

# US Water Recovery

<b>Non-Hazardous Manifest: Waste Water or Drums</b>		<b>Number:</b>	
1. Generator's EPA ID# (if applicable):		Waste ID Number:	
2. Generator's Name and Mailing Address: <i>KLM Environmental - S.P. 19 - LC 3855</i>		Phone ( )	
		P O #:	
3. Agent of Generator and Mailing Address: <i>KLM Environmental</i>		Phone ( )	
		P O #:	
4. Transporter Company Name: <i>KLM Environmental</i>		Phone ( )	
Truck & Trailer License Number:			
5. Transporter U.S. EPA ID#:			
6. Facility Name and Site Address: US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445		Mailing Address: US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445	
		Phone: (843) 797-3111	
		Fax: (843) 797-1884	
7. Facility U.S. EPA ID#:			
Start Level:	End Level:	Total Gallons:	Tank Number
8. U.S. DOT Description		Container	Unit
		No.	Type
a. Non-Hazardous, non-regulated waste water			
<i>LC 3855</i>			<i>1821.13 gallons</i>
<i>S.P. #19</i>			<i>81 (53) gallons</i>
9. Generator's Certification: I hereby declare that the contents of this consignment are not hazardous by definition or listing and are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina. I further certify that the contents of this consignment are as represented by the description contained on the Waste Profile Form previously submitted to and approved by the Designated Facility.			
Printed/Typed Name: <i>Mark Keller</i>		Signature: <i>[Signature]</i>	
		Date: <i>12/9/21</i>	
10. Transporter Acknowledgement of Receipt of Materials			
Printed/Typed Name: <i>Mark Keller</i>		Signature: <i>[Signature]</i>	
		Date: <i>12/9/21</i>	
11. Discrepancy Indication space:			
12. Facility Owner or Operator: Certification of Receipt of Materials			
Printed/Typed Name: <i>[Signature]</i>		Signature: <i>[Signature]</i>	
		Date: <i>12-9-21</i>	

White - Facility      Yellow - Office      Pink - Transporter      Blue - Generator

26662







MEMORANDUM

Date: January 19, 2022

To: Robert Cole, Manager  
Federal & State Site Assessment Section

From: Caitlin Reilly, Hydrogeologist  
Assessment & Non-Permitted Petroleum Section

Thru: Ashleigh Thrash, Manager  
Assessment & Non-Permitted Petroleum Section

**Subject: Referral of environmental condition**  
B & R 86 LLC Property, 104 Kirksey Dr E, Greenwood, SC  
Adjacent UST Permit #04785  
Adjacent NPP Permit #18814  
Greenwood County

A release was entered on October 29, 2020, NPP Permit# 18814, due to petroleum chemicals of concerns detected in a creek on the B & R 86 LLC property, this release remains open. Releases were declared on March 9, 2021 and October 1, 2021 at UST Permit# 04785, the facility adjacent to B & R 86 LLC property, both releases are still undergoing assessment and abatement.

On June 2, 2021, DHEC personnel met with Mr. Ronney Smith, the representative for B & R 86 LLC, and his legal counsel on his property to discuss an unidentified environmental concern previously encountered on the property. During the site visit DHEC personnel witnessed a black substance floating on the creek that seemed to exhibit properties atypical of gasoline. Subsequent to this site visit a trench was dug as part of the abatement actions for UST permit# 04785 and more of the unidentified black substance seeped into the trench. Additional field data, pictures, and correspondence are attached to this memo.

The UST division is referring the environmental condition to the Federal & State Site Assessment Section for review and additional investigation.

enc: Pictures  
Field Data  
Correspondence

To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>  
Cc: Thrash, Ashleigh <thrasham@dhec.sc.gov>

\*\*\* Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. \*\*\*

Caitlin,

As requested in the phone call this morning, I am providing my observations regarding the unknown black substance seeping into the trench area located on the Smith property. The trench was originally excavated by Mr. Smith in response to reports of gasoline in the drainage system that cuts across his property. The excavation work was done prior to KLM becoming involved in the project as originally, the source of the contamination had not been determined. Later the source was determined to be from UST # 04785 after Mr. Smith was directed to conduct his own sampling on the property which indicated the contamination was flowing across his property thus emanating from another source. During the course of our investigation at the site, and the SCDHEC's own observations in the original trench area, a black substance was found to be oozing into the excavation and floating upon the water contained therein. Recently, KLM completed an expansion of the original trench to intercept the free phase product and prevent it from entering the drainage canal system. During that excavation we noted a few sparse samples of what appeared to be asphalt and a few instances of chunks of coal in the excavation. The black substance continues to migrate into the waters of the trench. The substance has been observed by KLM and SCDHEC as being a sticky consistency when in its liquid state which it appears to remain while in the water. Once the substance is removed and allowed to dry, it becomes flaky and easily broken in to small thin sheets and eventually to dust if manipulated further. This substance has not been analyzed to determine what it is made of at this time. Laboratory work was performed on site using our SRI Instruments gas chromatograph, but the instrument is calibrated for very specific compounds found in gasoline which is what we were searching for during the Tier II Assessment. Non target analytes were at times noted in the chromatograms but the exact chemical composition of those peaks is unknown as our laboratory is not set up to identify those compounds. We do not have any additional information regarding the black substance seen in the trench at this time as it was not within our scope of work to investigate its composition nor its source. These are our observations made during many weeks of assessment and remedial activities conducted at the site, but with that focus being on the gasoline contamination across the Quick Pantry, Smith, and Foundry properties.

Thanks

Mark

Mark L. Keller, PG  
President

 KLM Environmental, LLC

PO Box 2704  
Goose Creek, SC 29445  
843-870-4285 Cell



RONNEY SMITH  
107 FAIRWAY LAKES RD  
GREENWOOD, SC 29649

JUL 08 2021



Re: Site Visit Summary  
104 E. Kirksey Dr., Greenwood, SC 29646  
Greenwood County  
Site ID #18814  
Release Confirmed October 29, 2020  
Site Visit conducted April 16, 2021  
Site Visit conducted June 2, 2021

Dear Mr. Smith,

The South Carolina Department of Health and Environmental Control (DHEC) has conducted the above referenced site visits at your property. The purpose of this letter is to summarize the site visits and what was discussed.

During the April 16, 2021 site visit conducted by UST project managers Malayika Vincent and Caitlin Reilly, an environmental concern was identified on your property that appears to be unrelated to the current release at UST permit #04785.

On June 2, 2021, DHEC personnel met with you and your legal counsel on-site to conduct a site visit and discuss the environmental concern. As discussed during the June 2, 2021 site visit, at the conclusion of the assessment activities on your property being conducted for the release at UST permit #04785, DHEC may request that additional assessment is conducted regarding the identified environmental concern on your property.

On all correspondence regarding this site, please reference Site ID #18814. Should you have any questions regarding this correspondence, you may contact me by phone at (803) 898-2818, by email at [tothdc@dhec.sc.gov](mailto:tothdc@dhec.sc.gov), or by fax at (803) 898-0673.

Sincerely,

  
Delaney Toth, Hydrogeologist  
Assessment & Non-Permitted Petroleum Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management

enc: Pictures from 4/16/21 and 6/2/21 site visits

cc: Chris McCluskey, Upstate EA Greenwood  
Greg Force, Force and Associates, Inc., 147 Vera Rd., Suite F, Lexington, SC 29072  
Technical file



# 86 LLC Property

Page Coordinates: 34 10'11.36, 82 8'33.26" W

Coordinates: 34 10'11" N, 82 8'34"W



"Creek Seepage"

"Black Spot"

Foundry Rd

ST# 04875

Earth

200 ft

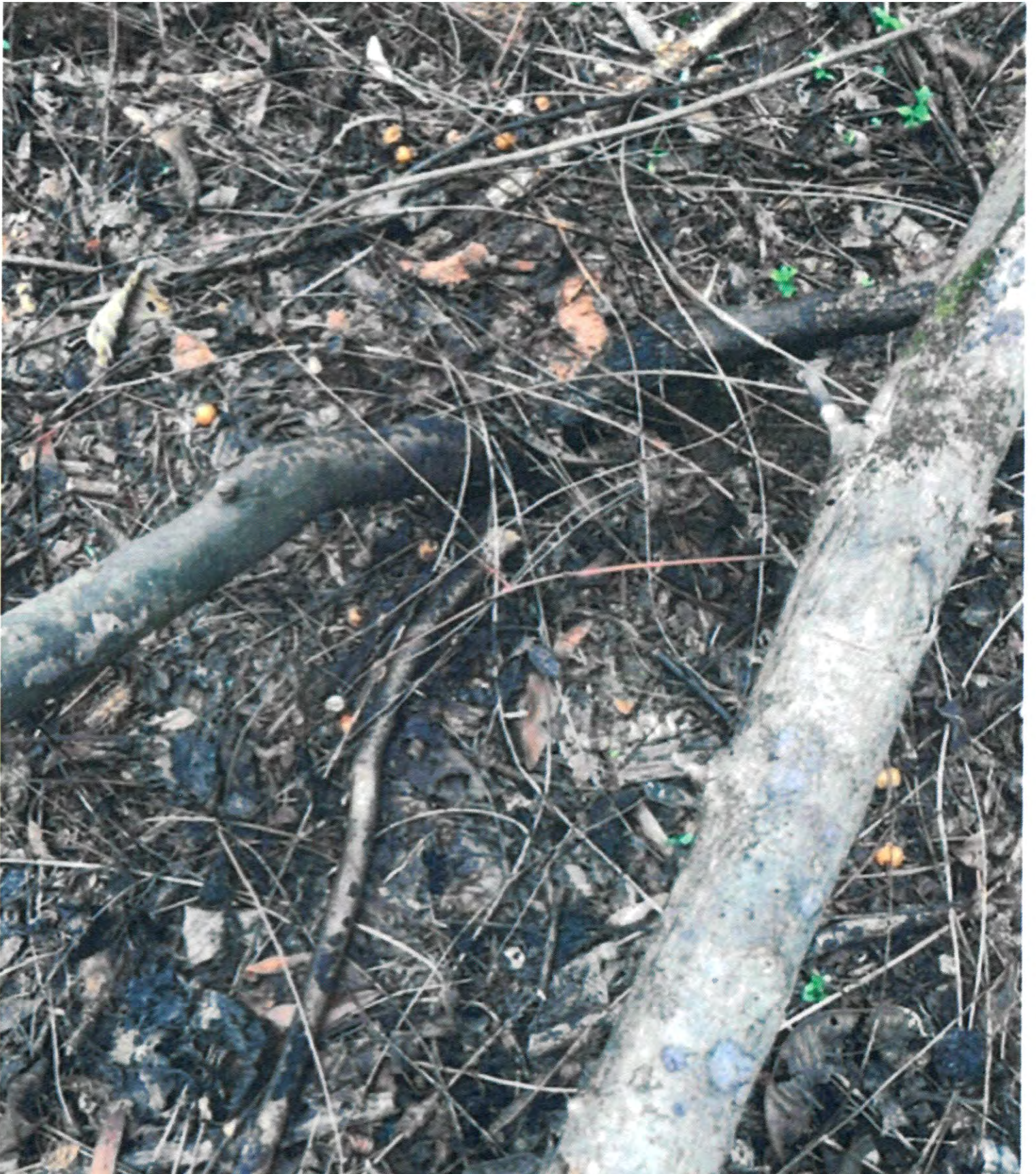




























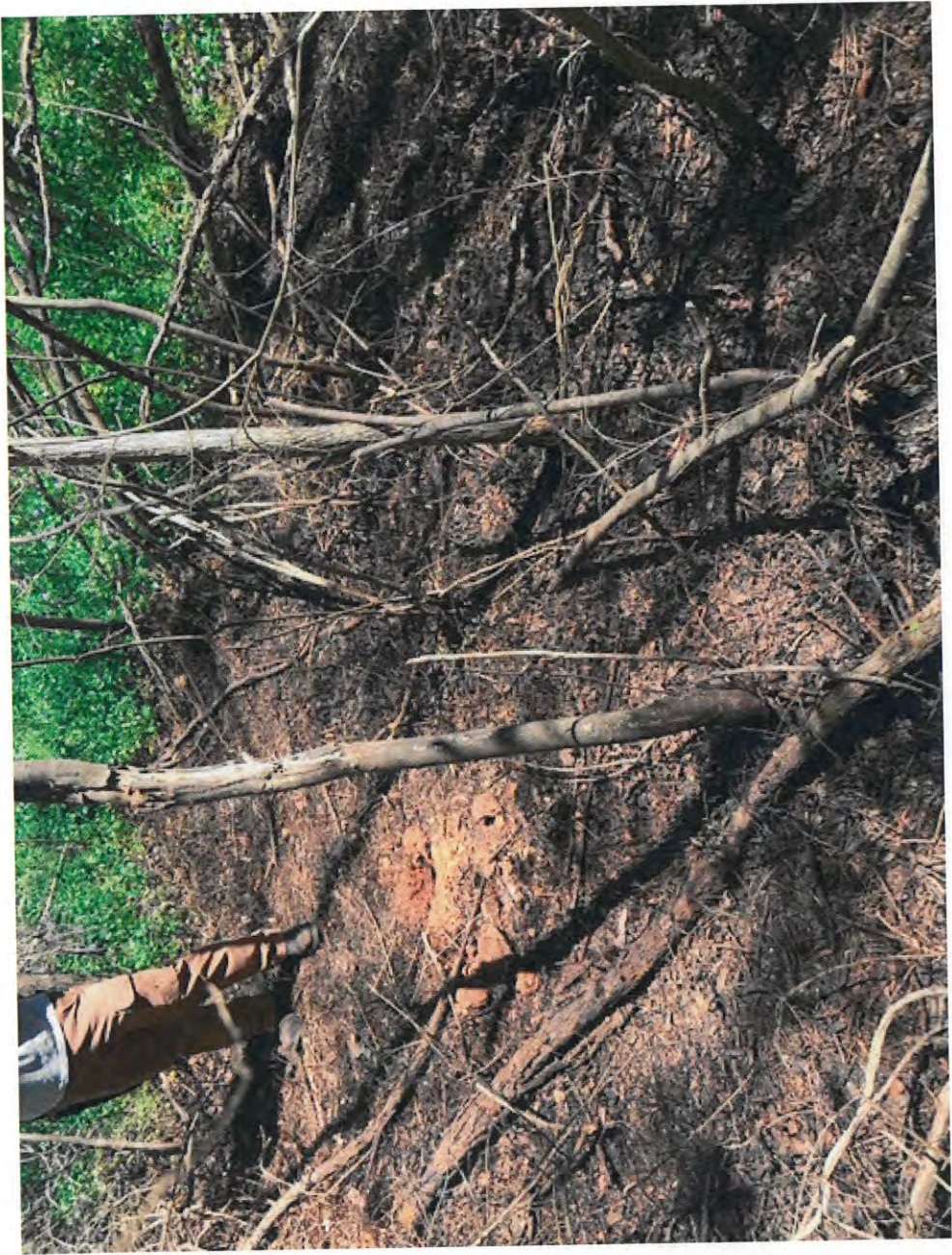


































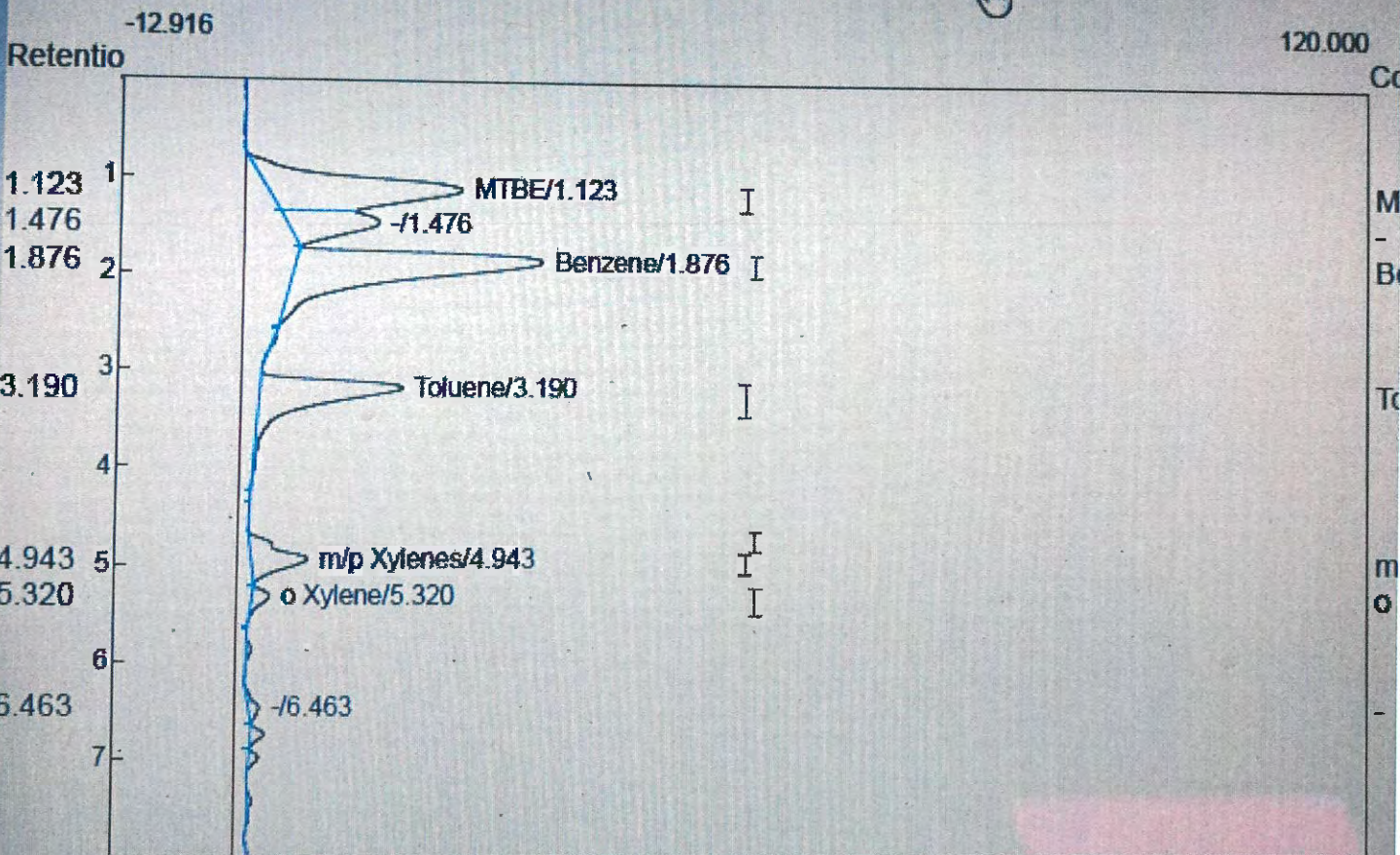
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GP-42	5/17/21	GW	25	2039.11	435.88	-	12.35	107.97	-
GP-43	5/18/21	GW	25	485.10	120.81	-	188.98	319.15	-
GP-44	5/18/21	GW	25	982.49	185.62	-	18.30	108.76	-
GP-45	5/18/21	GW	25	70.89	148.62	-	32.20	1239.96	-
GP-46	5/18/21	GW	25	77.24	158.93	-	22.58	-	-
GP-47	5/18/21	GW	25	-	-	-	23.71	-	-
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GP-83	5/19/21	GW	20	-	-	-	-	-	-
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Lab name: KLM Environmental, LLC  
Collected: 5/19/21  
Analysis date: 05/19/2021 12:47:48  
Method: Headspace Injection  
Description: PID - Channel 2  
Column: RESTEK 15METER MXT-1  
Carrier: HELIUM AT 5 PSI  
Sample: GP-71 - Quick Pantry #19

Temperature program:

Init temp Hold Ramp Final temp



Component Retention Area External Units



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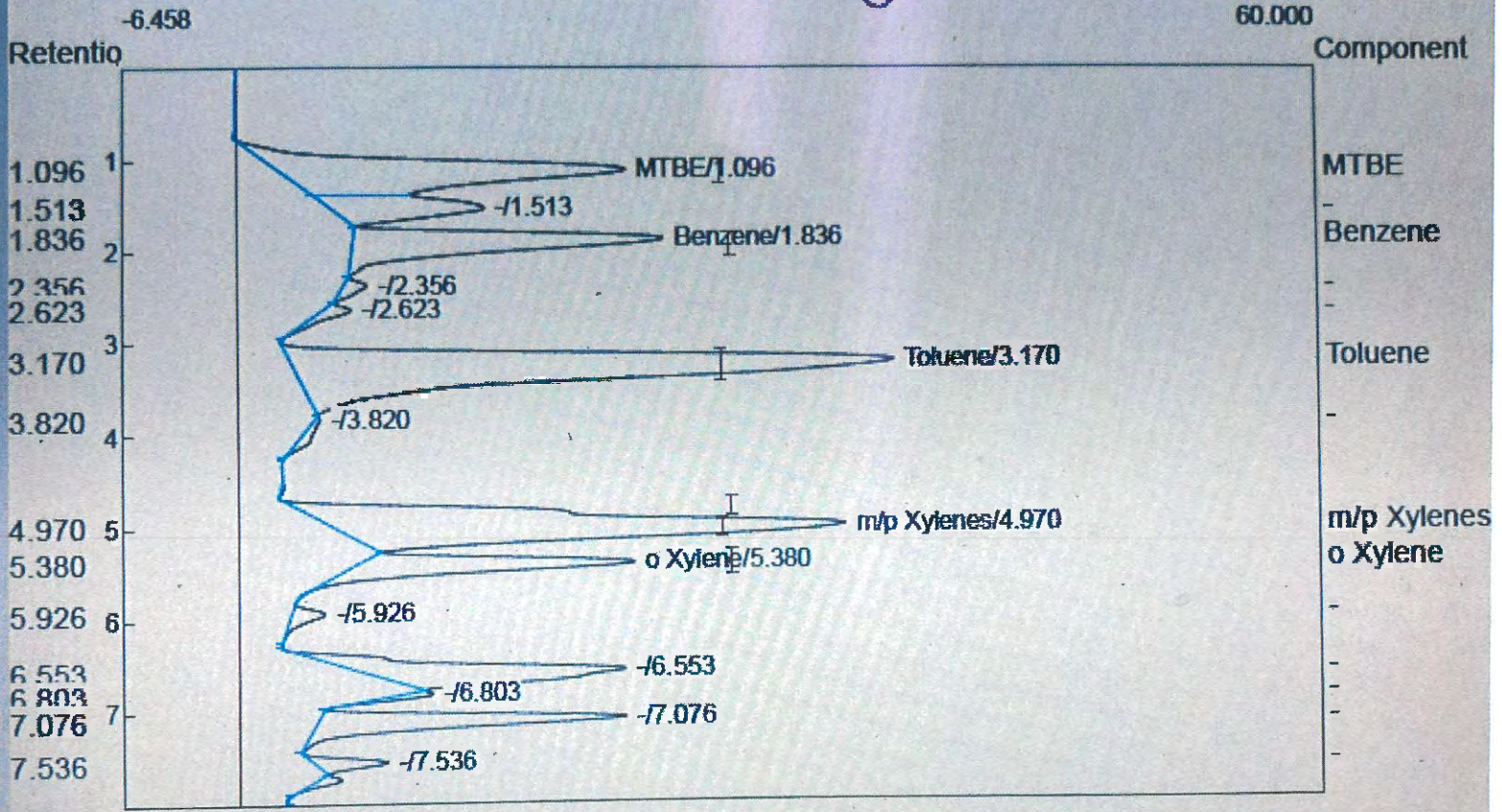




Method: Headspace Injection  
 Description: PID - Channel 2  
 Column: RESTEK 15METER MXT-1  
 Carrier: HELIUM AT 5 PSI  
 Sample: GP-72 - Quick Pantry #19

Temperature program:

Init temp    Hold    Ramp    Final temp



Component    Retention    Area    External    Units



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Panasonic

CF-31

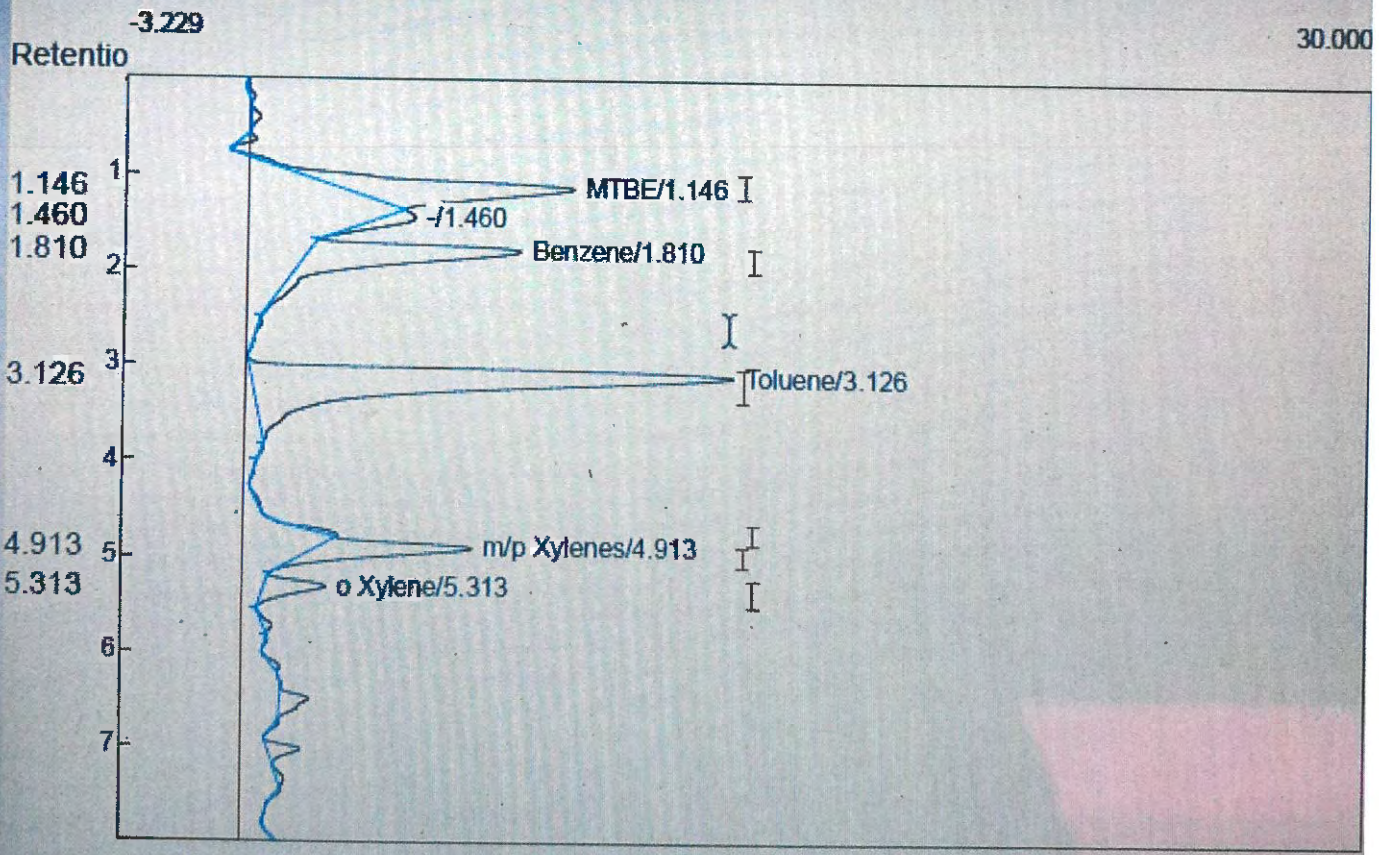
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Lab name: KLM Environmental, LLC  
 Collected: 5/19/21  
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 Column: RESTEK 15METER MXT-1  
 Carrier: HELIUM AT 5 PSI  
 Sample: GP-73 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp
-----------	------	------	------------



Component	Retention	Area	External	Units
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1 / 1



78.3%

Lab name: KLM Environmental, LLC

Collected: 5/24/21

Analysis date: 05/24/2021 14:13:11

Method: Headspace Injection

Description: PID - Channel 2

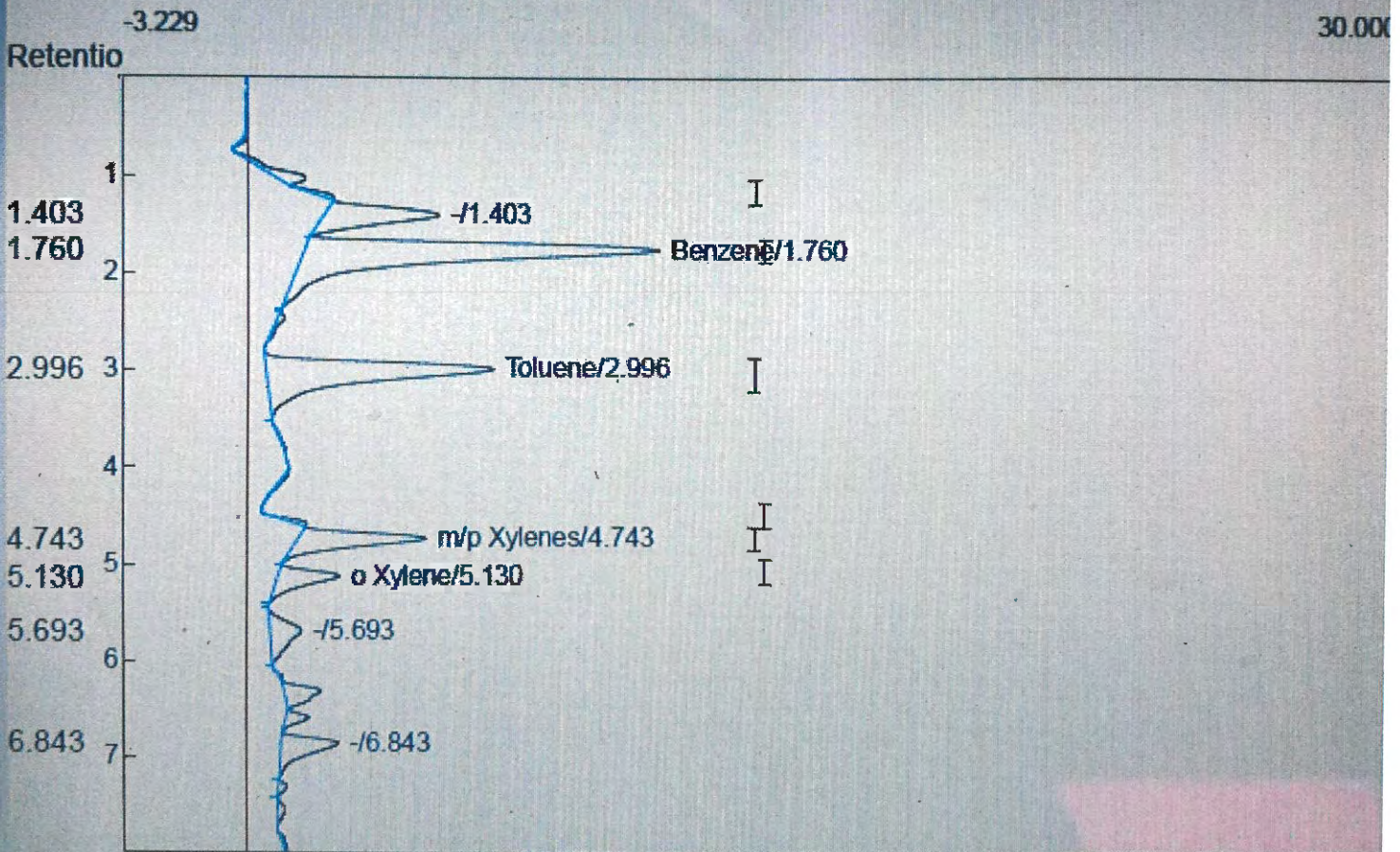
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Carrier: HELIUM AT 5 PSI

Sample: GP-112 - Quick Pantry #19

Temperature program:

Init temp	Hold	Ramp	Final temp
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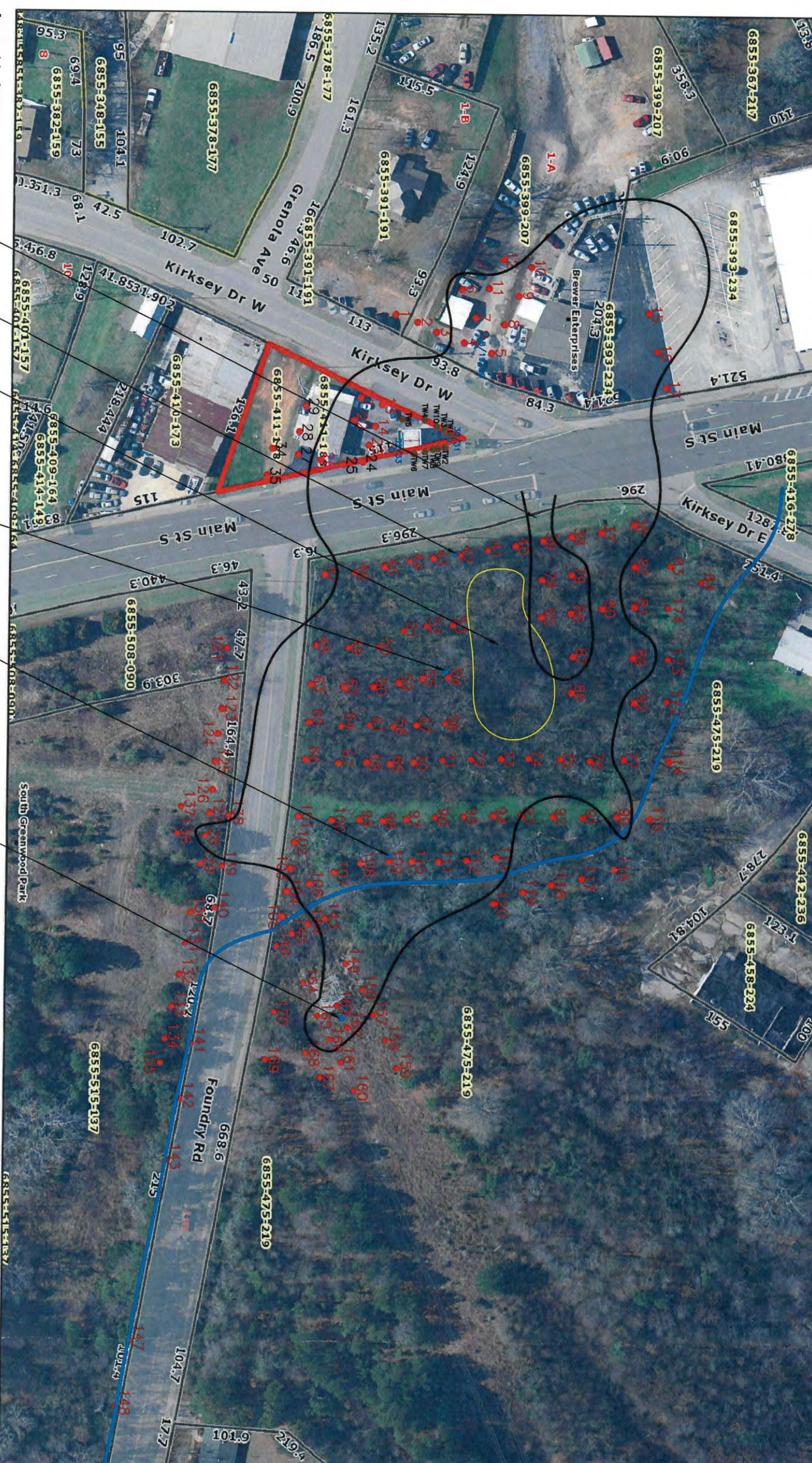
Component	Retention	Area	External	Units
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June 11, 2021

No Contamination

171D

See Map 2 for More Locations





## CD's Information

Date Received: 2/14/22

Permit Number: 04785

Project Manager: Caitlin Beilly

Contractor: KLM Environmental

Description: Additional Assessment

Docket Number: 135T Initials: \_\_\_\_\_

Scanned by: \_\_\_\_\_

Verified by: \_\_\_\_\_



**TIER II ADDENDUM**  
**Quick Pantry # 19**  
**Greenwood, South Carolina**  
**Site ID# 04785**



**KLM Environmental, LLC**

Phase I Phase II Underground Storage Tanks-Soil & Water Sampling-Well Installation  
PO Box 2704  
Goose Creek, SC 29445  
843-870-4285 Phone  
843-797-1893 Fax

February 8<sup>th</sup>, 2022

*Prepared for:*

**Mr. Caitlin Reilly**  
**Assessment Section**  
**SCDHEC-USMD**  
2600 Bull Street  
Columbia, SC 29201

*Prepared by:*

**KLM Environmental, LLC.**  
PO Box 2704  
Goose Creek, SC 29445  
(843) 870-4285  
UST Contractor # 345

**Project # 21547.2**



## SIGNATURE PAGE

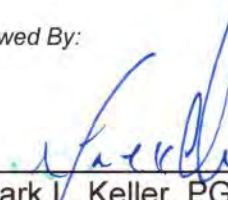
This report entitled "TIER II ADDENDUM" for Quick Pantry # 19 has been prepared at the request of and for the exclusive use of the South Carolina Department of Health and Environmental Control. It has been prepared and reviewed by the undersigned.

Prepared By:



Graham P. Robinson  
Hydrogeologist

Viewed By:



Mark L. Keller, PG  
President

2/10/22

Date





## TABLE OF CONTENTS

SECTION	DESCRIPTION	PAGE
1.0	INTRODUCTION _____	1
2.0	ASSESSMENT INFORMATION _____	4
2.1	Vertical and Horizontal Plume Delineation	
2.2	Well Installation / Abandonment Information	
2.3	Piezometric Data	
3.0	CONCLUSIONS _____	7
4.0	REFERENCES _____	8

## List of Figures

DESCRIPTION	FIGURE
GENERAL SITE LOCATION _____	1
SITE MAP _____	2
PROBE DELINEATION MAP _____	3A
FREE PRODUCT DELINEATION MAP _____	3B



## List of Appendices

DESCRIPTION	APPENDIX
FIGURES _____	A
LABORATORY DATA / SAMPLING SHEETS _____	B
TAX MAP _____	C
FIELD SCREENING LOGS _____	D
WELL LOGS _____	E
AQUIFER CALCULATIONS _____	F
DISPOSAL MANIFEST _____	G
ZONING INFORMATION _____	H
FATE AND TRANSPORT MODELING _____	I
ACCESS AGREEMENTS _____	J
CHECKLIST _____	K

## List of Tables

DESCRIPTION	TABLE
PROBE DELINEATION DATA _____	1
TEMPORARY WELL GROUNDWATER DATA _____	2



## **1.0 INTRODUCTION**

The Quick Pantry # 19 site is located at 1802 South Main Street in Greenwood, South Carolina. A general site location map is provided as Figure 1 in Appendix A. Figure 2 in Appendix A serves as the comprehensive site map. The property owner is SMVS Real Estate, LLC located at 1802 South Main Street in Greenwood, SC 29646. The UST responsible party is Bahuchar Mata, LLC located at 311 Oakmonte Circle in Greenwood, SC 29649; phone 864-378-6993. KLM Environmental is the Certified UST Site Rehabilitation Contractor performing the work (Certification # 345). KLM's address is PO Box 2704, Goose Creek, SC 29445; phone 843-870-4285. Analytical Environmental Services, Inc. is the certified laboratory used to analyze the samples for this work (Certification # 98016003). AES's main address is 3080 Presidential Drive, Atlanta, GA 30340, phone # 770-457-8177.

The Quick Pantry # 19 site is an active gasoline station surrounded by residential and commercial property. This site is zoned General Commercial by Greenwood County. A copy of the zoning information can be found on the Greenwood County website. The site currently contains three underground storage tanks consisting of a 4,000-gallon gasoline tank for regular unleaded gasoline, a 4,000-gallon tank for premium gasoline, and a 5,000-gallon gasoline tank for regular unleaded gasoline. The 4,000-gallon premium tank and the 5,000 gallon RUL tank are both in use, but the 4,000-gallon RUL tank was abandoned in place in January of 2022. There are two dispensers associated with these tanks.

The subject site is primarily underlain by a sand clay mixture that transitions from sandy loam to clay loam and is further underlain by Charlotte Terrane meta-igneous rocks. A geologic paper for reference is provided in Appendix C (Dennis & Wright, 1997).

The investigation of this site was prompted by reports of a petroleum smell near the housing complex on Foundry Road. The release that prompted this assessment was reported on March 9<sup>th</sup>, 2021 in response to a failed tank tightness test and the presence of free product around the tank pit. KLM Environmental was tasked with the emergency abatement of the release, and abatement actions were initiated by shutting down the leaking tank and installing a skimming system of oil-absorbent booms to catch the petroleum on the creek's surface. After the installation of the boom system, KLM Environmental began several long duration Aggressive Fluid and Vapor Recovery (AFVR) events along with coordination with the SCDHEC for the Tier II Assessment. Immediately prior to the



completion of the Tier II report an additional petroleum release occurred. Due to a misunderstanding or miscommunication, the fuel supplier for the Quick Pantry # 19 filled the empty, out-of-service underground storage tank with 3,400 gallons of gasoline. Over 500 gallons had leaked out before the fuel supplier returned to transfer the fuel to the proper tank. The potential new release was reported on September 28<sup>th</sup>, 2021 by KLM Environmental after the store owner made contact to be advised on what to do. KLM Environmental has commenced abatement actions for that release, including two 96-hour AFVR events in November of 2021. To abate both releases from impacting the creek, the installation of a trench downgradient from the contaminant plume to intercept the product before it migrates into the creek was completed in December of 2021 separate from this assessment addendum.

KLM Environmental previously completed the installation of a boom skimming system for the site in March of 2021, as well as three AFVR events in April, May, and August of 2021. Drain inspections were also completed for two separate storm drains on September 2<sup>nd</sup> and September 30<sup>th</sup>. The initial drain inspection was done in an attempt to determine the source of free phase product dripping from an unidentified storm drainpipe. The second drain inspection was performed on the storm drain which connects to the open creek on the Smith property and empties into the pond on the City of Greenwood property. This was performed to determine if the storm drain continued down the edge of foundry road and intersected the open-air ditch or continued underground and intersected the pond located on the City of Greenwood property known as the Foundry site. As a result of these inspections, it was surmised that the free product entering the drainage system has been transmitted to the pond area and the pond may be a secondary source for contaminants. The Tier II Assessment was completed in October of 2021, and after reviewing the Tier II report, the SCDHEC Project Manager requested that KLM conduct an additional assessment of the Foundry site around the drainage pond. For a list of previous work on this site, please refer to Section 4.0 of this report. This report serves to provide the results from the Tier II Assessment Addendum conducted on the site as requested by the SCDHEC Project Manager.



## 2.0 ASSESSMENT INFORMATION

### 2.1 Vertical and Horizontal Plume Delineation

Delineation of the contaminant plume was accomplished with the use of a Geoprobe model 7822 direct push rig with dynamic hammering capabilities. The temporary wells were installed by Mark Keller (SC Driller # 1554) with Grandview Holdings, LLC. Groundwater samples were collected and analyzed using a mobile gas chromatograph model SRI 310C operated by KLM Environmental, LLC field personnel. The unit is capable of detecting and speciating compounds to 1 part per billion. The probe locations and temporary well locations are shown on Figures 3A and 3B.

Due to the anticipated presence of free product on the property, KLM installed eight 1-inch diameter temporary monitoring wells in order to assess the extent of the free product plume on the Foundry site. Those wells were allowed to equilibrate for 48 hours prior to gauging in an attempt to ascertain product thickness. No product was detected. It was determined that the temporary wells needed to be left in place to allow sufficient time for any free product to enter the wells. KLM had experience with extremely slow infiltration rates during the initial Tier II Assessment when attempting to delineate the free product at the site. The wells were gauged multiple times with the last event occurring on January 24<sup>th</sup>, 2022, the day the wells were abandoned. Before abandoning the temporary wells, KLM personnel collected water samples for field screening from each well and stored them on wet ice. These samples were analyzed by KLM personnel using a mobile gas chromatograph, and the results are included in Table 1. During the initial work conducted December 13<sup>th</sup> – 14<sup>th</sup>, 2022, KLM installed 22 temporary points for groundwater samples around the drainage pond area. Those samples were analyzed using the gas chromatograph described previously, while on site providing real time data. KLM submitted those results to the SCDHEC Project Manager along with the results from field screening of the temporary wells collected on 1/24/22. As this property is currently subject to a corrective action plan under the Brownfields section which includes installing a cap to isolate the contaminants on that site, well installation is currently not approved.

The boring locations and field screening results are identified on Figure 3A in Appendix A and the field screening results are provided in Table 1 and in Appendix D. The temporary well locations and free product delineation are provided in Figure 3B. The well logs for all temporary wells are provided in Appendix D. Results for the probe delineation are as follows:



**TABLE 1**  
Probe Delineation Data  
Quick Pantry # 19  
Greenwood, SC

Sample ID	Date	Matrix	Depth	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MTBE (ppb)	Comments
RBSL	--	GW	--	5	1000	700	10000	40	
GP-1**	12/13/21	GW	10	**	**	**	**	**	
GP-1A	12/14/21	GW	15	***	***	***	***	***	
GP-1B	12/14/21	GW	20	--	--	--	--	--	NTA
GP-2	12/13/21	GW	10	--	--	--	--	--	NTA
GP-3**	12/13/21	GW	10	**	**	**	**	**	
GP-3A	12/14/21	GW	15	--	--	--	--	--	NTA
GP-4**	12/13/21	GW	10	--	--	--	--	--	NTA
GP-5**	12/13/21	GW	10	**	**	**	**	**	
GP-5A	12/14/21	GW	15	***	***	***	***	***	
GP-5B	12/14/21	GW	20	--	--	--	--	--	NTA
GP-6	12/14/21	GW	15	1.92	--	48.60	30.69	84.68	NTA
GP-7	12/14/21	GW	15	--	--	25.61	13.15	--	NTA
GP-8	12/14/21	GW	15	--	--	15.44	3.31	--	NTA
GP-9	12/14/21	GW	18	--	--	52.68	36.67		refusal
GP-10	12/14/21	GW	15	--	--	--	1.60	--	NTA
GP-11	12/14/21	GW	15	--	--	--	3.09	--	NTA
GP-12	12/14/21	GW	15	--	--	32.26	20.86	42.94	NTA
GP-13	12/14/21	GW	15	--	--	--	1.23	8.09	NTA
GP-14	12/14/21	GW	20	--	--	47.95	32.16	--	NTA
GP-15	12/14/21	GW	20	--	--	--	1.65	--	NTA
GP-16	12/14/21	GW	15	--	--	--	--	--	NTA
GP-17	12/14/21	GW	15	--	--	--	1.76	--	NTA
GP-18	12/14/21	GW	20	--	--	43.83	31.95	--	NTA
GP-19D	12/14/21	GW	25	--	--	--	--	--	NTA
GP-20D	12/14/21	GW	30	--	--	18.66	43.67	--	NTA
GP-21D	12/14/21	GW	20	--	--	--	--	15.14	NTA
G-22D	12/14/21	GW	25	--	--	--	1.30	--	refusal
Drain	12/14/21	SW	--	--	--	--	--	--	NTA
Pond	12/14/21	SW	--	--	--	--	--	--	



**TABLE 1 Continued**  
**Probe Delineation Data**  
**Quick Pantry # 19**  
**Greenwood, SC**

Sample ID	Date	Matrix	Depth	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MTBE (ppb)	Comments
RBSL	--	GW	--	5	1000	700	10000	40	
TW-1A	12/13/21	GW	11	*	*	*	*	*	Concrete
TW-1B	12/13/21	GW	11	*	*	*	*	*	Concrete
TW-1C	12/13/21	GW	15	--	--	--	--	--	1/28/22
TW-2	12/13/21	GW	15	--	--	--	--	--	1/28/22
TW-3	12/13/21	GW	15	732.73	1467.74	411.51	1480.28	853.22	1/28/22
TW-4	12/13/21	GW	15	--	--	--	--	--	1/28/22
TW-5	12/13/21	GW	15	--	--	--	1.29	--	1/28/22
TW-6	12/13/21	GW	15	621.07	1195.37	60.14	849.09	1538.67	1/28/22
TW-7	12/13/21	GW	15	--	--	--	--	10.65	1/28/22
TW-8	12/13/21	GW	15	1.82	13.77	69.60	12.16	23.75	1/28/22

\*Refusal due to concrete strike at 11 feet. Changed locations on each attempt.

NTA = Non Target Analyte

\*\* No water in these sample locations after 1.5 hours. Left the site to allow samplers to sit overnight. After 17.5 hours only GP-4 had water. It was closest to the pond. Probe depth increased to 15 feet (screened 11-15). GP-1A and GP-5A were allowed to sit for 7 hours and no water was present. Drilled again to 20 feet at end of day 12/14/21. Water was recovered and the samples analyzed.

GP-4 = contaminant peaks visible but below effective levels. NTA also present.

TW wells sampled 1/24/22 then abandoned after gauging. No free product. Analyzed 1/28/22.

## 2.2 Well Installation/Abandonment Information

The SCDHEC Project Manager coordinated with the City of Greenwood and decided to postpone the installation of more permanent monitoring wells on the Foundry site. No permanent wells were installed as part of this assessment. KLM Environmental mobilized on January 24<sup>th</sup>, 2022 to abandon the temporary monitoring wells on site. Each temporary well was gauged and a sample was collected for field screening prior to abandonment. The wells were removed and the annulus was filled with grout from the bottom to land surface. SCDHEC personnel were on site to observe these activities. The results of the field screening for the temporary wells are included in Table 1 and in Figure 3A, and the groundwater level data is included in Table 2.



2.3 Piezometric Data

Figure 2 in Appendix A serves as the comprehensive site map showing the locations of the 25 monitoring wells, 4 telescoping deep wells, 3 recovery wells, and 6 surface waters. Figure 3B in Appendix A depicts the location of each temporary monitoring well and the results of the field screening. Depth to groundwater data for all temporary monitoring wells associated with this assessment at the site can be found in Table 2.

Results for the temporary monitoring well gauging are as follows:

<b>TABLE 2</b> <b>Temporary Well Groundwater Data (feet)</b> <b>Quick Pantry # 19</b> <b>Greenwood, SC</b>					
Monitoring Well	Date	Screened Interval	TOC to FP	TOC to GW	FP Thickness
TW-1	12/15/21	5-15	--	11.44	--
	1/24/22		--	10.90	--
TW-2	12/15/21	5-15	--	10.22	--
	1/24/22		--	7.73	--
TW-3	12/15/21	5-15	--	11.60	--
	1/24/22		--	8.81	--
TW-4	12/15/21	5-15	--	10.74	--
	1/24/22		--	7.56	--
TW-5	12/15/21	5-15	--	9.60	--
	1/24/22		--	7.08	--
TW-6	12/15/21	5-15	--	10.86	--
	1/24/22		--	8.12	--
TW-7	12/15/21	5-15	--	10.24	--
	1/24/22		--	7.70	--
TW-8	12/15/21	5-15	--	10.83	--
	1/24/22		--	7.31	--
MW-14	12/15/21	5-15	10.77	11.54	<b>0.77</b>
	1/24/22		8.20	8.41	<b>0.21</b>

Depths to fluid measurements were collected relative to the top of casing for each well. A hydrocarbon interface probe capable of detecting and measuring a hydrocarbon product thickness of 0.01 foot or 1/8 inch was used for depth to fluid measurements.



### **3.0 CONCLUSIONS**

Results from the contamination delineation indicate contaminants exist on the Foundry site in excess of the Risk Based Screening Levels (RBSLs) as established by the SCDHEC. Free product was present in monitoring well MW-14, near the location of the temporary wells, but no temporary wells contained free product throughout this assessment. Contaminants above the RBSLs were found in temporary wells TW-3 and TW-6, and in groundwater probe points GP-6 and GP-12. The plume on the Foundry site is defined by the temporary points but permanent monitoring wells have not been approved as explained previously in this report.

For the ongoing threat of contaminants continuing to migrate into the creek and further migrate into the storm drain system on the Foundry site, KLM recommends addressing the source area and subsequently each of the 3 lines of wells KLM installed during the Tier II to intercept the contaminant plume. That would entail performing a series of long duration Aggressive Fluid Vapor Recovery (AFVR) events at the Quick Pantry # 19 site on the installed recovery wells in order to lower the contaminant levels on site. Following these events, AFVR events should be conducted on each row of wells moving downgradient towards the creek after each 4 event set. KLM proposes to use hard piping and vacuum hose to reach wells along each line of free product and connect them to the vacuum unit. Thus far, a total of 1061.11 gallons of free product, 1162.82 gallons of product as vapor, and a total of 16,489.54 gallons of contaminated ground water have been recovered during only six events at the site. The recovery efficiency has proven excellent at this site and these events should continue without delay.



## 4.0 REFERENCES

KLM Environmental, LLC, *Tank Closure Report*, February 2022.

KLM Environmental, LLC, *AFVR Report*, January 2022.

KLM Environmental, LLC, *Trench Excavation Report*, January 2022.

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KLM Environmental, LLC, *Tier II Report*, October 2021.

KLM Environmental, LLC, *AFVR Report*, August 2021.

KLM Environmental, LLC, *AFVR Report*, June 2021.

KLM Environmental, LLC, *AFVR Report*, April 2021.

KLM Environmental, LLC, *Initial Containment Boom Report*, April 2021.

*The Carolina Terrain in Northwestern South Carolina, USA*. Tectonics Volume 16, No. 3, Pages 460-473. Allen Dennis with USC Aiken & James Wright with Rice University, June 1997.

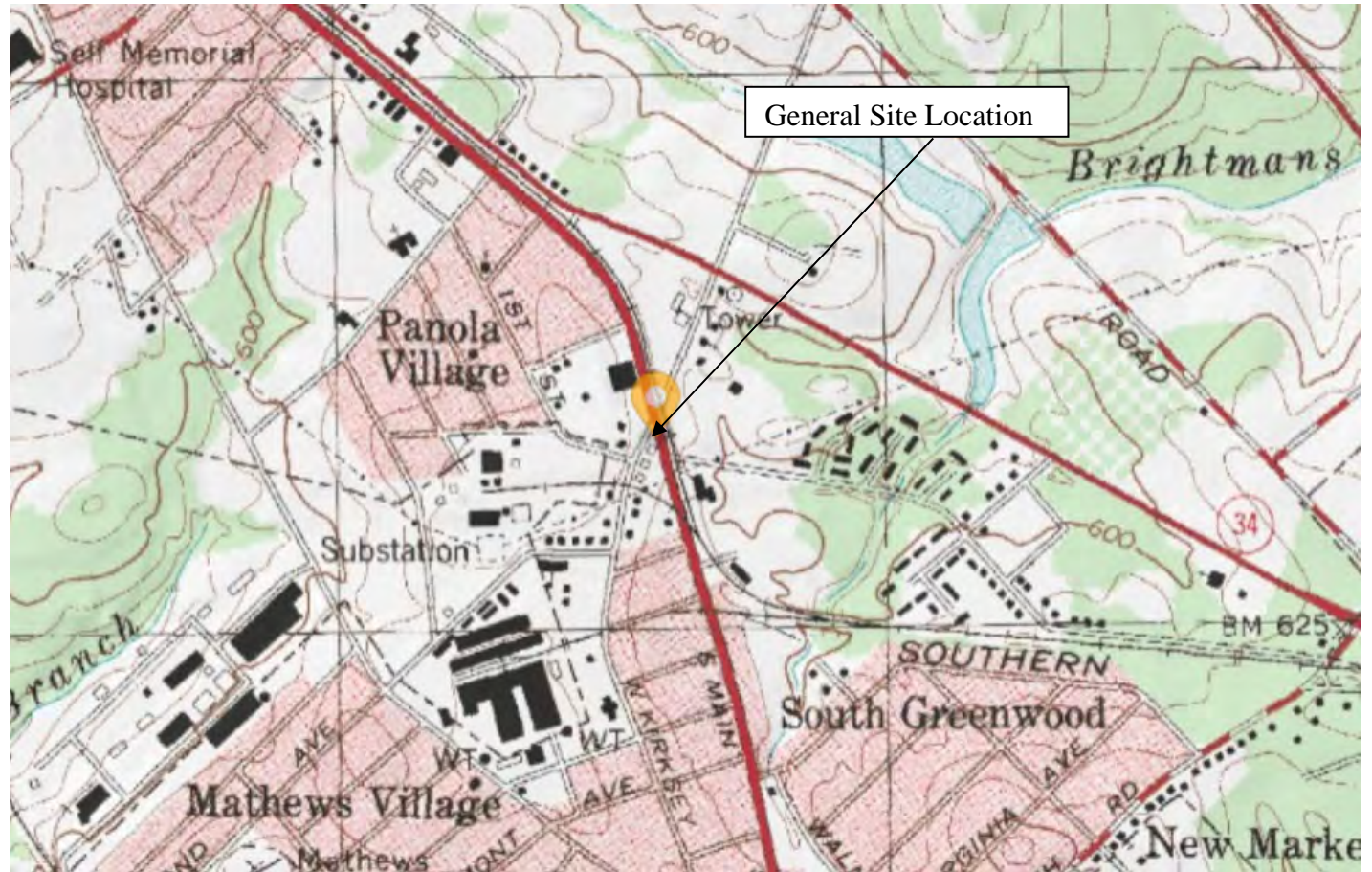
South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management Underground Storage Tank Program, *South Carolina Quality Assurance Program Plan Revision 4.0*, July 2020.



## **APPENDIX A**

### **Figures**





**KLM Environmental, LLC**

Phase I-Phase II-Underground Storage Tanks-Soil & Water Sampling-Well Installation

Figure 1

USGS Map

Quick Pantry # 19

Greenwood, SC

UST # 04785



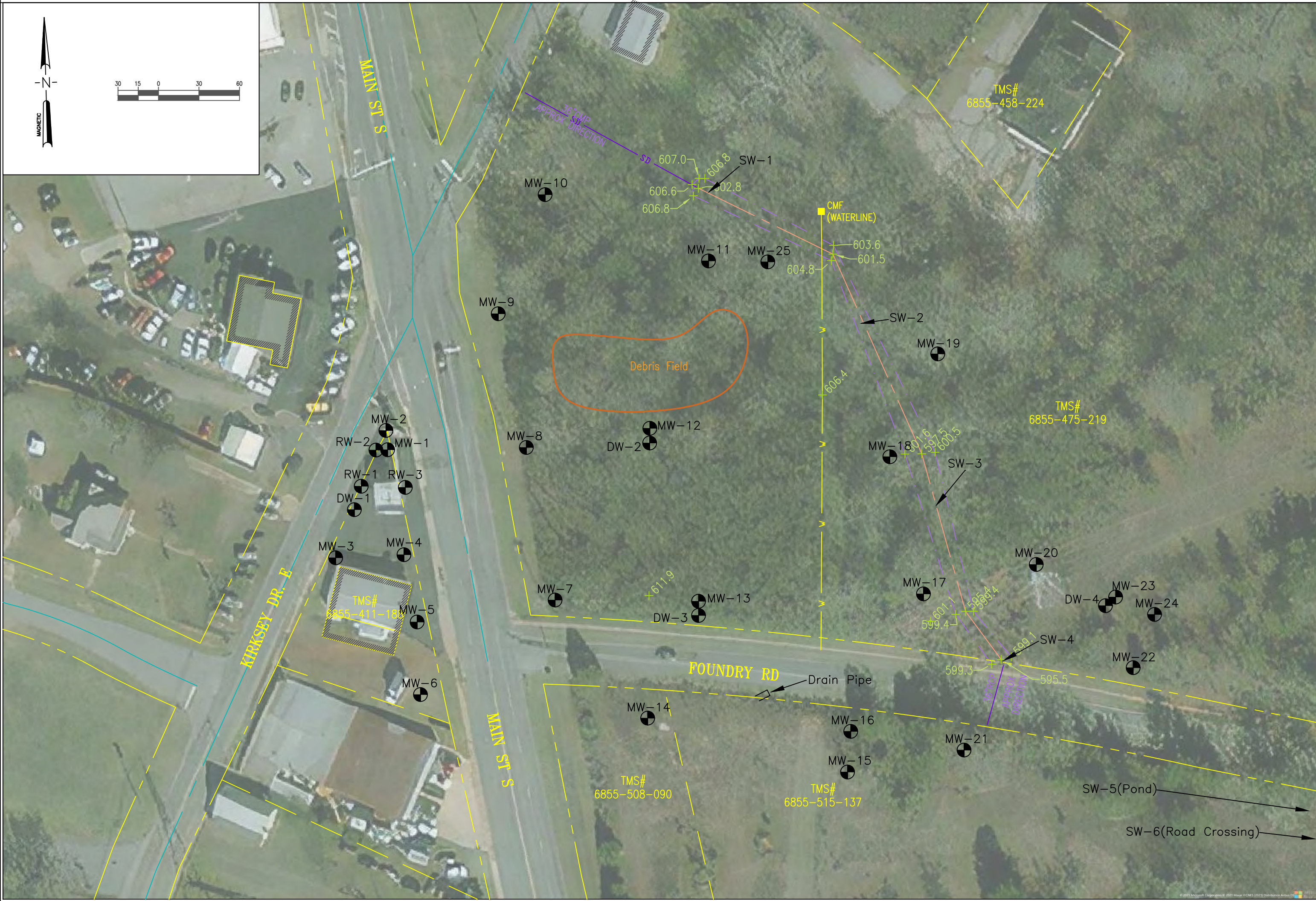
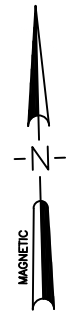


FIGURE 2

SITE MAP

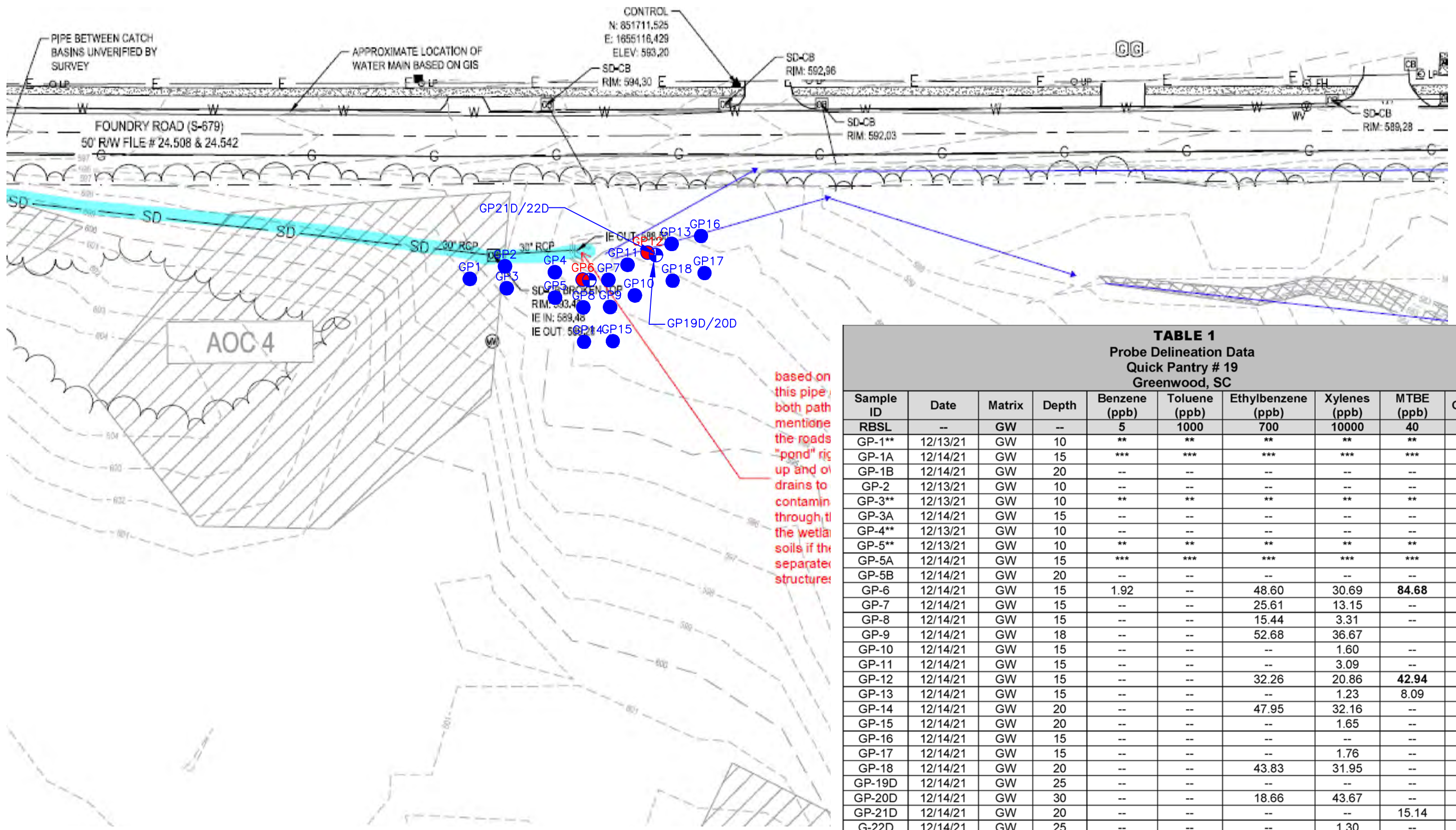
QUICK PANTRY # 19

GREENWOOD, SC UST # 04785



**KLM Environmental, LLC**  
Phase I-Phase II-Underground Storage Tanks-Soil & Water Sampling-Well Installation





LEGEND

- GP1 SHALLOW PROBE LOCATION
- ⊕ GP19D DEEP PROBE LOCATION
- RED INDICATES CONTAMINANT ABOVE RBSL

**TABLE 1**  
Probe Delineation Data  
Quick Pantry # 19  
Greenwood, SC

Sample ID	Date	Matrix	Depth	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MTBE (ppb)	Comments
RBSL	--	GW	--	5	1000	700	10000	40	
GP-1**	12/13/21	GW	10	**	**	**	**	**	
GP-1A	12/14/21	GW	15	***	***	***	***	***	
GP-1B	12/14/21	GW	20	--	--	--	--	--	NTA
GP-2	12/13/21	GW	10	--	--	--	--	--	NTA
GP-3**	12/13/21	GW	10	**	**	**	**	**	
GP-3A	12/14/21	GW	15	--	--	--	--	--	NTA
GP-4**	12/13/21	GW	10	--	--	--	--	--	NTA
GP-5**	12/13/21	GW	10	**	**	**	**	**	
GP-5A	12/14/21	GW	15	***	***	***	***	***	
GP-5B	12/14/21	GW	20	--	--	--	--	--	NTA
GP-6	12/14/21	GW	15	1.92	--	48.60	30.69	84.68	NTA
GP-7	12/14/21	GW	15	--	--	25.61	13.15	--	NTA
GP-8	12/14/21	GW	15	--	--	15.44	3.31	--	NTA
GP-9	12/14/21	GW	18	--	--	52.68	36.67	--	refusal
GP-10	12/14/21	GW	15	--	--	--	1.60	--	NTA
GP-11	12/14/21	GW	15	--	--	--	3.09	--	NTA
GP-12	12/14/21	GW	15	--	--	32.26	20.86	42.94	NTA
GP-13	12/14/21	GW	15	--	--	--	1.23	8.09	NTA
GP-14	12/14/21	GW	20	--	--	47.95	32.16	--	NTA
GP-15	12/14/21	GW	20	--	--	--	1.65	--	NTA
GP-16	12/14/21	GW	15	--	--	--	--	--	NTA
GP-17	12/14/21	GW	15	--	--	--	1.76	--	NTA
GP-18	12/14/21	GW	20	--	--	43.83	31.95	--	NTA
GP-19D	12/14/21	GW	25	--	--	--	--	--	NTA
GP-20D	12/14/21	GW	30	--	--	18.66	43.67	--	NTA
GP-21D	12/14/21	GW	20	--	--	--	--	15.14	NTA
G-22D	12/14/21	GW	25	--	--	--	1.30	--	refusal
Drain	12/14/21	SW	--	--	--	--	--	--	NTA
Pond	12/14/21	SW	--	--	--	--	--	--	
TW-1A	12/13/21	GW	11	*	*	*	*	*	Concrete
TW-1B	12/13/21	GW	11	*	*	*	*	*	Concrete
TW-1C	12/13/21	GW	15	--	--	--	--	--	1/28/22
TW-2	12/13/21	GW	15	--	--	--	--	--	1/28/22
TW-3	12/13/21	GW	15	732.73	1467.74	411.51	1480.28	853.22	1/28/22
TW-4	12/13/21	GW	15	--	--	--	--	--	1/28/22
TW-5	12/13/21	GW	15	--	--	--	1.29	--	1/28/22
TW-6	12/13/21	GW	15	621.07	1195.37	60.14	849.09	1538.67	1/28/22
TW-7	12/13/21	GW	15	--	--	--	--	10.65	1/28/22
TW-8	12/13/21	GW	15	1.82	13.77	69.60	12.16	23.75	1/28/22



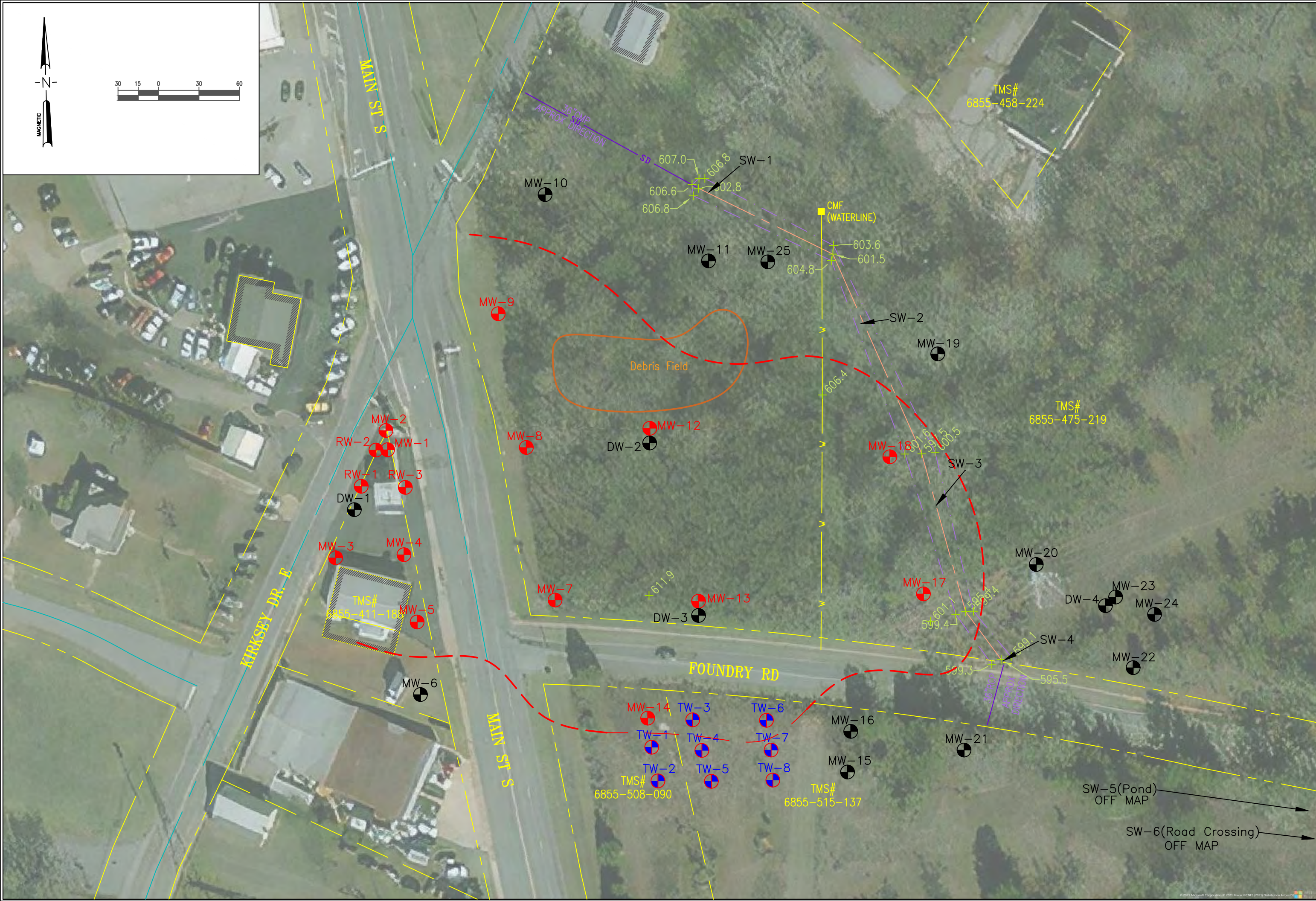
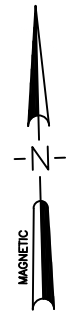


FIGURE 3B

FREE PRODUCT TEMPORARY WELLS  
QUICK PANTRY # 19  
GREENWOOD, SC UST # 04785



**KLM Environmental, LLC**  
Phase I: Phase II: Underground Storage Tanks Soil & Water Sampling-Well Installation



## **APPENDIX B**

### **Laboratory Data / Sampling Sheets**



## **APPENDIX C**

### **Tax Map / Regional Geology**



## **APPENDIX D**

### **Field Screening Logs**



Lab name: KLM Environmental, LLC

Collected: 12/13/21

Analysis date: 12/13/2021 15:38:51

Method: Headspace Injection

Description: PID - Channel 1

Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um

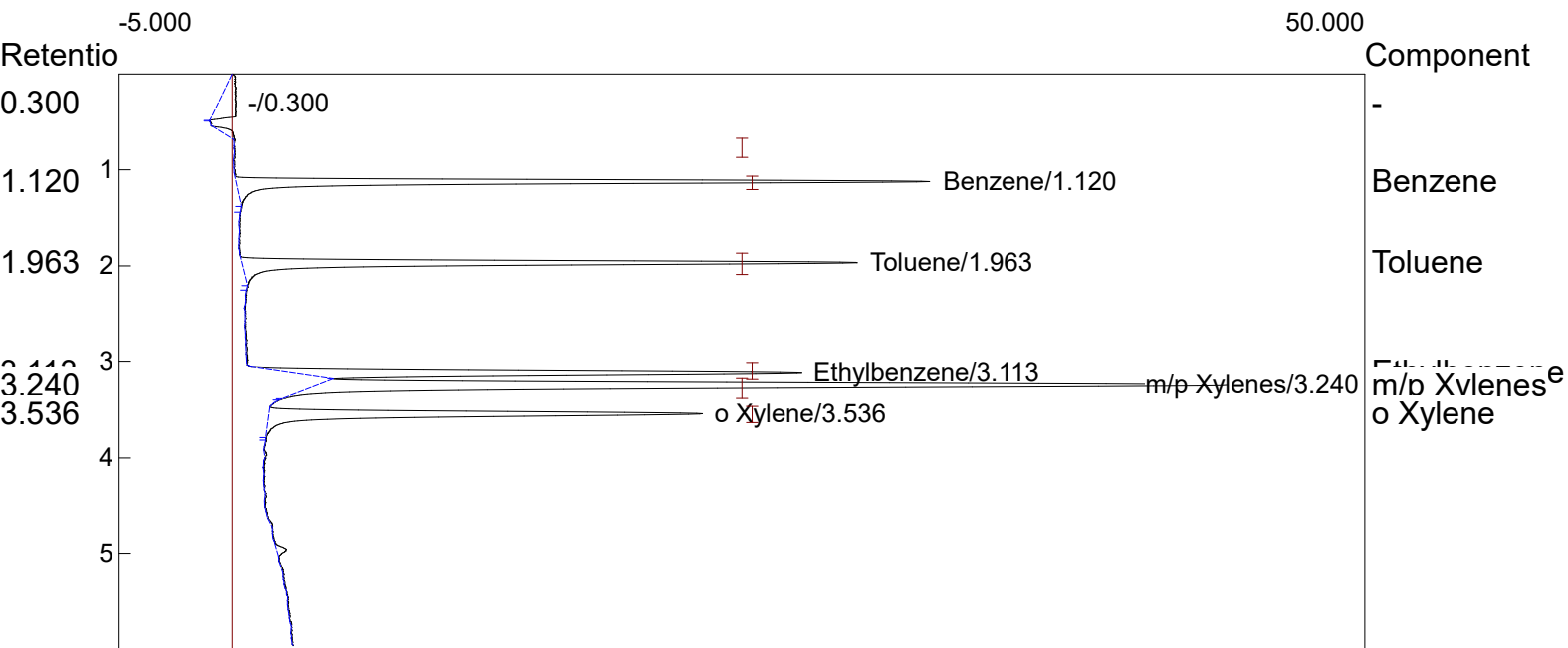
Carrier: He@ 4.2 PSI

Sample: BTEX Cal - QP#19

Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00



Component	Retention	Area	External	Units
Benzene	1.120	92.4924	200.0000	ppb
Toluene	1.963	91.3260	200.0000	ppb
Ethylbenzene	3.113	73.3668	200.0000	ppb
m/p Xylenes	3.240	151.7364	200.0000	ppb
o Xylene	3.536	72.5862	200.0000	ppb
		481.5078	1000.0000	



Lab name: KLM Environmental, LLC

Collected: 12/13/21

Analysis date: 12/13/2021 15:27:37

Method: Headspace Injection

Description: PID - Channel 1

Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um

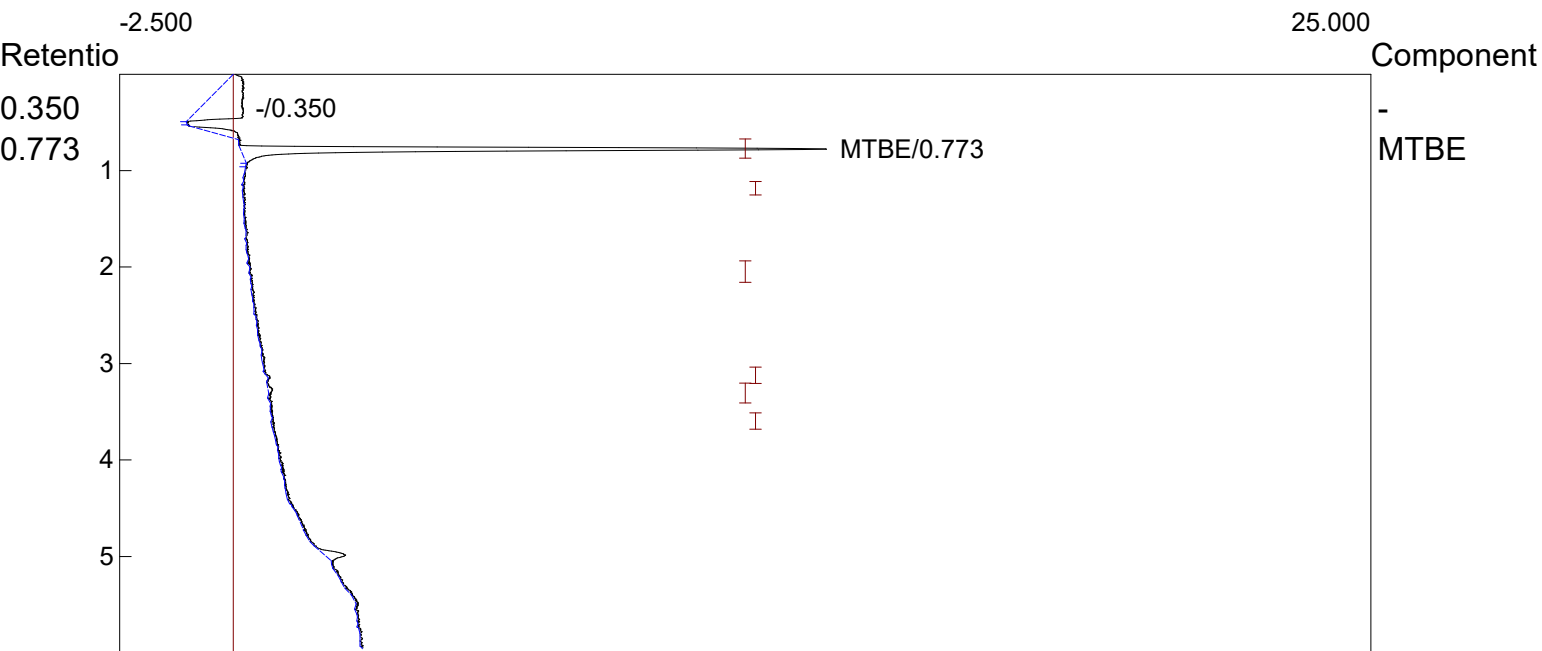
Carrier: He@ 4.2 PSI

Sample: MTBE Cal - QP#19

Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00



Component	Retention	Area	External	Units
MTBE	0.773	33.3214	200.0000	ppb
		33.3214	200.0000	



Lab name: KLM Environmental, LLC

Collected: 12/14/21

Analysis date: 12/14/2021 16:52:33

Method: Headspace Injection

Description: PID - Channel 1

Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um

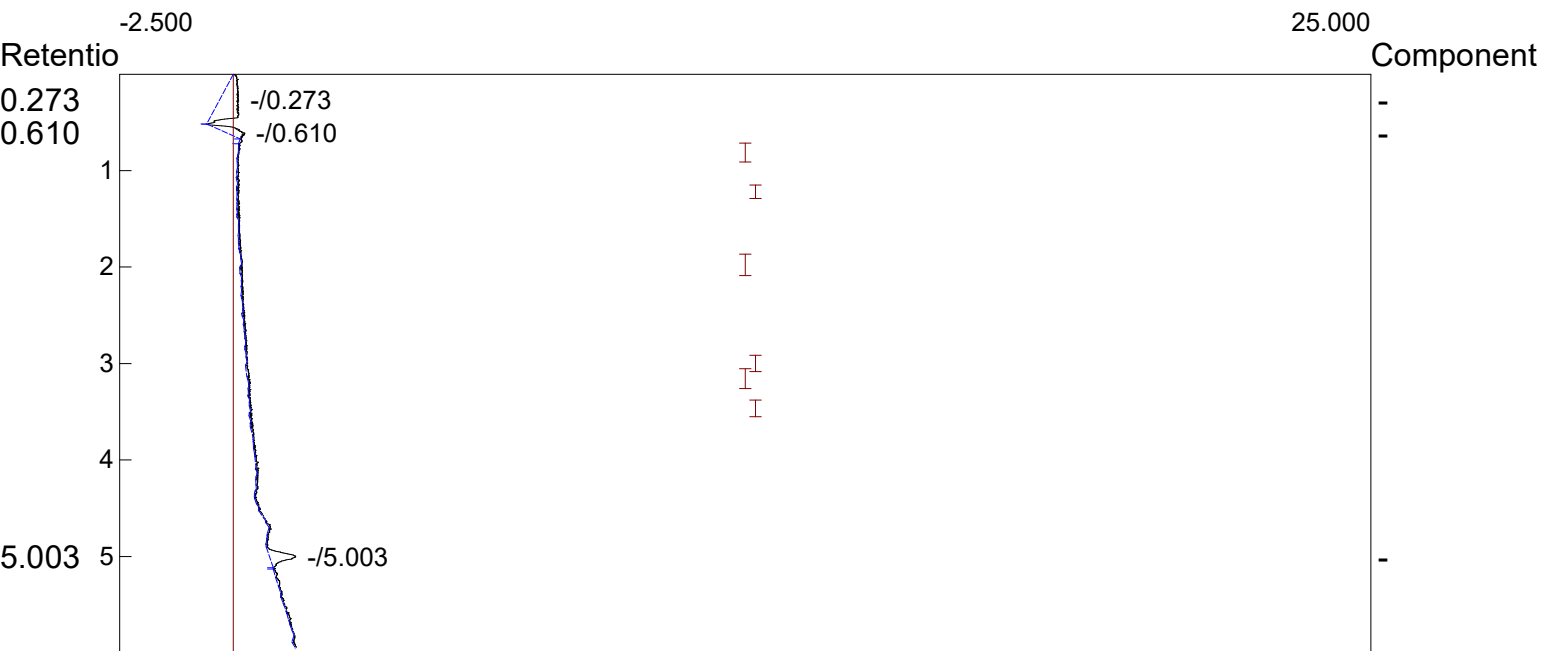
Carrier: He@ 4.2 PSI

Sample: GP-1 - QP#19

Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00



Component	Retention	Area	External	Units
		0.0000	0.0000	



Lab name: KLM Environmental, LLC

Collected: 12/13/21

Analysis date: 12/13/2021 15:49:41

Method: Headspace Injection

Description: PID - Channel 1

Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um

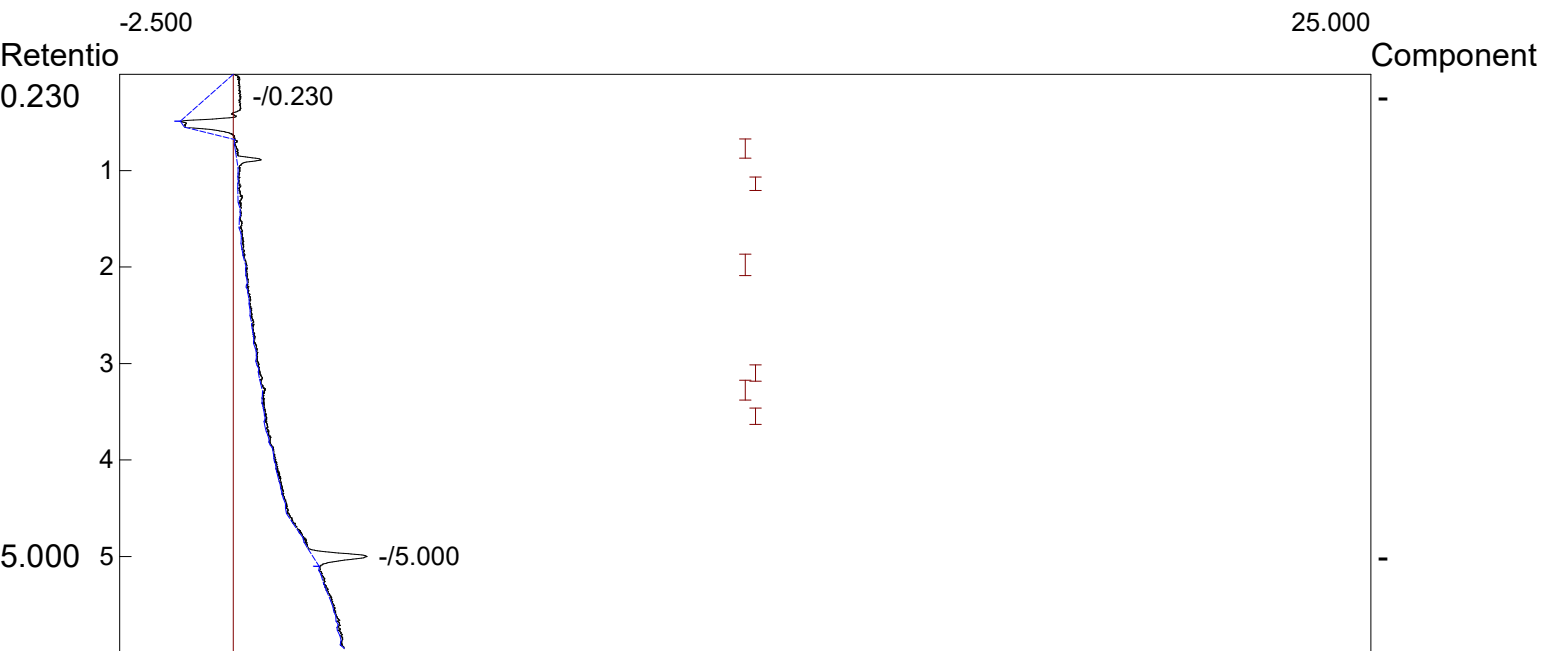
Carrier: He@ 4.2 PSI

Sample: GP-2 - QP#19

Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00



Component	Retention	Area	External	Units
		0.0000	0.0000	



Lab name: KLM Environmental, LLC

Collected: 12/14/21

Analysis date: 12/14/2021 09:49:19

Method: Headspace Injection

Description: PID - Channel 1

Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um

Carrier: He@ 4.2 PSI

Sample: GP-3 - QP#19

Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00



Component	Retention	Area	External	Units
		0.0000	0.0000	



Lab name: KLM Environmental, LLC

Collected: 12/14/21

Analysis date: 12/14/2021 09:39:28

Method: Headspace Injection

Description: PID - Channel 1

Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um

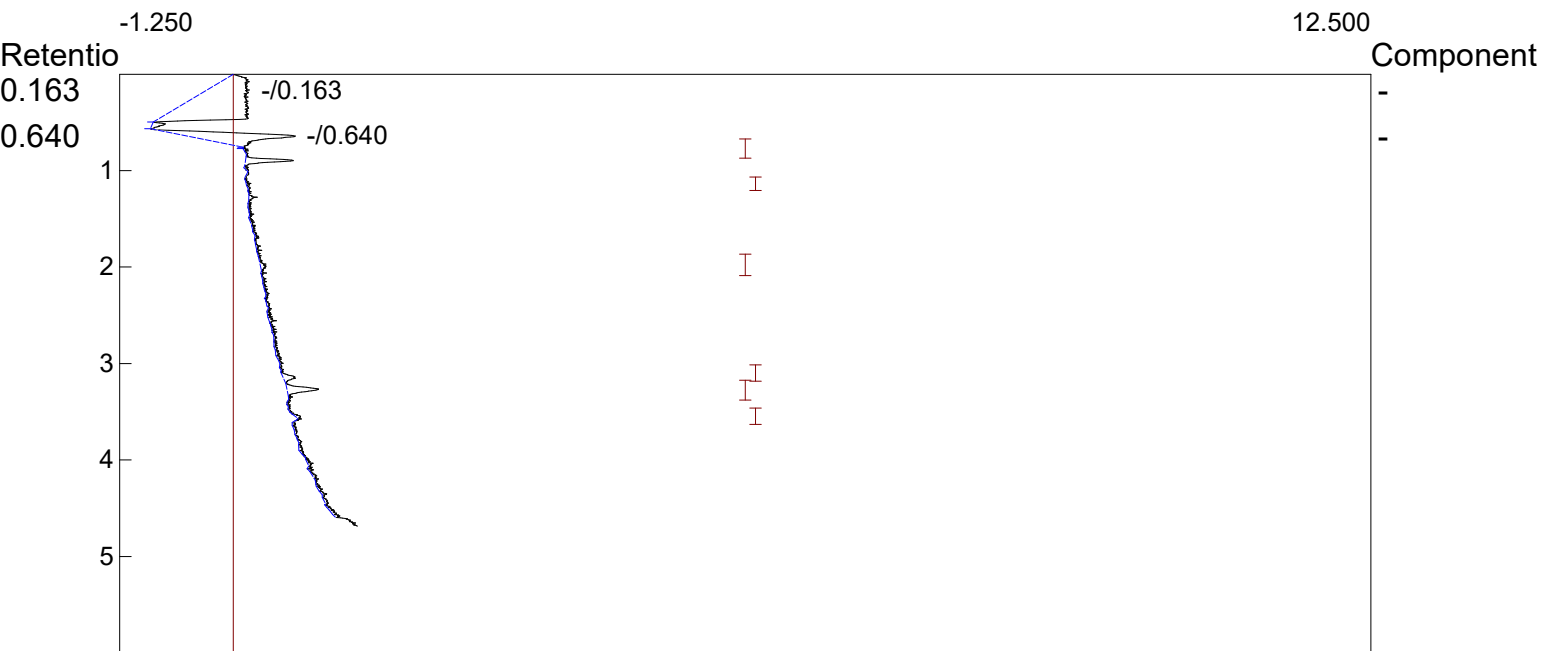
Carrier: He@ 4.2 PSI

Sample: GP-4 - QP#19

Operator: Mark Keller

Temperature program:

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85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00



Component	Retention	Area	External	Units
		0.0000	0.0000	



Lab name: KLM Environmental, LLC

Collected: 12/14/21

Analysis date: 12/14/2021 17:18:41

Method: Headspace Injection

Description: PID - Channel 1

Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um

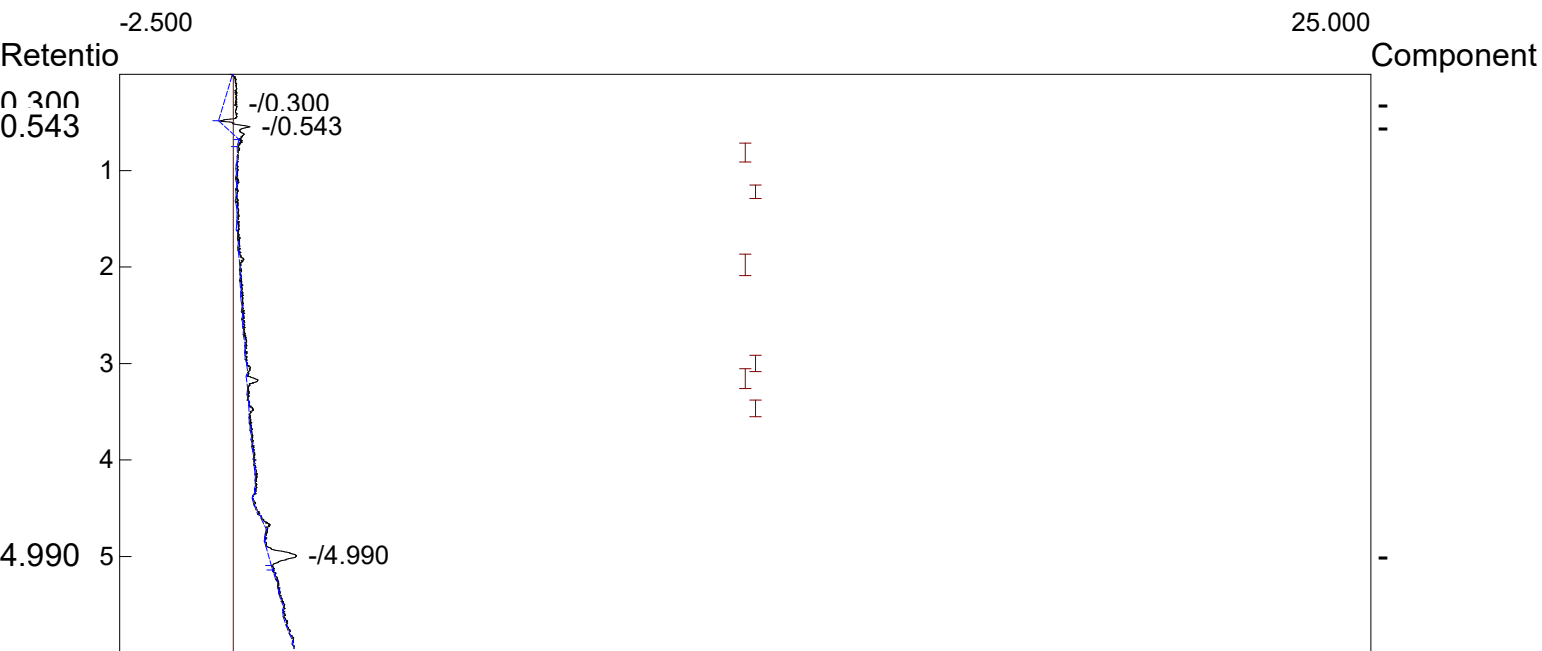
Carrier: He@ 4.2 PSI

Sample: GP-5 - QP#19

Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
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85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00



Component	Retention	Area	External	Units
		0.0000	0.0000	



Lab name: KLM Environmental, LLC

Collected: 12/14/21

Analysis date: 12/14/2021 11:44:31

Method: Headspace Injection

Description: PID - Channel 1

Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um

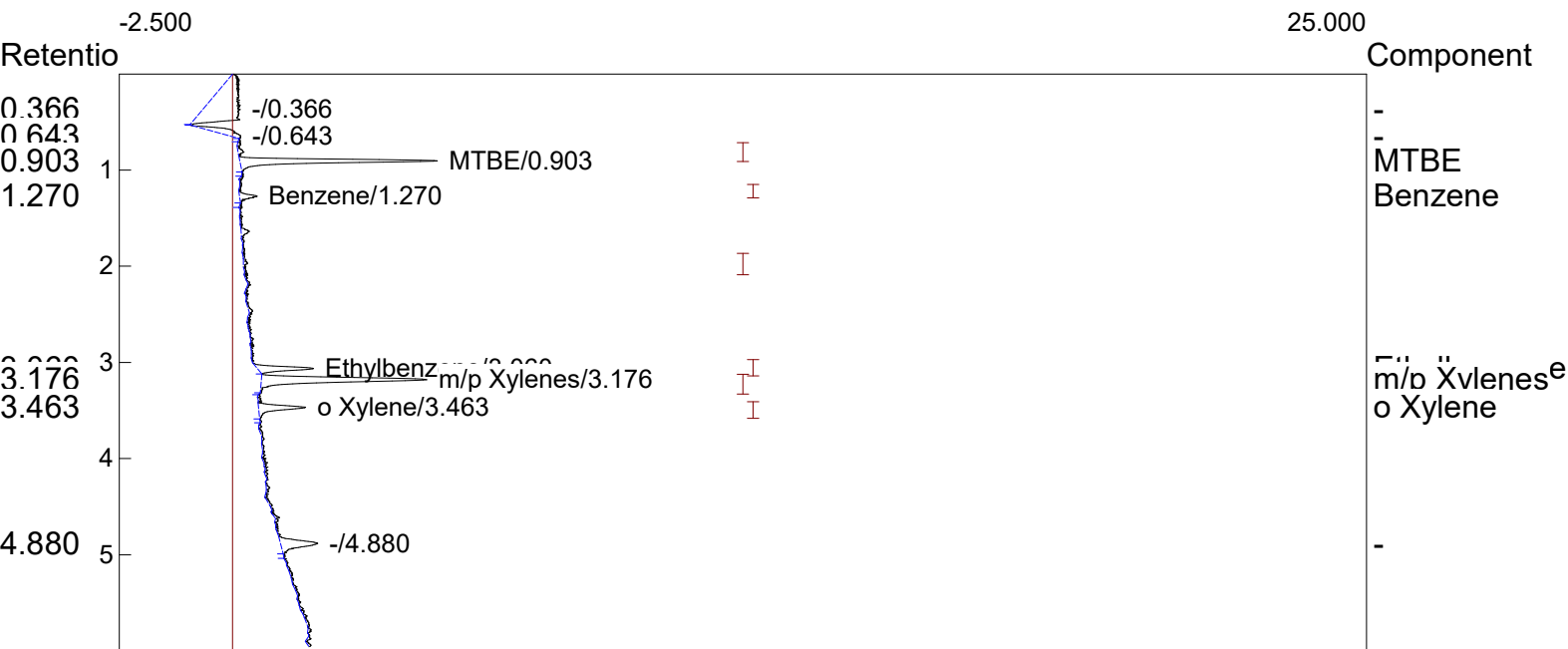
Carrier: He@ 4.2 PSI

Sample: GP-6 - QP#19

Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00



Component	Retention	Area	External	Units
MTBE	0.903	11.2740	84.6803	ppb
Benzene	1.270	1.1192	1.9225	ppb
Ethylbenzene	3.060	3.4480	48.6017	ppb
m/p Xylenes	3.176	12.0790	13.5063	ppb
o Xylene	3.463	3.3758	17.1924	ppb
		31.2960	165.9033	



Lab name: KLM Environmental, LLC

Collected: 12/14/21

Analysis date: 12/14/2021 11:25:21

Method: Headspace Injection

Description: PID - Channel 1

Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um

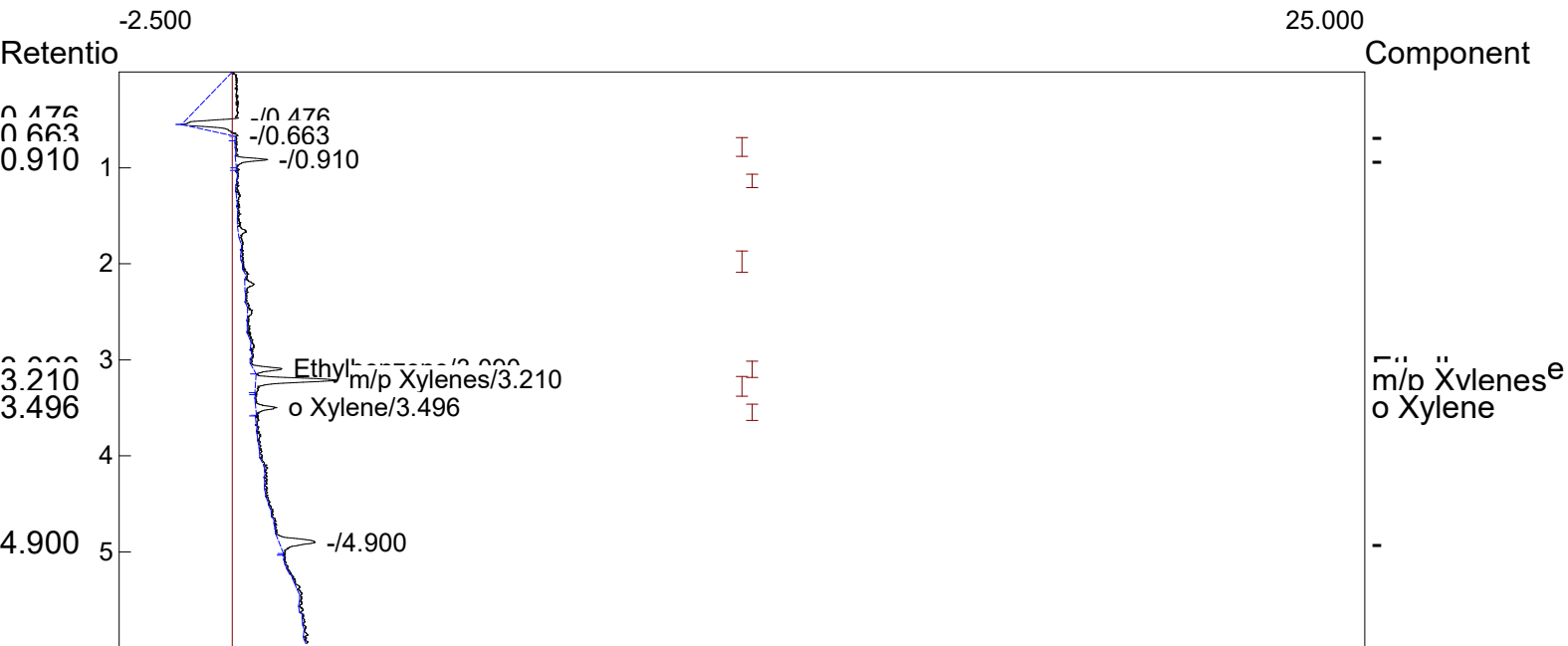
Carrier: He@ 4.2 PSI

Sample: GP-7 - QP#19

Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00



Component	Retention	Area	External	Units
Ethylbenzene	3.090	1.8172	25.6146	ppb
m/p Xylenes	3.210	5.8558	6.5478	ppb
o Xylene	3.496	1.3704	6.9792	ppb
		9.0434	39.1416	



Lab name: KLM Environmental, LLC

Collected: 12/14/21

Analysis date: 12/14/2021 10:54:58

Method: Headspace Injection

Description: PID - Channel 1

Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um

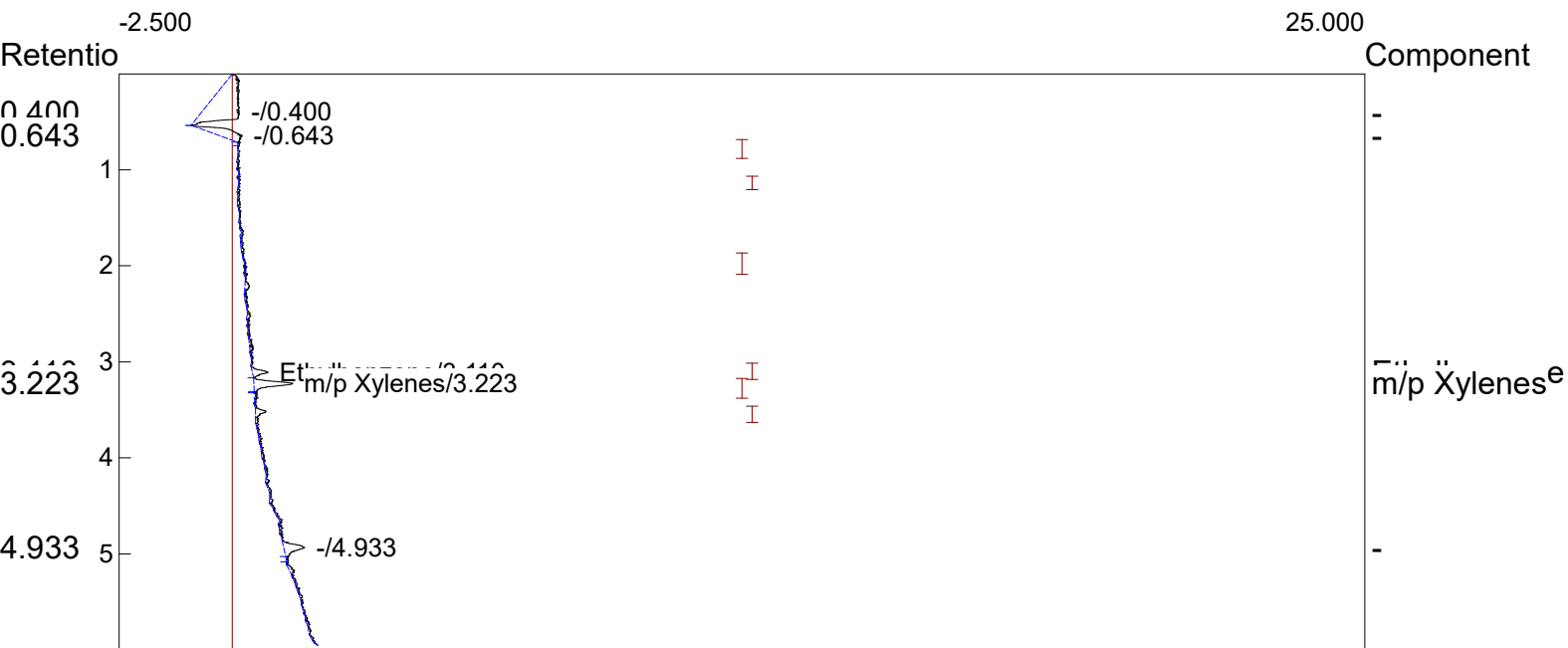
Carrier: He@ 4.2 PSI

Sample: GP-8 - QP#19

Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00



Component	Retention	Area	External	Units
Ethylbenzene	3.110	1.0954	15.4403	ppb
m/p Xylenes	3.223	2.9682	3.3189	ppb
		4.0636	18.7593	



Lab name: KLM Environmental, LLC

Collected: 12/14/21

Analysis date: 12/14/2021 11:54:28

Method: Headspace Injection

Description: PID - Channel 1

Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um

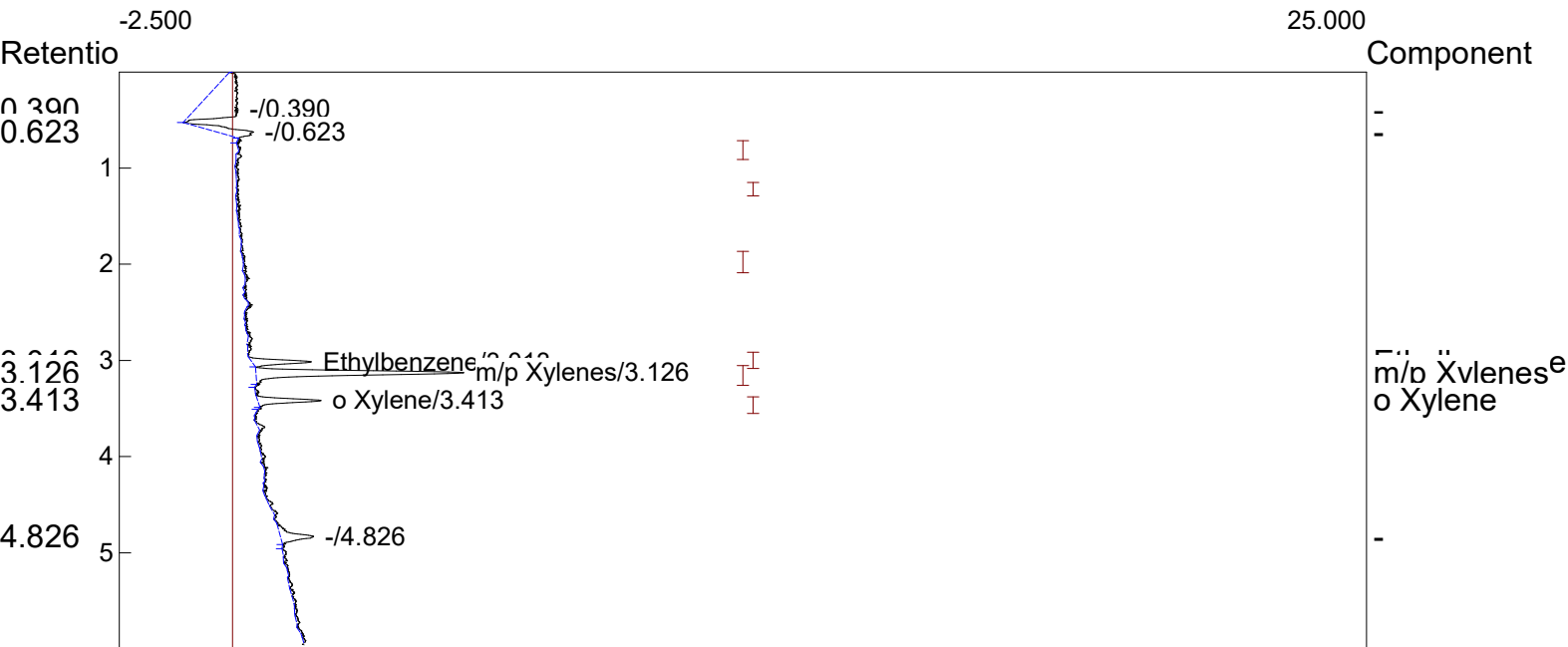
Carrier: He@ 4.2 PSI

Sample: GP-9 - QP#19

Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00



Component	Retention	Area	External	Units
Ethylbenzene	3.013	3.7380	52.6894	ppb
m/p Xylenes	3.126	14.7958	16.5442	ppb
o Xylene	3.413	3.9544	20.1391	ppb
		22.4882	89.3727	



Lab name: KLM Environmental, LLC

Collected: 12/14/21

Analysis date: 12/14/2021 12:04:18

Method: Headspace Injection

Description: PID - Channel 1

Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um

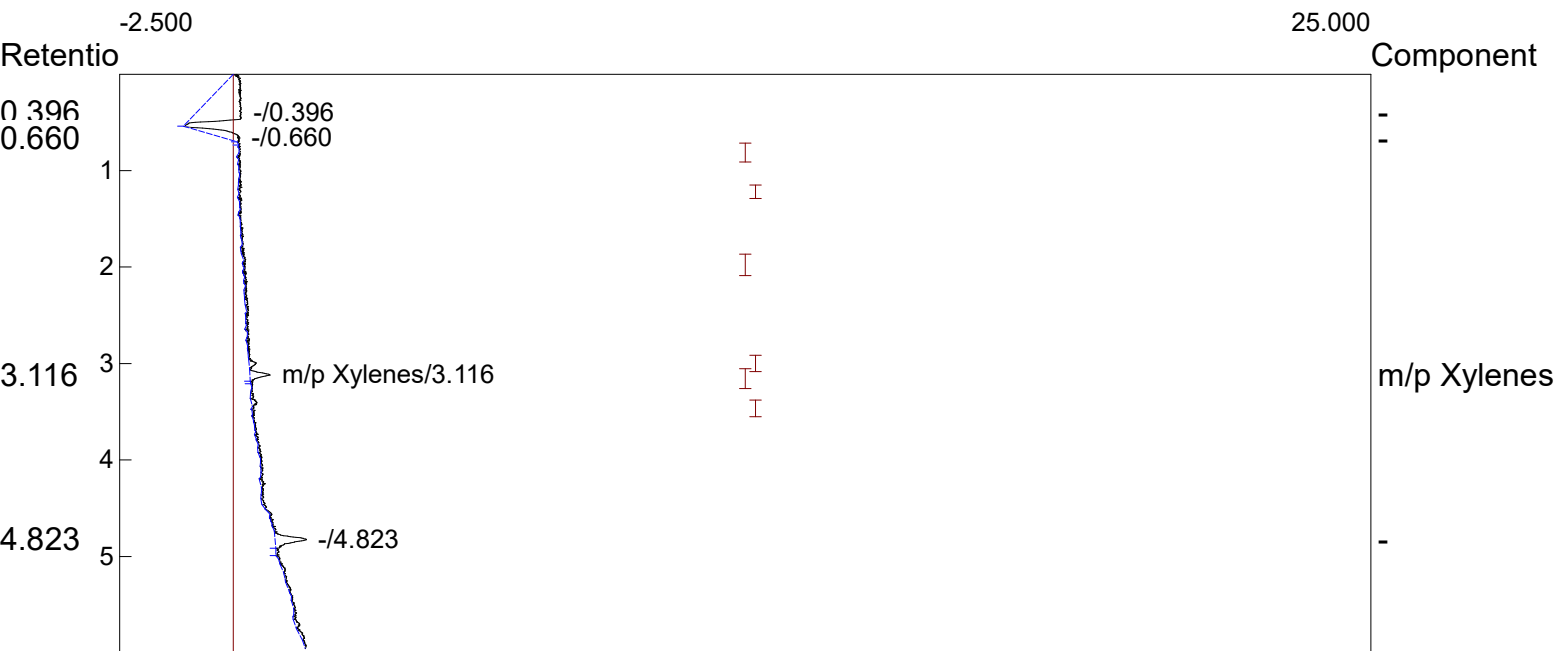
Carrier: He@ 4.2 PSI

Sample: GP-10 - QP#19

Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00



Component	Retention	Area	External	Units
m/p Xylenes	3.116	1.4316	1.6008	ppb
		1.4316	1.6008	



Lab name: KLM Environmental, LLC

Collected: 12/14/21

Analysis date: 12/14/2021 12:35:52

Method: Headspace Injection

Description: PID - Channel 1

Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um

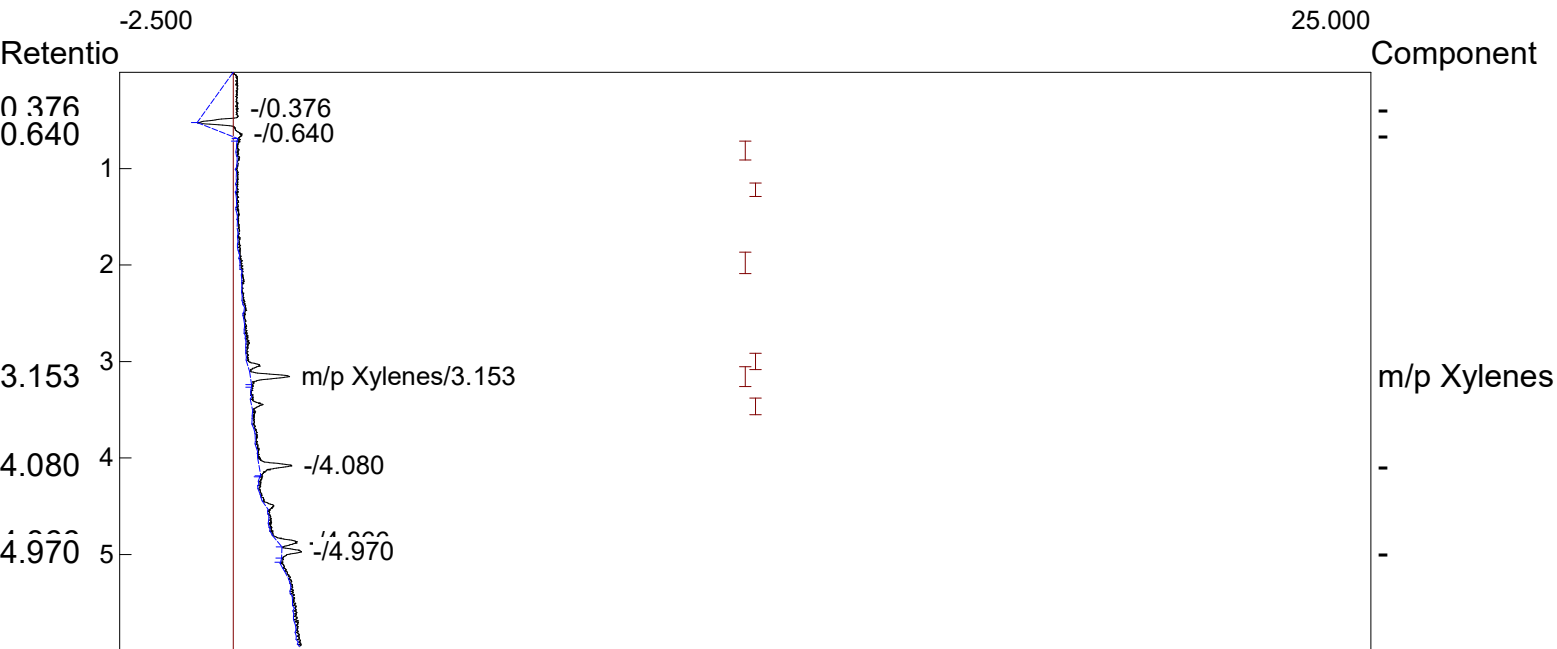
Carrier: He@ 4.2 PSI

Sample: GP-11 - QP#19

Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00



Component	Retention	Area	External	Units
m/p Xylenes	3.153	2.7698	3.0971	ppb
		2.7698	3.0971	



Lab name: KLM Environmental, LLC

Collected: 12/14/21

Analysis date: 12/14/2021 12:45:14

Method: Headspace Injection

Description: PID - Channel 1

Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um

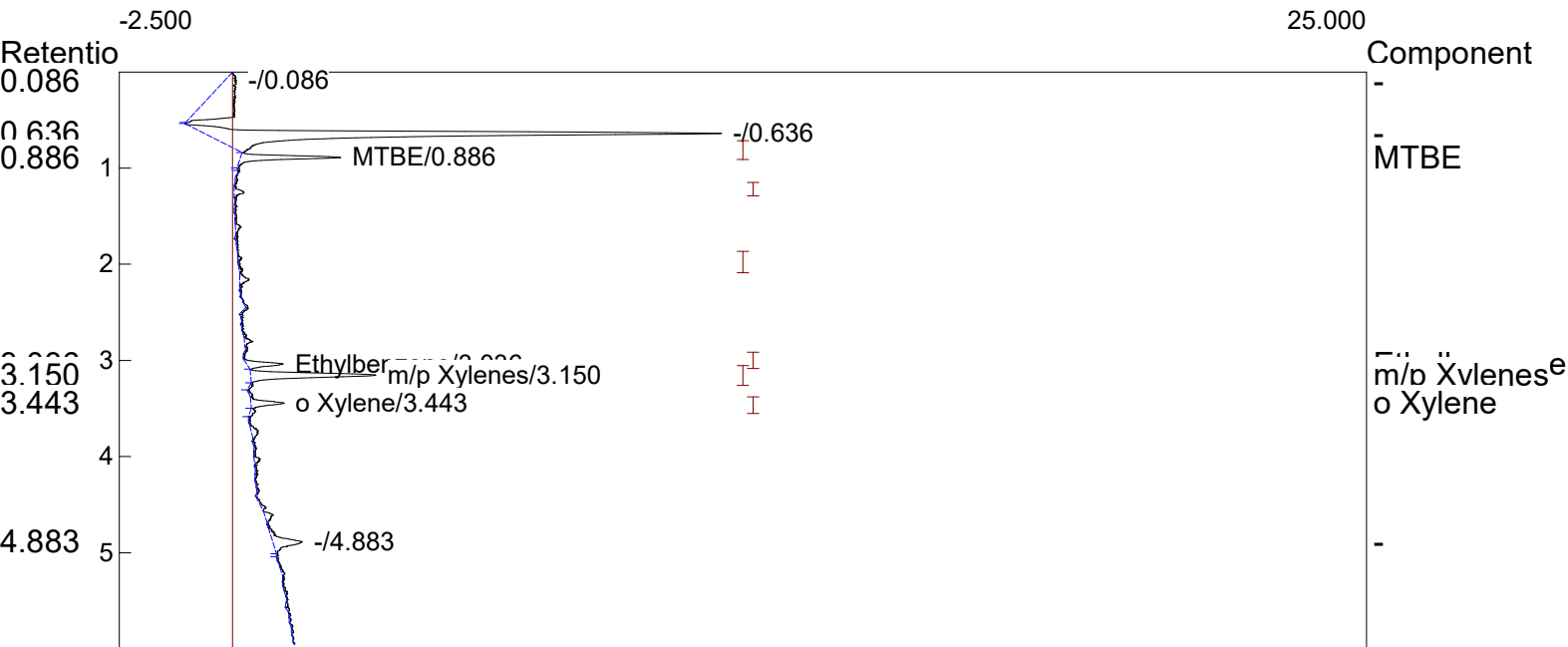
Carrier: He@ 4.2 PSI

Sample: GP-12 - QP#19

Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00



Component	Retention	Area	External	Units
MTBE	0.886	5.7172	42.9426	ppb
Ethylbenzene	3.036	2.2888	32.2621	ppb
m/p Xylenes	3.150	8.7862	9.8244	ppb
o Xylene	3.443	2.1684	11.0433	ppb
		18.9606	96.0724	

Lab name: KLM Environmental, LLC

Collected: 12/14/21

Analysis date: 12/14/2021 13:07:26

Method: Headspace Injection

Description: PID - Channel 1

Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um

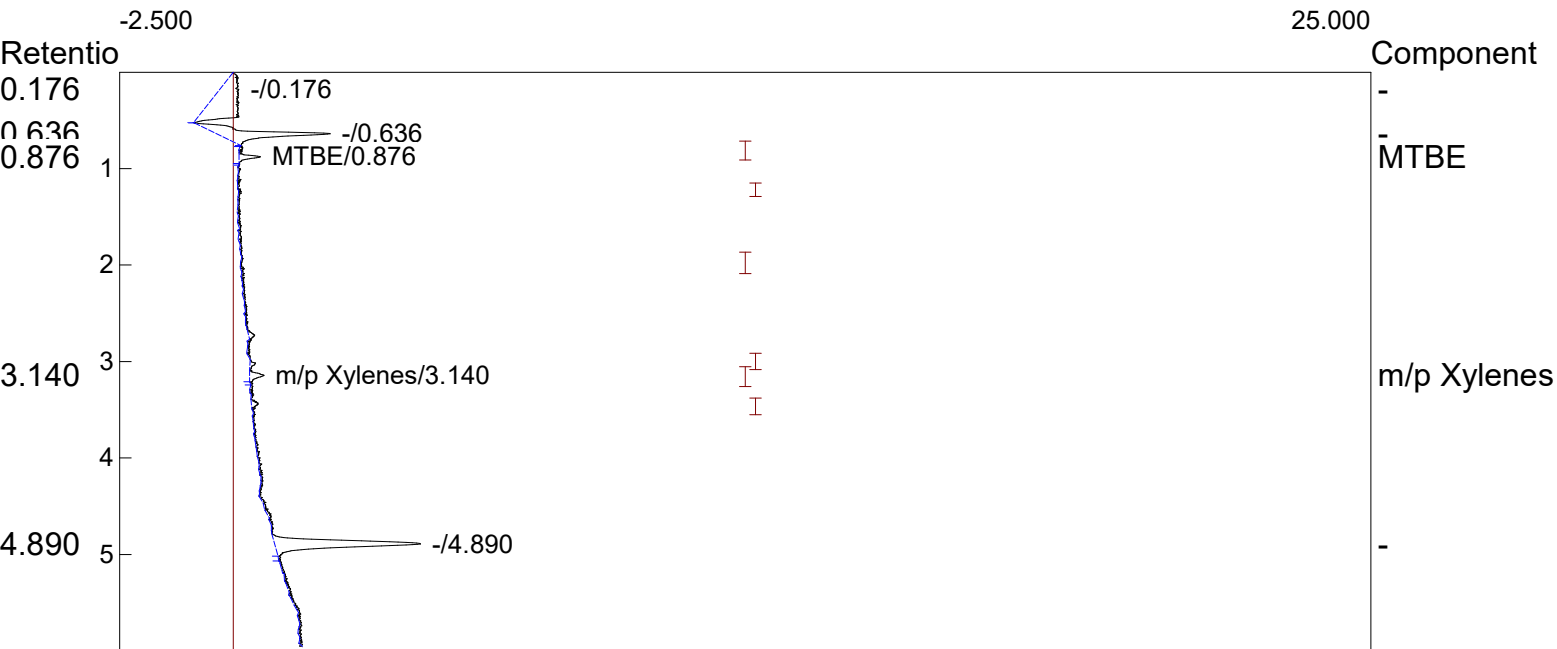
Carrier: He@ 4.2 PSI

Sample: GP-13 - QP#19

Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00



Component	Retention	Area	External	Units
MTBE	0.876	1.0778	8.0955	ppb
m/p Xylenes	3.140	1.1020	1.2322	ppb
		2.1798	9.3277	



Lab name: KLM Environmental, LLC

Collected: 12/14/21

Analysis date: 12/14/2021 13:25:50

Method: Headspace Injection

Description: PID - Channel 1

Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um

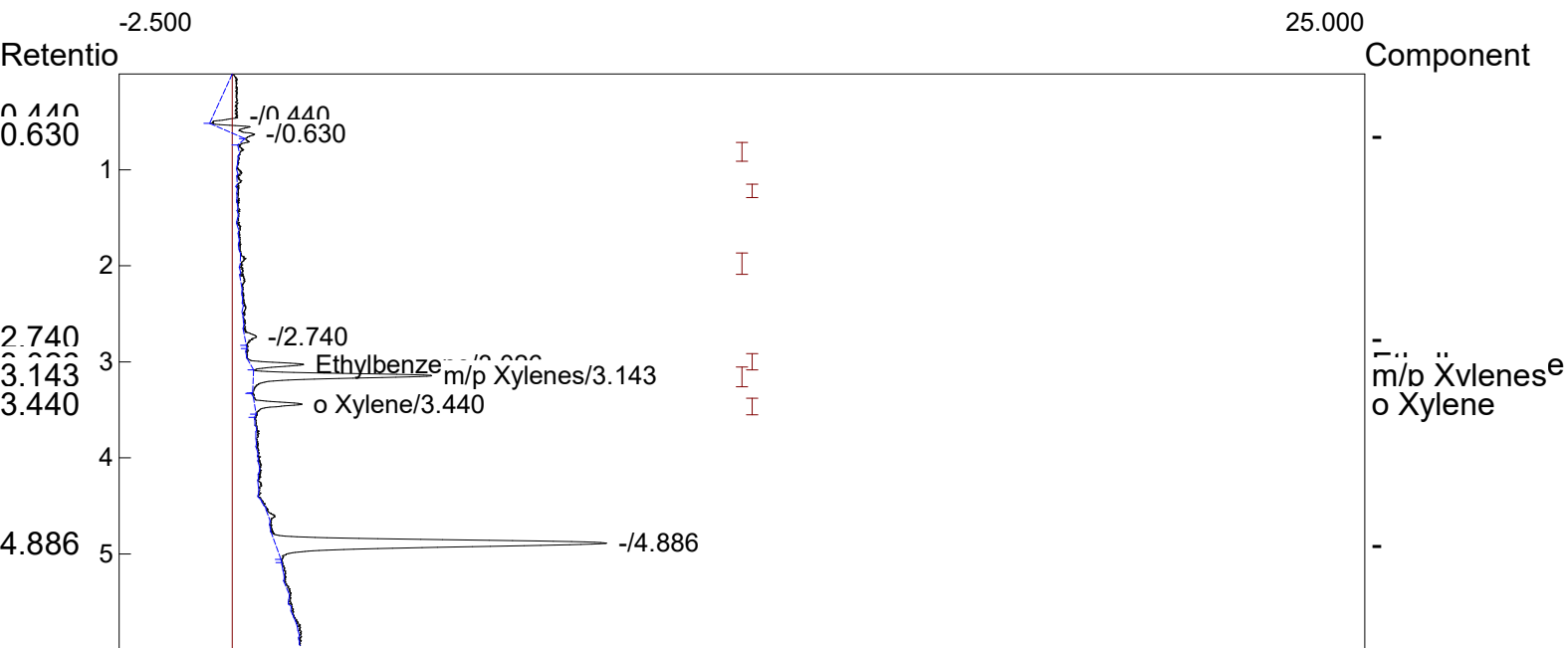
Carrier: He@ 4.2 PSI

Sample: GP-14 - QP#19

Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00



Component	Retention	Area	External	Units
Ethylbenzene	3.026	3.4020	47.9533	ppb
m/p Xylenes	3.143	13.7212	15.3426	ppb
o Xylene	3.440	3.3044	16.8288	ppb
		20.4276	80.1247	

Lab name: KLM Environmental, LLC

Collected: 12/14/21

Analysis date: 12/14/2021 13:37:12

Method: Headspace Injection

Description: PID - Channel 1

Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um

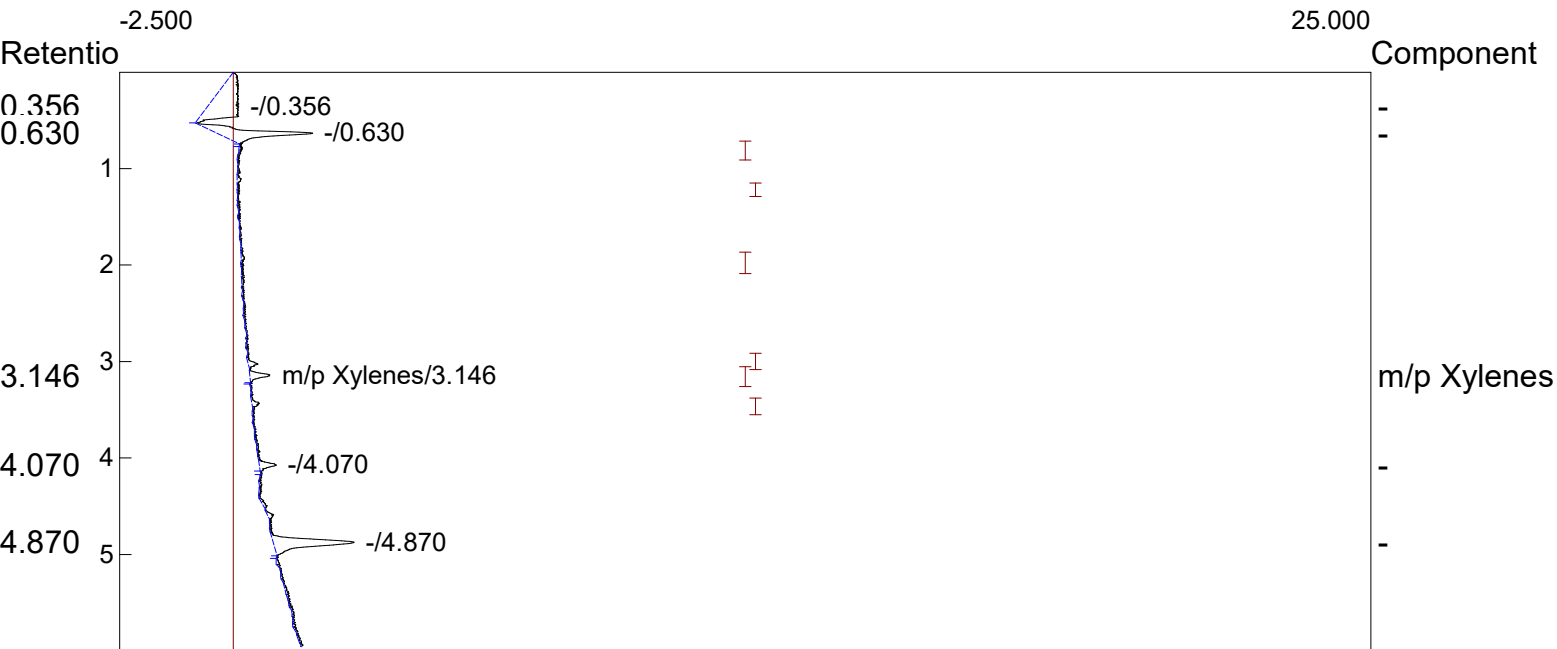
Carrier: He@ 4.2 PSI

Sample: GP-15 - QP#19

Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00



Component	Retention	Area	External	Units
m/p Xylenes	3.146	1.4756	1.6500	ppb
		1.4756	1.6500	



Lab name: KLM Environmental, LLC

Collected: 12/14/21

Analysis date: 12/14/2021 15:05:41

Method: Headspace Injection

Description: PID - Channel 1

Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um

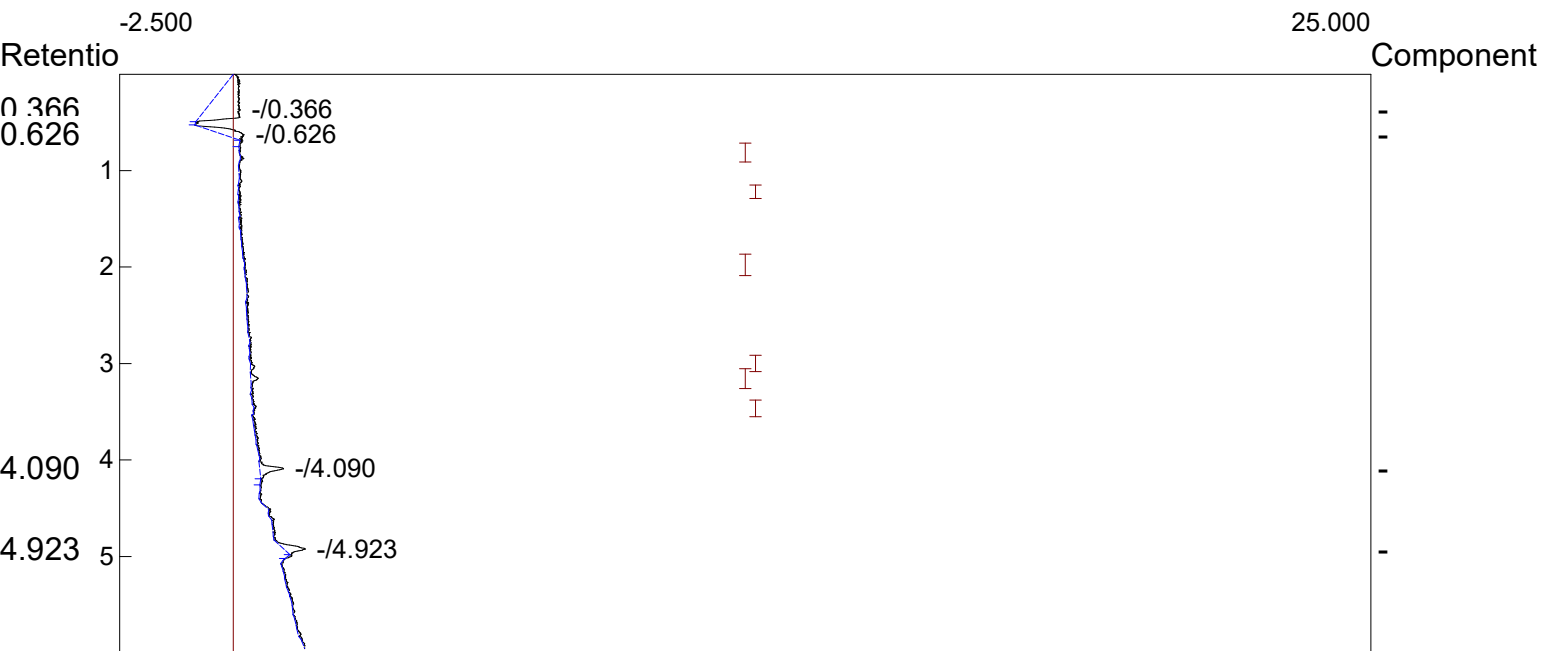
Carrier: He@ 4.2 PSI

Sample: GP-16 - QP#19

Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00



Component	Retention	Area	External	Units
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		0.0000	0.0000	
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Lab name: KLM Environmental, LLC

Collected: 12/14/21

Analysis date: 12/14/2021 15:16:37

Method: Headspace Injection

Description: PID - Channel 1

Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um

Carrier: He@ 4.2 PSI

Sample: GP-17 - QP#19

Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00



Component	Retention	Area	External	Units
m/p Xylenes	3.153	1.5756	1.7618	ppb
		1.5756	1.7618	



Lab name: KLM Environmental, LLC

Collected: 12/14/21

Analysis date: 12/14/2021 14:50:07

Method: Headspace Injection

Description: PID - Channel 1

Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um

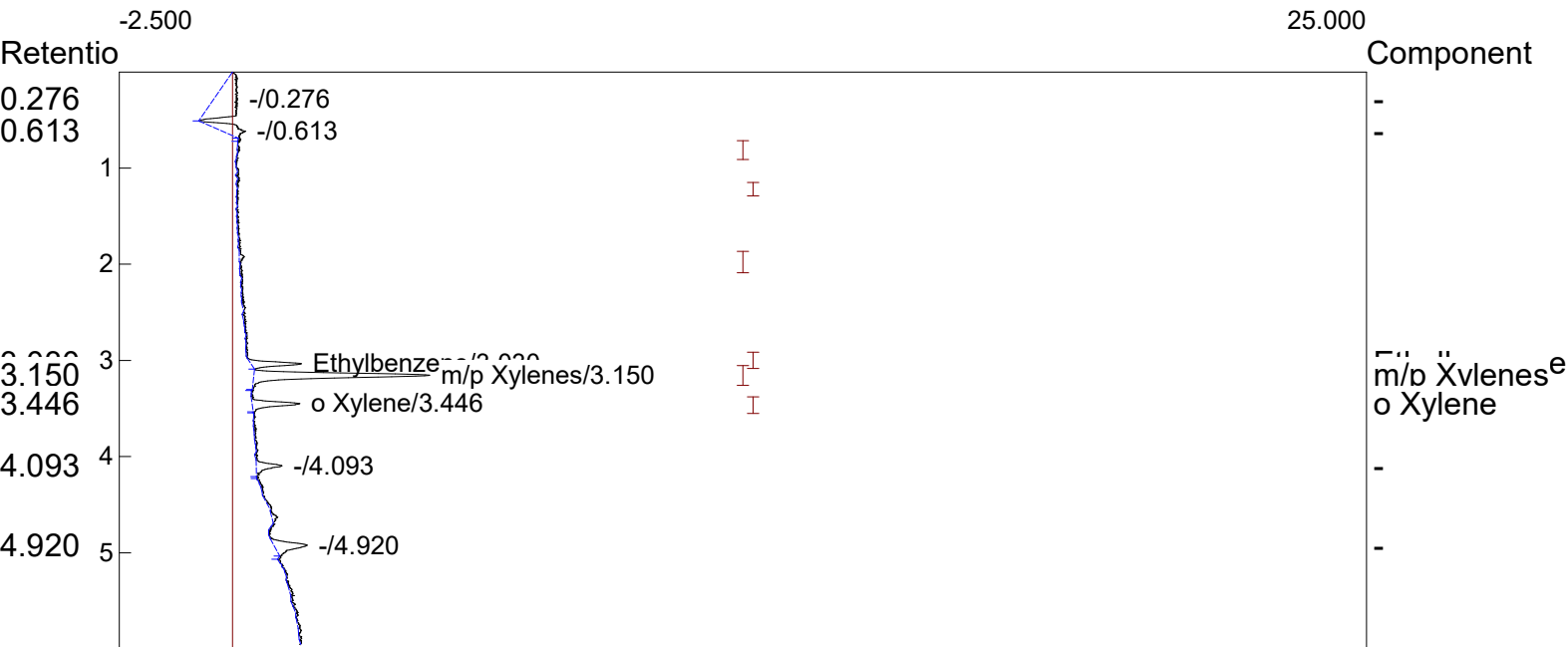
Carrier: He@ 4.2 PSI

Sample: GP-18 - QP#19

Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00



Component	Retention	Area	External	Units
Ethylbenzene	3.030	3.1100	43.8374	ppb
m/p Xylenes	3.150	13.0888	14.6354	ppb
o Xylene	3.446	3.4016	17.3238	ppb
		19.6004	75.7967	

Lab name: KLM Environmental, LLC

Collected: 12/14/21

Analysis date: 12/14/2021 15:55:04

Method: Headspace Injection

Description: PID - Channel 1

Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um

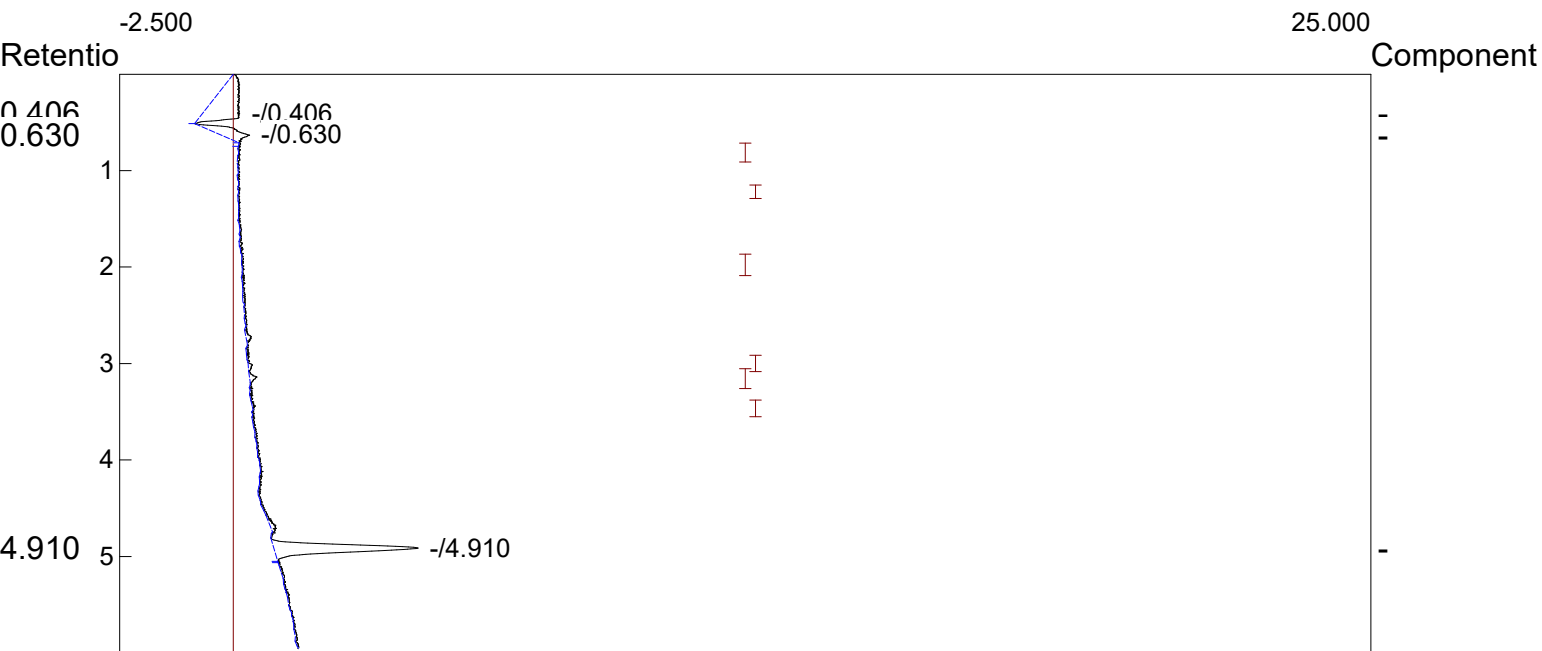
Carrier: He@ 4.2 PSI

Sample: GP-19D - QP#19

Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00



Component	Retention	Area	External	Units
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		0.0000	0.0000	
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Lab name: KLM Environmental, LLC

Collected: 12/14/21

Analysis date: 12/14/2021 16:04:15

Method: Headspace Injection

Description: PID - Channel 1

Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um

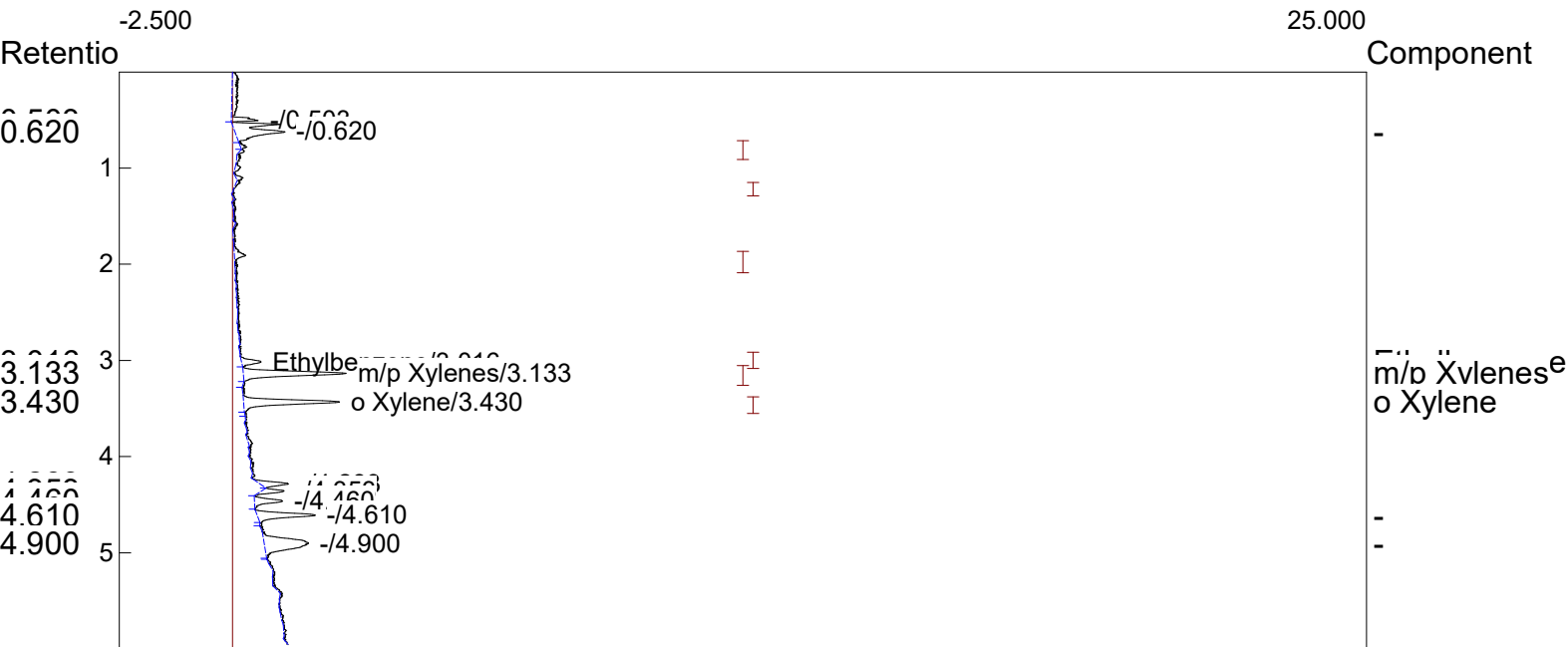
Carrier: He@ 4.2 PSI

Sample: GP-20D - QP#19

Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00



Component	Retention	Area	External	Units
Ethylbenzene	3.016	1.3242	18.6654	ppb
m/p Xylenes	3.133	7.4136	8.2896	ppb
o Xylene	3.430	6.9496	35.3932	ppb
		15.6874	62.3483	

Lab name: KLM Environmental, LLC

Collected: 12/14/21

Analysis date: 12/14/2021 16:12:26

Method: Headspace Injection

Description: PID - Channel 1

Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um

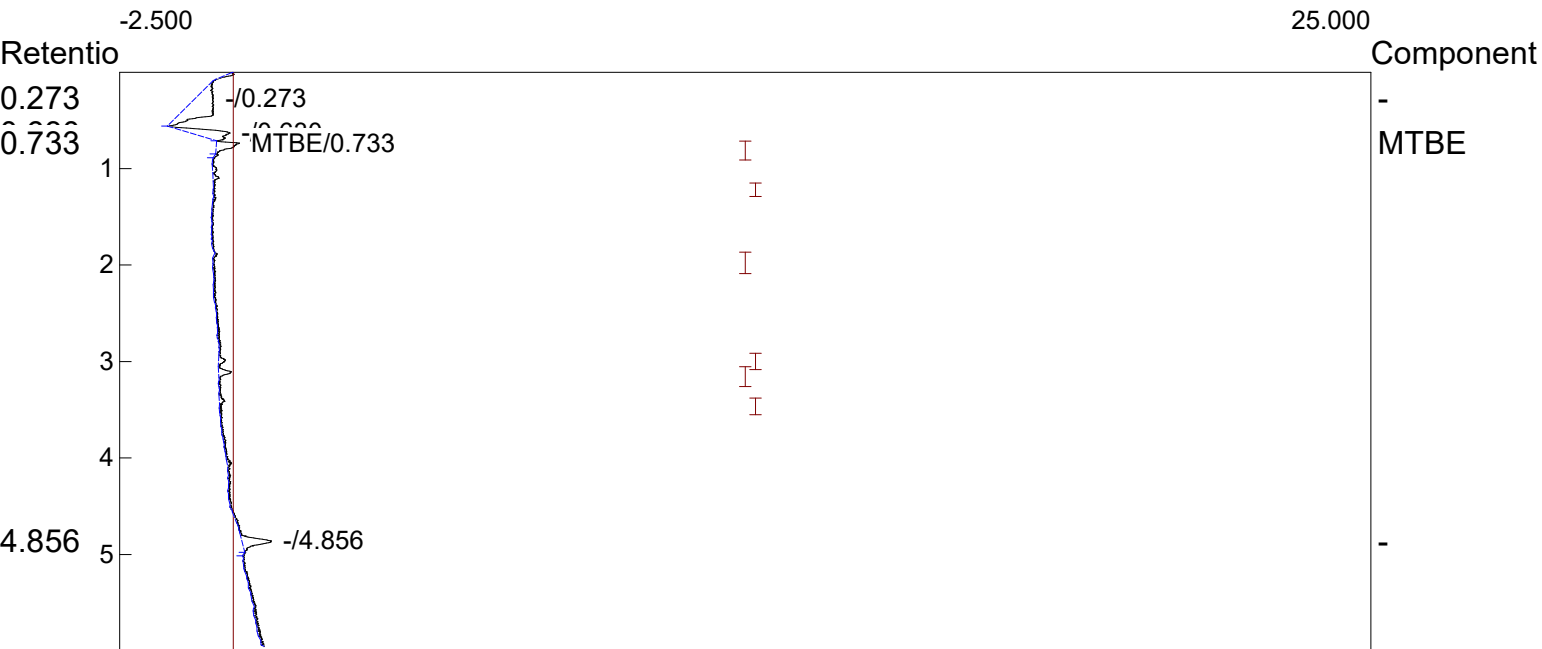
Carrier: He@ 4.2 PSI

Sample: GP-21D - QP#19

Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00



Component	Retention	Area	External	Units
MTBE	0.733	2.0162	15.1439	ppb
		2.0162	15.1439	



Lab name: KLM Environmental, LLC

Collected: 12/14/21

Analysis date: 12/14/2021 16:20:52

Method: Headspace Injection

Description: PID - Channel 1

Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um

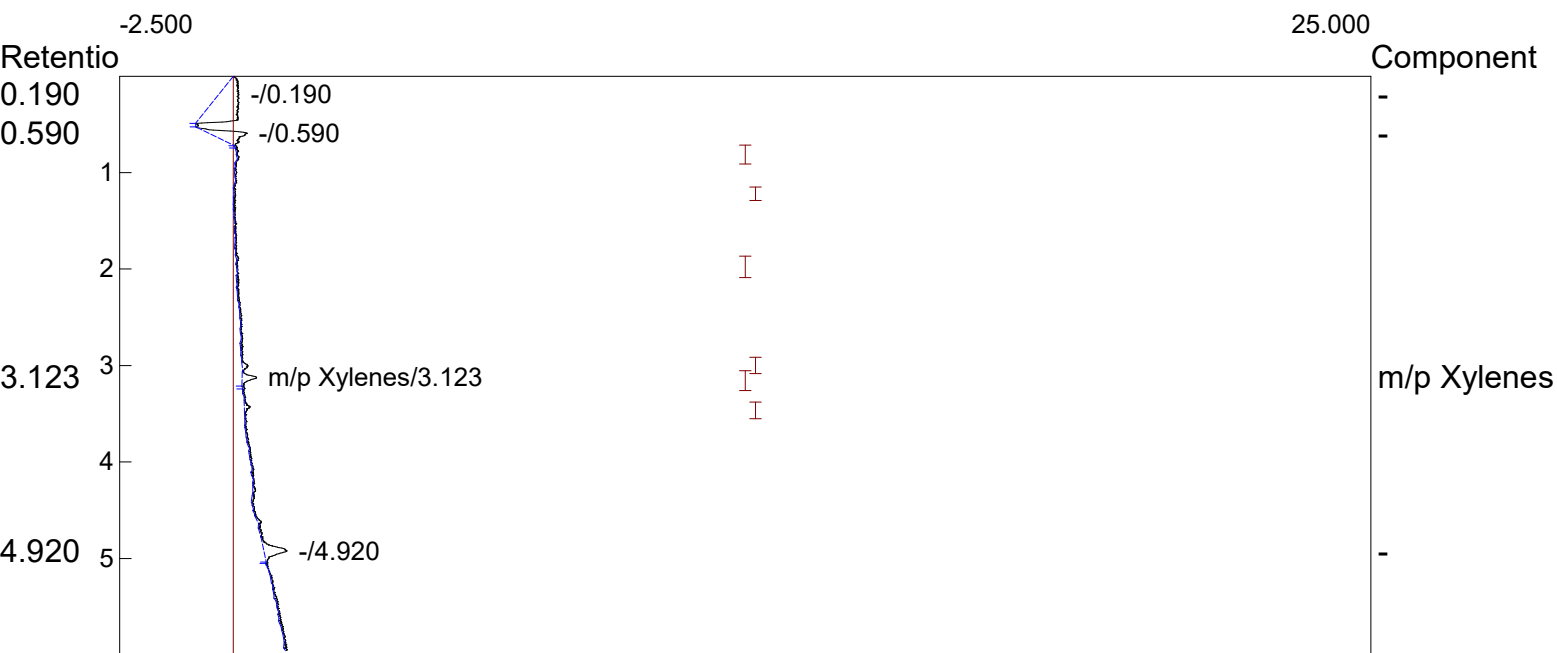
Carrier: He@ 4.2 PSI

Sample: GP-22D - QP#19

Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00



Component	Retention	Area	External	Units
m/p Xylenes	3.123	1.1654	1.3031	ppb
		1.1654	1.3031	

Lab name: KLM Environmental, LLC

Collected: 12/14/21

Analysis date: 12/14/2021 10:33:32

Method: Headspace Injection

Description: PID - Channel 1

Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um

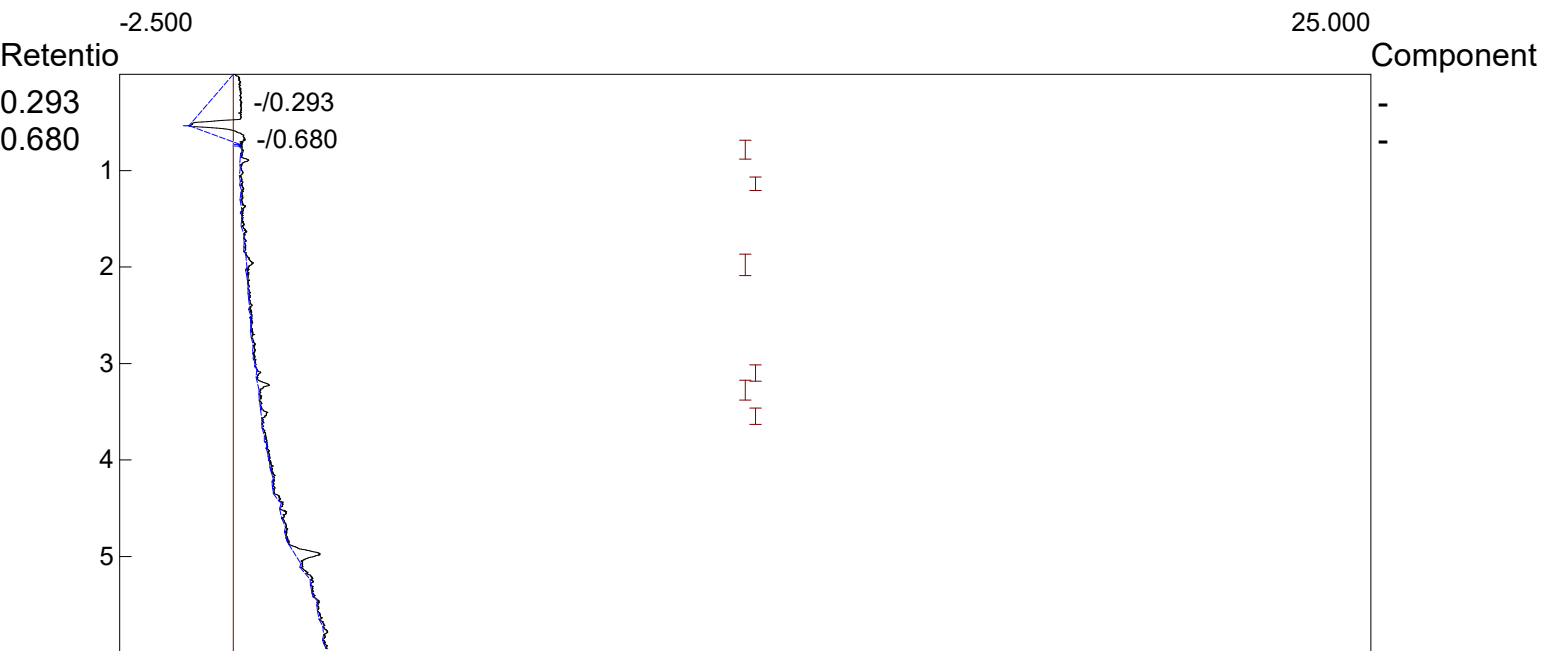
Carrier: He@ 4.2 PSI

Sample: Pond - QP#19

Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00



Component	Retention	Area	External	Units
		0.0000	0.0000	



Lab name: KLM Environmental, LLC

Collected: 12/14/21

Analysis date: 12/14/2021 10:43:13

Method: Headspace Injection

Description: PID - Channel 1

Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um

Carrier: He@ 4.2 PSI

Sample: Drain - QP#19

Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00



Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC

Collected: 1/28/22

Analysis date: 01/28/2022 11:30:30

Method: Headspace Injection

Description: PID - Channel 1

Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um

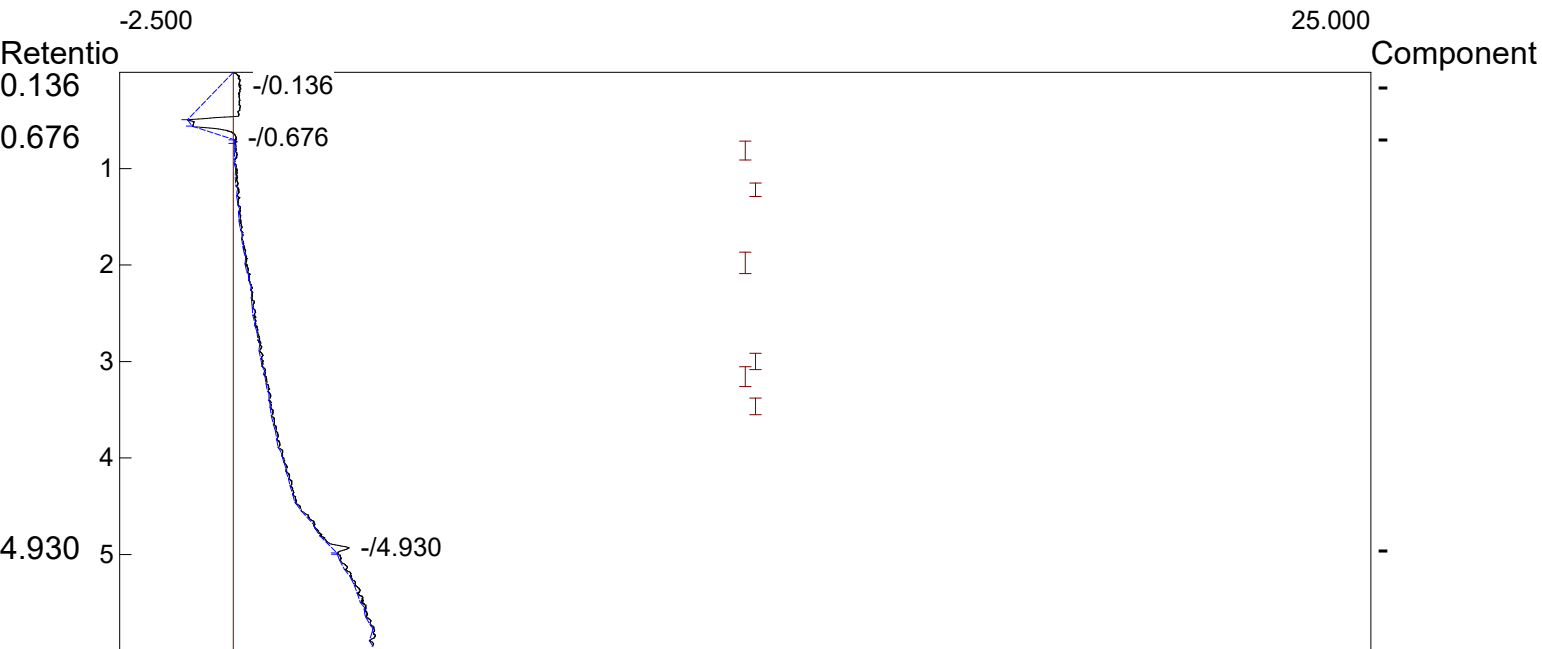
Carrier: He@ 4.2 PSI

Sample: TW-1

Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00



Component	Retention	Area	External	Units
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		0.0000	0.0000	
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Lab name: KLM Environmental, LLC

Collected: 1/28/22

Analysis date: 01/28/2022 11:39:21

Method: Headspace Injection

Description: PID - Channel 1

Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um

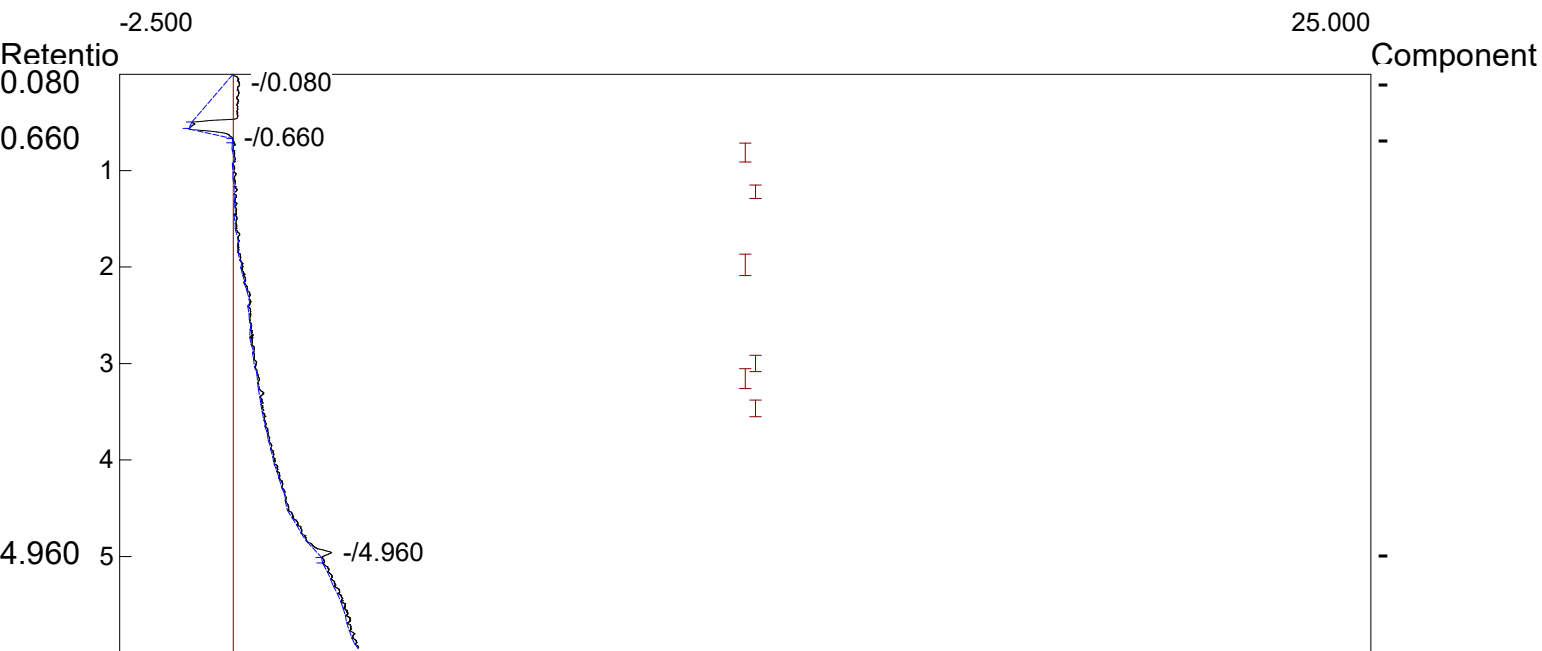
Carrier: He@ 4.2 PSI

Sample: TW-2

Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00



Component	Retention	Area	External	Units
		0.0000	0.0000	

Lab name: KLM Environmental, LLC

Collected: 1/28/22

Analysis date: 01/28/2022 11:48:06

Method: Headspace Injection

Description: PID - Channel 1

Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um

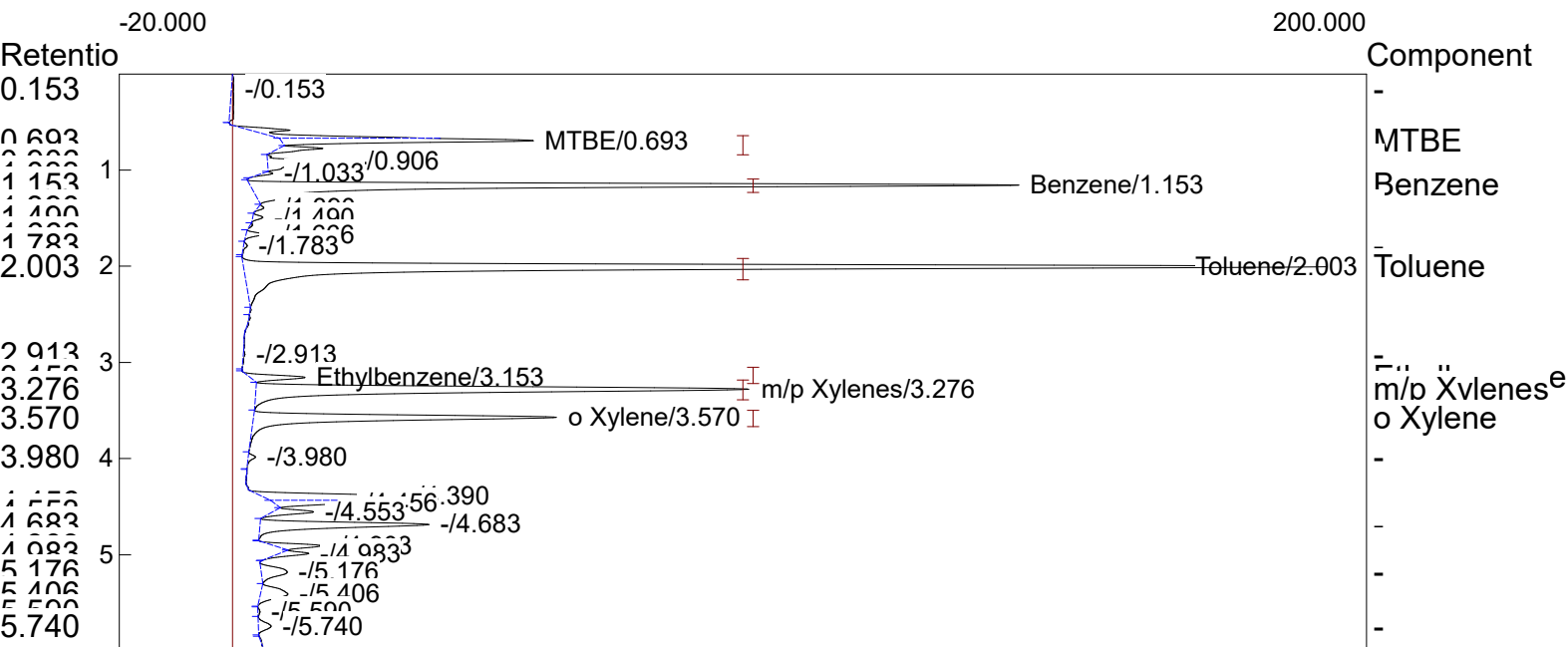
Carrier: He@ 4.2 PSI

Sample: TW-3

Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00



Component	Retention	Area	External	Units
MTBE	0.693	113.5946	853.2223	ppb
Benzene	1.153	426.5644	732.7334	ppb
Toluene	2.003	716.1408	1467.7453	ppb
Ethylbenzene	3.153	29.1948	411.5189	ppb
m/p Xylenes	3.276	356.6028	398.7409	ppb
o Xylene	3.570	212.3658	1081.5456	ppb
		1854.4632	4945.5064	



Lab name: KLM Environmental, LLC

Collected: 1/28/22

Analysis date: 01/28/2022 11:56:03

Method: Headspace Injection

Description: PID - Channel 1

Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um

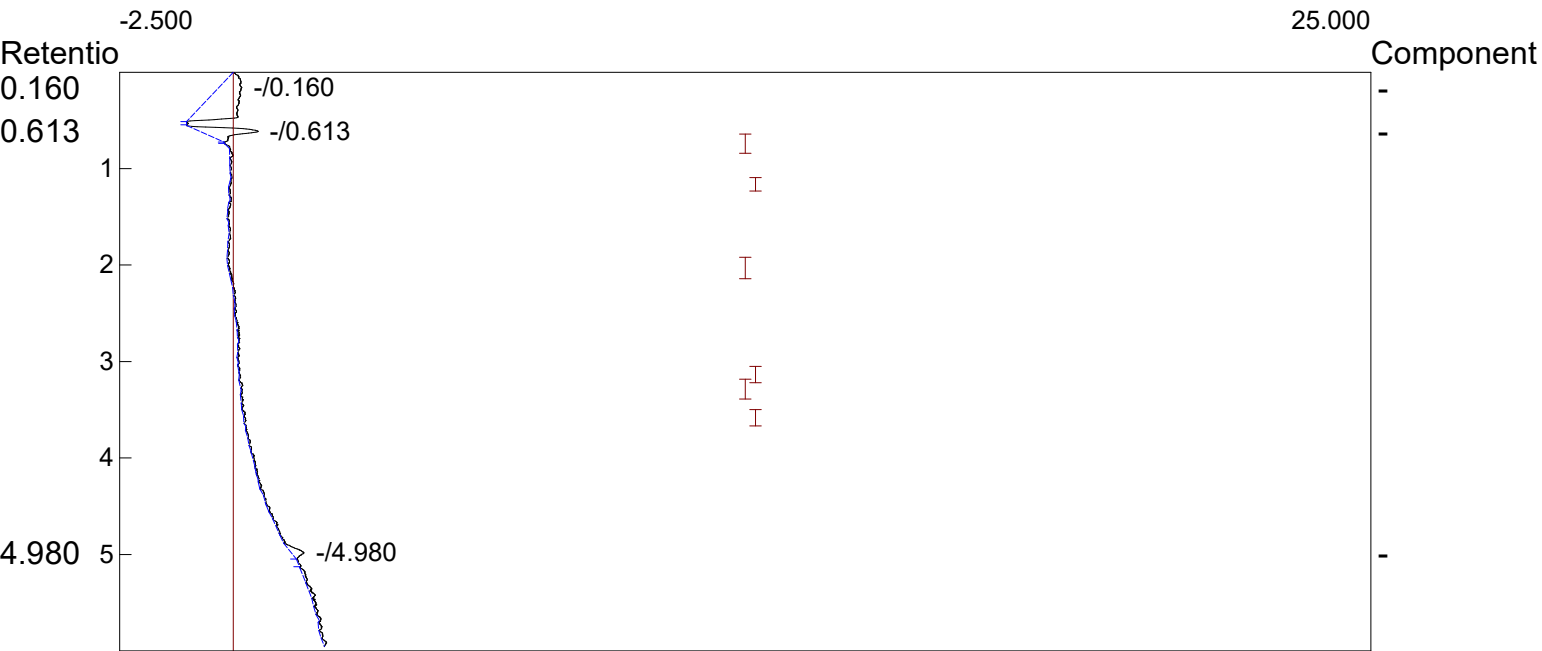
Carrier: He@ 4.2 PSI

Sample: TW-4

Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00



Component	Retention	Area	External	Units
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		0.0000	0.0000	
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Lab name: KLM Environmental, LLC

Collected: 1/28/22

Analysis date: 01/28/2022 12:04:25

Method: Headspace Injection

Description: PID - Channel 1

Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um

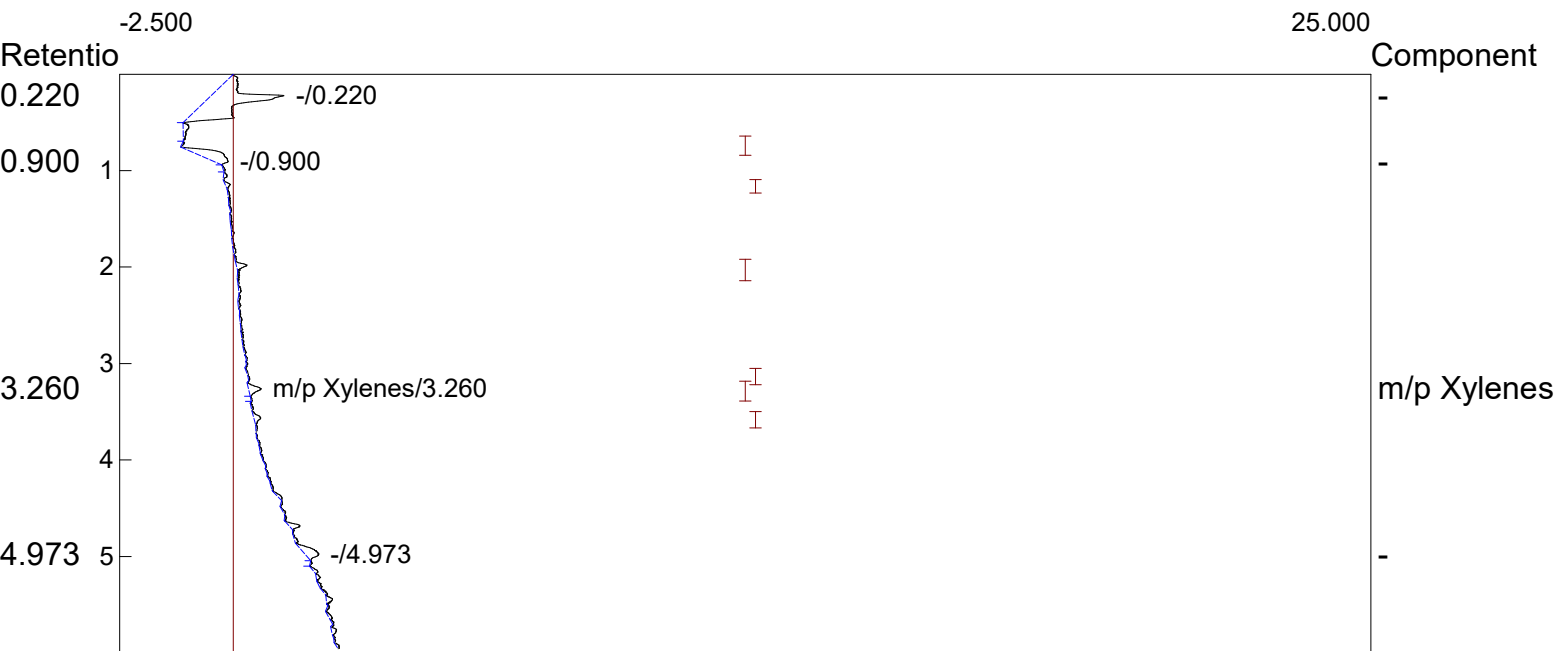
Carrier: He@ 4.2 PSI

Sample: TW-5

Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00



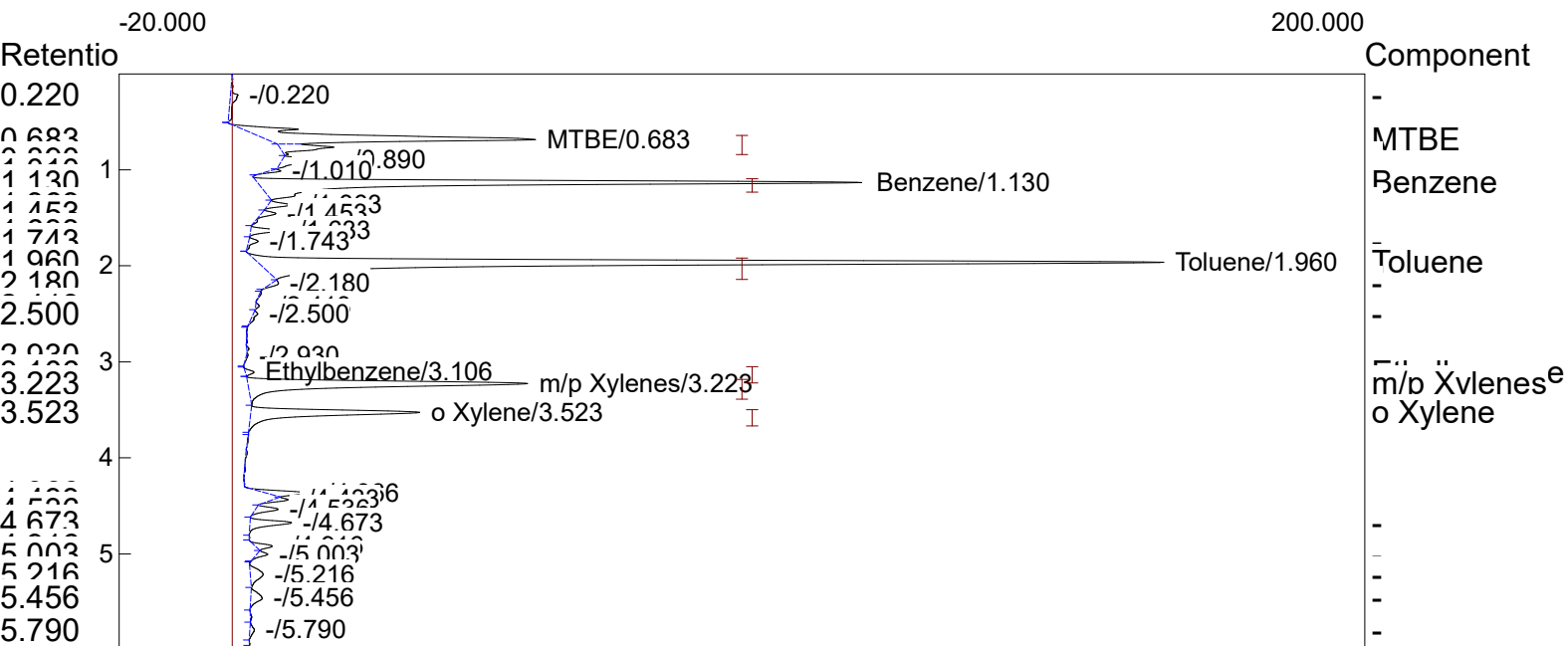
Component	Retention	Area	External	Units
m/p Xylenes	3.260	1.1548	1.2913	ppb
		1.1548	1.2913	



Lab name: KLM Environmental, LLC  
 Collected: 1/28/22  
 Analysis date: 01/28/2022 12:12:53  
 Method: Headspace Injection  
 Description: PID - Channel 1  
 Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um  
 Carrier: He@ 4.2 PSI  
 Sample: TW-6  
 Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00



Component	Retention	Area	External	Units
MTBE	0.683	204.8531	1538.6755	ppb
Benzene	1.130	361.5640	621.0786	ppb
Toluene	1.960	583.2464	1195.3755	ppb
Ethylbenzene	3.106	4.2668	60.1432	ppb
m/p Xylenes	3.223	208.2638	232.8734	ppb
o Xylene	3.523	120.9988	616.2278	ppb
		1483.1929	4264.3740	

Lab name: KLM Environmental, LLC

Collected: 1/28/22

Analysis date: 01/28/2022 12:21:26

Method: Headspace Injection

Description: PID - Channel 1

Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um

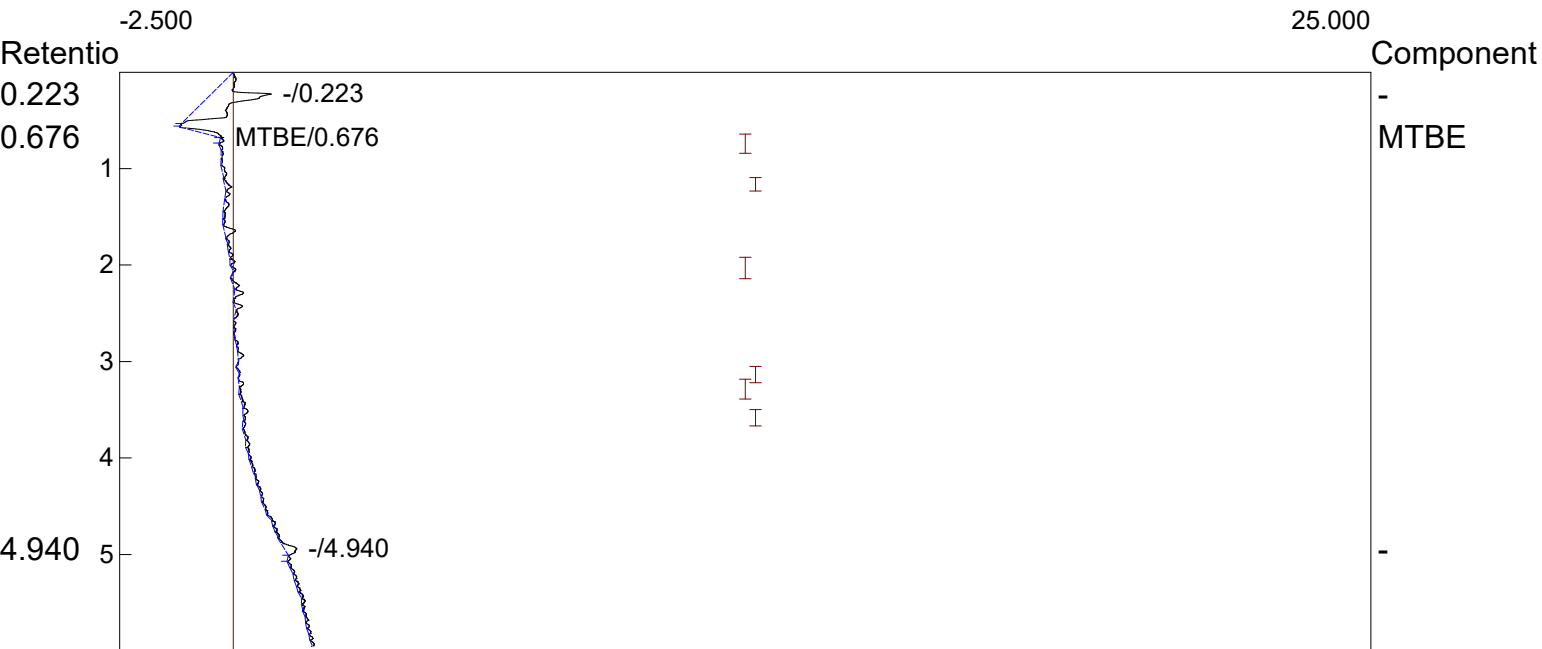
Carrier: He@ 4.2 PSI

Sample: TW-7

Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00



Component	Retention	Area	External	Units
MTBE	0.676	1.4184	10.6538	ppb
		1.4184	10.6538	



Lab name: KLM Environmental, LLC

Collected: 1/28/22

Analysis date: 01/28/2022 12:30:15

Method: Headspace Injection

Description: PID - Channel 1

Column: RESTEK 15M MXT-1, 0.53mmID, 1.00um

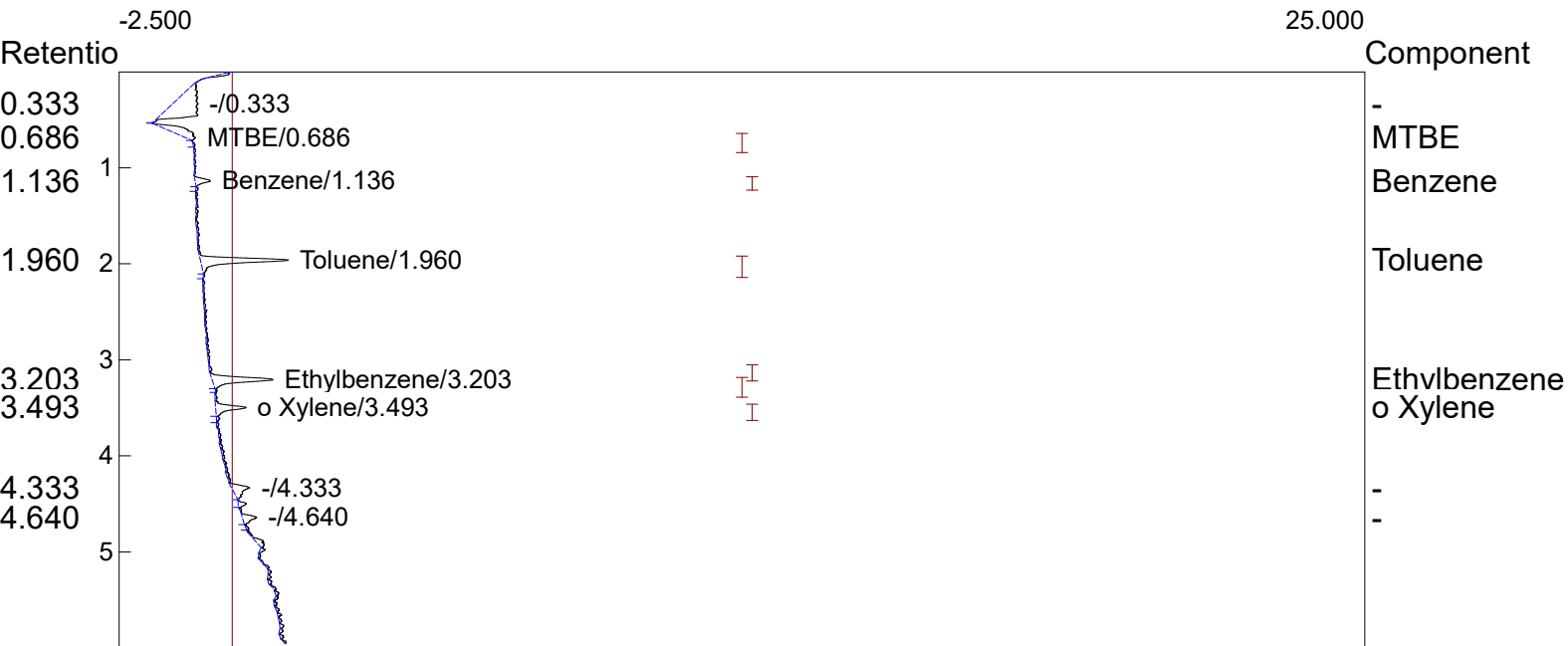
Carrier: He@ 4.2 PSI

Sample: TW-8

Operator: Mark Keller

Temperature program:

Init temp	Hold	Ramp	Final temp
50.00	1.000	15.000	85.00
85.00	0.000	40.000	150.00
150.00	1.000	0.000	150.00



Component	Retention	Area	External	Units
MTBE	0.686	3.1632	23.7592	ppb
Benzene	1.136	1.0616	1.8236	ppb
Toluene	1.960	6.7208	13.7744	ppb
Ethylbenzene	3.203	4.9384	69.6098	ppb
o Xylene	3.493	2.3880	12.1617	ppb
		18.2720	121.1287	

## **APPENDIX E**

### **Well Logs**





Water Well Record  
Bureau of Water  
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

**1. WELL OWNER INFORMATION:**  
Name: Bahuchar Mata, LLC  
(last) (first)  
Address: 311 Oakmonte Circle  
City: Greenwood State: SC Zip: 29649  
Telephone. Work: \_\_\_\_\_ Home: \_\_\_\_\_

**2. LOCATION OF WELL:** COUNTY: Greenwood  
Name: Quick Pantry # 19  
Street Address: 1802 S. Main Street  
City: Greenwood State: SC Zip: \_\_\_\_\_  
Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

**3. PUBLIC SYSTEM NAME:** \_\_\_\_\_ **PUBLIC SYSTEM NUMBER:** 04785 GP-1

**4. ABANDONMENT:**  Yes  No  
Grouted Depth: from 0 ft. to 10 ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum
Hole abandoned with grout after sample collected.		

**5. REMARKS:**  
  
**6. TYPE:**  Mud Rotary  Jetted  Bored  
 Dug  Air Rotary  Driven  
 Cable tool  Other

**7. PERMIT NUMBER:** UST # 04785

**8. USE:**  
 Residential  Public Supply  Process  
 Irrigation  Air Conditioning  Emergency  
 Test Well  MonitorWell  Replacement

**9. WELL DEPTH (completed)** \_\_\_\_\_ Date Started: 12/13/2021  
10 ft \_\_\_\_\_ ft. Date Completed: 12/13/2021

**10. CASING:**  Threaded  Welded  
Diam.: 1.25 in  
Type:  PVC  Galvanized  
 Steel  Other  
0 in. to 6 ft ft. depth  
\_\_\_\_\_ in. to \_\_\_\_\_ ft. depth  
Height Above  Below   
Surface \_\_\_\_\_ ft  
Weight \_\_\_\_\_ lb./ft.  
Drive Shoe?  Yes  No

**11. SCREEN:** Type: Stainless Steel Diam.: 1.25 in  
Slot/Gauge: 0.010 Length: 4 ft  
Set Between: 6 ft ft. and 10 ft ft. NOTE: MULTIPLE SCREENS  
USE SECOND SHEET  
Sieve Analysis  Yes (please enclose)  No

**12. STATIC WATER LEVEL** \_\_\_\_\_ ft. below land surface after 24 hours

**13. PUMPING LEVEL Below Land Surface.**  
\_\_\_\_\_ ft. after \_\_\_\_\_ hrs. Pumping \_\_\_\_\_ G.P.M  
Pumping Test:  Yes (please enclose)  No  
Yield: \_\_\_\_\_

**14. WATER QUALITY**  
Chemical Analysis  Yes  No Bacterial Analysis  Yes  No  
Please enclose lab results.

**15. ARTIFICIAL FILTER (filter pack)**  Yes  No  
Installed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Effective size \_\_\_\_\_ Uniformity Coefficient \_\_\_\_\_

**16. WELL GROUTED?**  Yes  No  
 Neat Cement  Bentonite  Bentonite/Cement  Other \_\_\_\_\_  
Depth: From 0 ft. to 10 ft ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. \_\_\_\_\_ direction  
Type \_\_\_\_\_  
Well Disinfected  Yes Type: \_\_\_\_\_ Amount: \_\_\_\_\_

**18. PUMP:** Date installed: \_\_\_\_\_ Not installed   
Mfr. Name: \_\_\_\_\_ Model No.: \_\_\_\_\_  
H.P. \_\_\_\_\_ volts \_\_\_\_\_ Length of drop pipe - ft. Capacity \_\_\_\_\_ gpm  
TYPE:  Submersible  Jet (shallow)  Turbine  
 Jet (deep)  Reciprocating  Centrifugal

**19. WELL DRILLER: Mark Keller, PG** CERT. NO.: 1554  
Address: (Print)  
Grandview Holdings, LLC Level A B C D  
205 Stone Gate Lane      
Summerville, SC 29486  
Telephone No.: 843-797-7884 Fax No.: \_\_\_\_\_

**20. WATER WELL DRILLER'S CERTIFICATION:** This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: \_\_\_\_\_ Date: 12/17/2021  
Well Driller

If D Level Driller, provide supervising driller's name:



**Water Well Record**  
**Bureau of Water**  
 2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

**1. WELL OWNER INFORMATION:**  
 Name: Bahuchar Mata, LLC  
 (last) (first)  
 Address: 311 Oakmonte Circle  
 City: Greenwood State: SC Zip: 29649  
 Telephone. Work: \_\_\_\_\_ Home: \_\_\_\_\_

**2. LOCATION OF WELL:** COUNTY: Greenwood  
 Name: Quick Pantry # 19  
 Street Address: 1802 S. Main Street  
 City: Greenwood State: SC Zip: \_\_\_\_\_  
 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

**3. PUBLIC SYSTEM NAME:** PUBLIC SYSTEM NUMBER: 04785 GP-1A

**4. ABANDONMENT:**  Yes  No  
 Grouted Depth: from 0 ft. to 15 ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum
Hole abandoned with grout after sample collected.		

• Indicate Water Bearing Zones  
 (Use a 2nd sheet if needed)

**5. REMARKS:**

**6. TYPE:**  Mud Rotary  Jetted  Bored  
 Dug  Air Rotary  Driven  
 Cable tool  Other

**7. PERMIT NUMBER:** UST # 04785

**8. USE:**  
 Residential  Public Supply  Process  
 Irrigation  Air Conditioning  Emergency  
 Test Well  MonitorWell  Replacement

**9. WELL DEPTH (completed)** Date Started: 12/14/2021  
15 ft. ft. Date Completed: 12/14/21

**10. CASING:**  Threaded  Welded  
 Diam.: 1.25 in  
 Type:  PVC  Galvanized  
 Steel  Other  
0 in. to 11 ft. depth  
 \_\_\_\_\_ in. to \_\_\_\_\_ ft. depth  
 Height Above  Below   
 Surface \_\_\_\_\_ ft  
 Weight \_\_\_\_\_ lb./ft.  
 Drive Shoe?  Yes  No

**11. SCREEN:** Stainless Steel Diam.: 1.25 in  
 Type: \_\_\_\_\_ Length: 4 ft  
 Slot/Gauge: 0.010  
 Set Between: 11 ft. and 15 ft. NOTE: MULTIPLE SCREENS USE SECOND SHEET  
 \_\_\_\_\_ ft. and \_\_\_\_\_ ft.  
 Sieve Analysis  Yes (please enclose)  No

**12. STATIC WATER LEVEL** \_\_\_\_\_ ft. below land surface after 24 hours

**13. PUMPING LEVEL Below Land Surface.**  
 \_\_\_\_\_ ft. after \_\_\_\_\_ hrs. Pumping \_\_\_\_\_ G.P.M  
 Pumping Test:  Yes (please enclose)  No  
 Yield: \_\_\_\_\_

**14. WATER QUALITY**  
 Chemical Analysis  Yes  No Bacterial Analysis  Yes  No  
 Please enclose lab results.

**15. ARTIFICIAL FILTER (filter pack)**  Yes  No  
 Installed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Effective size \_\_\_\_\_ Uniformity Coefficient \_\_\_\_\_

**16. WELL GROUTED?**  Yes  No  
 Neat Cement  Bentonite  Bentonite/Cement  Other \_\_\_\_\_  
 Depth: From 0 ft. to 15 ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. \_\_\_\_\_ direction  
 Type \_\_\_\_\_  
 Well Disinfected  Yes Type: \_\_\_\_\_ Amount: \_\_\_\_\_

**18. PUMP:** Date installed: \_\_\_\_\_ Not installed   
 Mfr. Name: \_\_\_\_\_ Model No.: \_\_\_\_\_  
 H.P. \_\_\_\_\_ volts \_\_\_\_\_ Length of drop pipe - ft. Capacity \_\_\_\_\_ gpm  
 TYPE:  Submersible  Jet (shallow)  Turbine  
 Jet (deep)  Reciprocating  Centrifugal

**19. WELL DRILLER: Mark Keller, PG** CERT. NO.: 1554  
 Address: (Print) \_\_\_\_\_  
Grandview Holdings, LLC Level  A  B  C  D  
205 Stone Gate Lane  
Summerville, SC 29486  
 Telephone No.: 843-797-7884 Fax No.: \_\_\_\_\_

**20. WATER WELL DRILLER'S CERTIFICATION:** This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Mark Keller Date: 12/17/2021  
 Well Driller

If D Level Driller, provide supervising driller's name:





## Water Well Record

### Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

**1. WELL OWNER INFORMATION:**  
Name: Bahuchar Mata, LLC  
(last) (first)  
Address: 311 Oakmonte Circle  
City: Greenwood State: SC Zip: 29649  
Telephone Work: \_\_\_\_\_ Home: \_\_\_\_\_

**7. PERMIT NUMBER:** UST # 04785

**8. USE:**  
 Residential  Public Supply  Process  
 Irrigation  Air Conditioning  Emergency  
 Test Well  MonitorWell  Replacement

**2. LOCATION OF WELL:** COUNTY: Greenwood  
Name: Quick Pantry # 19  
Street Address: 1802 S. Main Street  
City: Greenwood State: SC Zip: \_\_\_\_\_  
Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

**9. WELL DEPTH (completed)** Date Started: 12/14/2021  
20 ft \_\_\_\_\_ ft. Date Completed: 12/14/2021

**10. CASING:**  Threaded  Welded  
Diam.: 1.25 in  
Type:  PVC  Galvanized  Steel  Other  
0 \_\_\_\_\_ in. to 16 \_\_\_\_\_ ft. depth  
\_\_\_\_\_ in. to \_\_\_\_\_ ft. depth

Height Above  Below   
Surface \_\_\_\_\_ ft  
Weight \_\_\_\_\_ lb./ft.  
Drive Shoe?  Yes  No

**3. PUBLIC SYSTEM NAME:** \_\_\_\_\_ **PUBLIC SYSTEM NUMBER:** 04785 GP-1B

**11. SCREEN:** Stainless Steel Diam.: 1.25 in  
Type: \_\_\_\_\_ Slot/Gauge: 0.010 Length: 4 ft  
Set Between: 16 \_\_\_\_\_ ft. and 20 \_\_\_\_\_ ft. NOTE: MULTIPLE SCREENS  
USE SECOND SHEET  
Sieve Analysis  Yes (please enclose)  No

**4. ABANDONMENT:**  Yes  No  
Grouted Depth: from 0 \_\_\_\_\_ ft. to 20 ft \_\_\_\_\_ ft.

**12. STATIC WATER LEVEL** \_\_\_\_\_ ft. below land surface after 24 hours

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum
Hole abandoned with grout after sample collected.		

**13. PUMPING LEVEL Below Land Surface.**  
\_\_\_\_\_ ft. after \_\_\_\_\_ hrs. Pumping \_\_\_\_\_ G.P.M.  
Pumping Test:  Yes (please enclose)  No  
Yield: \_\_\_\_\_

**14. WATER QUALITY**  
Chemical Analysis  Yes  No Bacterial Analysis  Yes  No  
Please enclose lab results.

**15. ARTIFICIAL FILTER (filter pack)**  Yes  No  
Installed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Effective size \_\_\_\_\_ Uniformity Coefficient \_\_\_\_\_

**16. WELL GROUTED?**  Yes  No  
 Neat Cement  Bentonite  Bentonite/Cement  Other \_\_\_\_\_  
Depth: From 0 \_\_\_\_\_ ft. to 20 \_\_\_\_\_ ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. \_\_\_\_\_ direction  
Type \_\_\_\_\_  
Well Disinfected  Yes Type: \_\_\_\_\_ Amount: \_\_\_\_\_

**18. PUMP:** Date installed: \_\_\_\_\_ Not installed   
Mfr. Name: \_\_\_\_\_ Model No.: \_\_\_\_\_  
H.P. \_\_\_\_\_ volts \_\_\_\_\_ Length of drop pipe - ft. Capacity \_\_\_\_\_ gpm  
TYPE:  Submersible  Jet (shallow)  Turbine  
 Jet (deep)  Reciprocating  Centrifugal

**19. WELL DRILLER:** Mark Keller, PG CERT. NO.: 1554  
Address: (Print) \_\_\_\_\_  
Grandview Holdings, LLC Level A B C D  
205 Stone Gate Lane      
Summerville, SC 29486  
Telephone No.: 843-797-7884 Fax No.: \_\_\_\_\_

• Indicate Water Bearing Zones  
(Use a 2nd sheet if needed)

**20. WATER WELL DRILLER'S CERTIFICATION:** This well was drilled under my direction and this report is true to the best of my knowledge and belief.

**5. REMARKS:**

Signed: Mark Keller Date: 12/17/2021  
Well Driller

**6. TYPE:**  Mud Rotary  Jetted  Bored  
 Dug  Air Rotary  Driven  
 Cable tool  Other

If D Level Driller, provide supervising driller's name:



**Water Well Record**  
**Bureau of Water**  
 2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

**1. WELL OWNER INFORMATION:**  
 Name: Bahuchar Mata, LLC  
(last) (first)  
 Address: 311 Oakmonte Circle  
 City: Greenwood State: SC Zip: 29649  
 Telephone. Work: \_\_\_\_\_ Home: \_\_\_\_\_

**7. PERMIT NUMBER:** UST # 04785

**8. USE:**  
 Residential  Public Supply  Process  
 Irrigation  Air Conditioning  Emergency  
 Test Well  MonitorWell  Replacement

**9. WELL DEPTH (completed)** Date Started: 12/13/2021  
10 ft. ft. Date Completed: 12/13/2021

**2. LOCATION OF WELL:** COUNTY: Greenwood  
 Name: Quick Pantry # 19  
 Street Address: 1802 S. Main Street  
 City: Greenwood State: SC Zip: \_\_\_\_\_  
 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

**10. CASING:**  Threaded  Welded  
 Diam.: 1.25 in  
 Type:  PVC  Galvanized  
 Steel  Other  
0 in. to 6 ft ft. depth  
 \_\_\_\_\_ in. to \_\_\_\_\_ ft. depth

Height Above  Below   
 Surface \_\_\_\_\_ ft  
 Weight \_\_\_\_\_ lb./ft.  
 Drive Shoe?  Yes  No

**3. PUBLIC SYSTEM NAME:** PUBLIC SYSTEM NUMBER:  
04785 GP-2

**11. SCREEN:** Stainless Steel Diam.: 1.25 in  
 Type: \_\_\_\_\_ Length: 4 ft  
 Slot/Gauge: 0.010  
 Set Between: 6 ft ft. and 10 ft ft. NOTE: MULTIPLE SCREENS USE SECOND SHEET  
 \_\_\_\_\_ ft. and \_\_\_\_\_ ft.  
 Sieve Analysis  Yes (please enclose)  No

**4. ABANDONMENT:**  Yes  No  
 Grouted Depth: from 0 ft. to 10 ft ft.

Formation Description	• Thickness of Stratum	Depth to Bottom of Stratum
Hole abandoned with grout after sample collected.		

**12. STATIC WATER LEVEL** \_\_\_\_\_ ft. below land surface after 24 hours

**13. PUMPING LEVEL Below Land Surface.**  
 \_\_\_\_\_ ft. after \_\_\_\_\_ hrs. Pumping \_\_\_\_\_ G.P.M.  
 Pumping Test:  Yes (please enclose)  No  
 Yield: \_\_\_\_\_

**14. WATER QUALITY**  
 Chemical Analysis  Yes  No Bacterial Analysis  Yes  No  
 Please enclose lab results.

**15. ARTIFICIAL FILTER (filter pack)**  Yes  No  
 Installed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Effective size \_\_\_\_\_ Uniformity Coefficient \_\_\_\_\_

**16. WELL GROUDED?**  Yes  No  
 Neat Cement  Bentonite  Bentonite/Cement  Other \_\_\_\_\_  
 Depth: From 0 ft. to 10 ft ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. \_\_\_\_\_ direction  
 Type \_\_\_\_\_  
 Well Disinfected  Yes Type: \_\_\_\_\_ Amount: \_\_\_\_\_

**18. PUMP:** Date installed: \_\_\_\_\_ Not installed   
 Mfr. Name: \_\_\_\_\_ Model No.: \_\_\_\_\_  
 H.P. \_\_\_\_\_ volts \_\_\_\_\_ Length of drop pipe - ft. Capacity \_\_\_\_\_ gpm  
 TYPE:  Submersible  Jet (shallow)  Turbine  
 Jet (deep)  Reciprocating  Centrifugal

**19. WELL DRILLER: Mark Keller, PG** CERT. NO.: 1554  
 Address: (Print) \_\_\_\_\_  
Grandview Holdings, LLC Level A B C D  
205 Stone Gate Lane      
Summerville, SC 29486  
 Telephone No.: 843-797-7884 Fax No.: \_\_\_\_\_

• Indicate Water Bearing Zones  
 (Use a 2nd sheet if needed)

**5. REMARKS:**

**20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.**

Signed:  Date: 12/17/2021  
 Well Driller

**6. TYPE:**  Mud Rotary  Jetted  Bored  
 Dug  Air Rotary  Driven  
 Cable tool  Other

If D Level Driller, provide supervising driller's name: \_\_\_\_\_





## Water Well Record

### Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:  
 Name: Bahuchar Mata, LLC  
(last) (first)  
 Address: 311 Oakmonte Circle  
 City: Greenwood State: SC Zip: 29649  
 Telephone: Work: \_\_\_\_\_ Home: \_\_\_\_\_

2. LOCATION OF WELL: COUNTY: Greenwood  
 Name: Quick Pantry # 19  
 Street Address: 1802 S. Main Street  
 City: Greenwood State: SC Zip: \_\_\_\_\_  
 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

3. PUBLIC SYSTEM NAME: \_\_\_\_\_ PUBLIC SYSTEM NUMBER: 04785 GP-3

4. ABANDONMENT:  Yes  No  
 Grouted Depth: from 0 ft. to 10 ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum
Hole abandoned with grout after sample collected.		

• Indicate Water Bearing Zones  
 (Use a 2nd sheet if needed)

5. REMARKS:

6. TYPE:  Mud Rotary  Jetted  Bored  
 Dug  Air Rotary  Driven  
 Cable tool  Other

7. PERMIT NUMBER: UST # 04785

8. USE:  
 Residential  Public Supply  Process  
 Irrigation  Air Conditioning  Emergency  
 Test Well  MonitorWell  Replacement

9. WELL DEPTH (completed) \_\_\_\_\_ Date Started: 12/13/2021  
10 ft \_\_\_\_\_ ft. Date Completed: 12/13/2021

10. CASING:  Threaded  Welded  
 Diam.: 1.25 in  
 Type:  PVC  Galvanized  
 Steel  Other  
0 in. to 6 ft. depth  
 \_\_\_\_\_ in. to \_\_\_\_\_ ft. depth  
 Height Above  Below   
 Surface \_\_\_\_\_ ft  
 Weight \_\_\_\_\_ lb./ft.  
 Drive Shoe?  Yes  No

11. SCREEN: Stainless Steel Diam.: 1.25 in  
 Type: \_\_\_\_\_ Length: 4 ft  
 Slot/Gauge: 0.010  
 Set Between: 6 ft \_\_\_\_\_ ft. and 10 ft \_\_\_\_\_ ft.  
 \_\_\_\_\_ ft. and \_\_\_\_\_ ft. NOTE: MULTIPLE SCREENS USE SECOND SHEET  
 Sieve Analysis  Yes (please enclose)  No

12. STATIC WATER LEVEL \_\_\_\_\_ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.  
 \_\_\_\_\_ ft. after \_\_\_\_\_ hrs. Pumping \_\_\_\_\_ G.P.M  
 Pumping Test:  Yes (please enclose)  No  
 Yield: \_\_\_\_\_

14. WATER QUALITY  
 Chemical Analysis  Yes  No Bacterial Analysis  Yes  No  
 Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack)  Yes  No  
 Installed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Effective size \_\_\_\_\_ Uniformity Coefficient \_\_\_\_\_

16. WELL GROUTED?  Yes  No  
 Neat Cement  Bentonite  Bentonite/Cement  Other \_\_\_\_\_  
 Depth: From 0 ft. to 10 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: \_\_\_\_\_ ft. \_\_\_\_\_ direction  
 Type \_\_\_\_\_  
 Well Disinfected  Yes Type: \_\_\_\_\_ Amount: \_\_\_\_\_

18. PUMP: Date installed: \_\_\_\_\_ Not installed   
 Mfr. Name: \_\_\_\_\_ Model No.: \_\_\_\_\_  
 H.P. \_\_\_\_\_ volts \_\_\_\_\_ Length of drop pipe - ft. Capacity \_\_\_\_\_ gpm  
 TYPE:  Submersible  Jet (shallow)  Turbine  
 Jet (deep)  Reciprocating  Centrifugal

19. WELL DRILLER: Mark Keller, PG CERT. NO.: 1554  
 Address: (Print) \_\_\_\_\_  
Grandview Holdings, LLC Level A B C D  
205 Stone Gate Lane      
Summerville, SC 29486  
 Telephone No.: 843-797-7884 Fax No.: \_\_\_\_\_

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Mark Keller Date: 12/17/2021  
 Well Driller

If D Level Driller, provide supervising driller's name:



Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: Bahuchar Mata, LLC
Address: 311 Oakmonte Circle
City: Greenwood State: SC Zip: 29649

2. LOCATION OF WELL:
Name: Quick Pantry # 19
Street Address: 1802 S. Main Street
City: Greenwood State: SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
04785 GP-3A

4. ABANDONMENT: [X] Yes [ ] No
Grouted Depth: from 0 ft. to 15 ft.

Table with 3 columns: Formation Description, Thickness of Stratum, Depth to Bottom of Stratum. Row 1: Hole abandoned with grout after sample collected.

Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

5. REMARKS:

6. TYPE: [ ] Mud Rotary [ ] Jetted [ ] Bored [ ] Dug [ ] Air Rotary [X] Driven [ ] Cable tool [ ] Other

7. PERMIT NUMBER: UST # 04785

8. USE: [ ] Residential [ ] Public Supply [ ] Process [ ] Irrigation [ ] Air Conditioning [ ] Emergency [X] Test Well [ ] MonitorWell [ ] Replacement

9. WELL DEPTH (completed) Date Started: 12/14/2021
15 ft ft. Date Completed: 12/14/2021

10. CASING: [X] Threaded [ ] Welded
Diam.: 1.25 in
Type: [X] PVC [ ] Galvanized [ ] Steel [ ] Other
0 in. to 11 ft. depth

11. SCREEN: Stainless Steel
Type: Stainless Steel Diam.: 1.25 in
Slot/Gauge: 0.010 Length: 4 ft
Set Between: 11 ft. and 15 ft. NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis [ ] Yes (please enclose) [X] No

12. STATIC WATER LEVEL \_\_\_\_\_ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
\_\_\_\_\_ ft. after \_\_\_\_\_ hrs. Pumping \_\_\_\_\_ G.P.M
Pumping Test: [ ] Yes (please enclose) [X] No
Yield: \_\_\_\_\_

14. WATER QUALITY
Chemical Analysis [X] Yes [ ] No Bacterial Analysis [ ] Yes [X] No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) [ ] Yes [X] No
Installed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.
Effective size \_\_\_\_\_ Uniformity Coefficient \_\_\_\_\_

16. WELL GROUTED? [X] Yes [ ] No
[X] Neat Cement [ ] Bentonite [ ] Bentonite/Cement [ ] Other \_\_\_\_\_
Depth: From 0 ft. to 15 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: \_\_\_\_\_ ft. \_\_\_\_\_ direction
Type \_\_\_\_\_
Well Disinfected [ ] Yes Type: \_\_\_\_\_ Amount: \_\_\_\_\_

18. PUMP: Date installed: \_\_\_\_\_ Not installed [X]
Mfr. Name: \_\_\_\_\_ Model No.: \_\_\_\_\_
H.P. \_\_\_\_\_ volts \_\_\_\_\_ Length of drop pipe - ft. Capacity \_\_\_\_\_ gpm
TYPE: [ ] Submersible [ ] Jet (shallow) [ ] Turbine [ ] Jet (deep) [ ] Reciprocating [ ] Centrifugal

19. WELL DRILLER: Mark Keller, PG CERT. NO.: 1554
Address: (Print) Grandview Holdings, LLC Level A B C D
205 Stone Gate Lane [ ] [X] [ ] [ ]
Summerville, SC 29486
Telephone No.: 843-797-7884 Fax No.:

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: [Signature] Date: 12/17/2021
Well Driller

If D Level Driller, provide supervising driller's name:











Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: Bahuchar Mata, LLC
Address: 311 Oakmonte Circle
City: Greenwood State: SC Zip: 29649

7. PERMIT NUMBER: UST # 04785

2. LOCATION OF WELL:
Name: Quick Pantry # 19
Street Address: 1802 S. Main Street
City: Greenwood State: SC Zip:

8. USE:
Residential [ ] Public Supply [ ] Process [ ]
Irrigation [ ] Air Conditioning [ ] Emergency [ ]
Test Well [X] MonitorWell [ ] Replacement [ ]

9. WELL DEPTH (completed) Date Started: 12/14/2021
15 ft ft. Date Completed: 12/14/2021

10. CASING: [X] Threaded [ ] Welded
Diam.: 1.25 in
Type: [X] PVC [ ] Galvanized [ ] Steel [ ] Other
0 in. to 11 ft. depth

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
04785 GP-5A

11. SCREEN: Stainless Steel Diam.: 1.25 in
Slot/Gauge: 0.010 Length: 4 ft
Set Between: 11 ft. and 15 ft.
Sieve Analysis [ ] Yes (please enclose) [X] No

4. ABANDONMENT: [X] Yes [ ] No
Grouted Depth: from 0 ft. to 15 ft.

12. STATIC WATER LEVEL \_\_\_\_\_ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
\_\_\_\_\_ ft. after \_\_\_\_\_ hrs. Pumping \_\_\_\_\_ G.P.M
Pumping Test: [ ] Yes (please enclose) [X] No
Yield: \_\_\_\_\_

Table with 3 columns: Formation Description, Thickness of Stratum, Depth to Bottom of Stratum. Row 1: Hole abandoned with grout after sample collected.

14. WATER QUALITY
Chemical Analysis [X] Yes [ ] No Bacterial Analysis [ ] Yes [X] No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) [ ] Yes [X] No
Installed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.
Effective size \_\_\_\_\_ Uniformity Coefficient \_\_\_\_\_

16. WELL GROUTED? [X] Yes [ ] No
[X] Neat Cement [ ] Bentonite [ ] Bentonite/Cement [ ] Other
Depth: From 0 ft. to 15 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: \_\_\_\_\_ ft. \_\_\_\_\_ direction
Type \_\_\_\_\_
Well Disinfected [ ] Yes Type: \_\_\_\_\_ Amount: \_\_\_\_\_

18. PUMP: Date installed: \_\_\_\_\_ Not installed [X]
Mfr. Name: \_\_\_\_\_ Model No.: \_\_\_\_\_
H.P. \_\_\_\_\_ volts \_\_\_\_\_ Length of drop pipe - ft. Capacity \_\_\_\_\_ gpm
TYPE: [ ] Submersible [ ] Jet (shallow) [ ] Turbine
[ ] Jet (deep) [ ] Reciprocating [ ] Centrifugal

19. WELL DRILLER: Mark Keller, PG CERT. NO.: 1554
Address: (Print) Grandview Holdings, LLC
205 Stone Gate Lane
Summerville, SC 29486
Telephone No.: 843-797-7884 Fax No.: \_\_\_\_\_

• Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

5. REMARKS:

Signed: [Signature] Date: 12/17/2021
Well Driller

6. TYPE: [ ] Mud Rotary [ ] Jetted [ ] Bored
[ ] Dug [ ] Air Rotary [X] Driven
[ ] Cable tool [ ] Other

If D Level Driller, provide supervising driller's name:







# Water Well Record

## Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

**1. WELL OWNER INFORMATION:**  
 Name: Bahuchar Mata, LLC  
(last) (first)  
 Address: 311 Oakmonte Circle  
 City: Greenwood State: SC Zip: 29649  
 Telephone: Work: \_\_\_\_\_ Home: \_\_\_\_\_

**7. PERMIT NUMBER:** UST # 04785

**8. USE:**

<input type="checkbox"/> Residential	<input type="checkbox"/> Public Supply	<input type="checkbox"/> Process
<input type="checkbox"/> Irrigation	<input type="checkbox"/> Air Conditioning	<input type="checkbox"/> Emergency
<input checked="" type="checkbox"/> Test Well	<input type="checkbox"/> MonitorWell	<input type="checkbox"/> Replacement

**2. LOCATION OF WELL:** COUNTY: Greenwood  
 Name: Quick Pantry # 19  
 Street Address: 1802 S. Main Street  
 City: Greenwood State: SC Zip: \_\_\_\_\_  
 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

**9. WELL DEPTH** (completed) Date Started: 12/14/2021  
15 ft \_\_\_\_\_ ft. Date Completed: 12/14/2021

**10. CASING:**  Threaded  Welded  
 Diam.: 1.25 in  
 Type:  PVC  Galvanized  
 Steel  Other  
0 in. to 11 ft. depth  
 \_\_\_\_\_ in. to \_\_\_\_\_ ft. depth

Height Above  Below   
 Surface \_\_\_\_\_ ft  
 Weight \_\_\_\_\_ lb./ft.  
 Drive Shoe?  Yes  No

**3. PUBLIC SYSTEM NAME:** \_\_\_\_\_ **PUBLIC SYSTEM NUMBER:** 04785 GP-6

**11. SCREEN:** Type: Stainless Steel Diam.: 1.25 in  
 Slot/Gauge: 0.010 Length: 4 ft  
 Set Between: 11 ft. and 15 ft. NOTE: MULTIPLE SCREENS USE SECOND SHEET  
 \_\_\_\_\_ ft. and \_\_\_\_\_ ft.  
 Sieve Analysis  Yes (please enclose)  No

**4. ABANDONMENT:**  Yes  No  
 Grouted Depth: from 0 ft. to 15 ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum
Hole abandoned with grout after sample collected.		

**12. STATIC WATER LEVEL** \_\_\_\_\_ ft. below land surface after 24 hours

**13. PUMPING LEVEL Below Land Surface.**  
 \_\_\_\_\_ ft. after \_\_\_\_\_ hrs. Pumping \_\_\_\_\_ G.P.M  
 Pumping Test:  Yes (please enclose)  No  
 Yield: \_\_\_\_\_

**14. WATER QUALITY**  
 Chemical Analysis  Yes  No Bacterial Analysis  Yes  No  
 Please enclose lab results.

**15. ARTIFICIAL FILTER (filter pack)**  Yes  No  
 Installed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Effective size \_\_\_\_\_ Uniformity Coefficient \_\_\_\_\_

**16. WELL GROUTED?**  Yes  No  
 Neat Cement  Bentonite  Bentonite/Cement  Other \_\_\_\_\_  
 Depth: From 0 ft. to 15 ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. \_\_\_\_\_ direction  
 Type \_\_\_\_\_  
 Well Disinfected  Yes Type: \_\_\_\_\_ Amount: \_\_\_\_\_

**18. PUMP:** Date installed: \_\_\_\_\_ Not installed   
 Mfr. Name: \_\_\_\_\_ Model No.: \_\_\_\_\_  
 H.P. \_\_\_\_\_ volts \_\_\_\_\_ Length of drop pipe - ft. Capacity \_\_\_\_\_ gpm  
 TYPE:  Submersible  Jet (shallow)  Turbine  
 Jet (deep)  Reciprocating  Centrifugal

**19. WELL DRILLER:** Mark Keller, PG CERT. NO.: 1554  
 Address: (Print) \_\_\_\_\_  
Grandview Holdings, LLC Level A  B  C  D  
205 Stone Gate Lane  
Summerville, SC 29486  
 Telephone No.: 843-797-7884 Fax No.: \_\_\_\_\_

**• Indicate Water Bearing Zones**  
 (Use a 2nd sheet if needed)

**5. REMARKS:**

**20. WATER WELL DRILLER'S CERTIFICATION:** This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: \_\_\_\_\_ Date: 12/17/2021  
Well Driller

**6. TYPE:**  Mud Rotary  Jetted  Bored  
 Dug  Air Rotary  Driven  
 Cable tool  Other

If D Level Driller, provide supervising driller's name:



# Water Well Record

## Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:  
 Name: **Bahuchar Mata, LLC**  
(last) (first)  
 Address: **311 Oakmonte Circle**  
 City: **Greenwood** State: **SC** Zip: **29649**  
 Telephone: Work: \_\_\_\_\_ Home: \_\_\_\_\_

2. LOCATION OF WELL: COUNTY: **Greenwood**  
 Name: **Quick Pantry # 19**  
 Street Address: **1802 S. Main Street**  
 City: **Greenwood** State: **SC** Zip: \_\_\_\_\_  
 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

3. PUBLIC SYSTEM NAME: \_\_\_\_\_ PUBLIC SYSTEM NUMBER: **04785 GP-7**

4. ABANDONMENT:  Yes  No  
 Grouted Depth: from **0** ft. to **15** ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum
Hole abandoned with grout after sample collected.		

• Indicate Water Bearing Zones  
 (Use a 2nd sheet if needed)

5. REMARKS:

6. TYPE:  Mud Rotary  Jetted  Bored  
 Dug  Air Rotary  Driven  
 Cable tool  Other

7. PERMIT NUMBER: **UST # 04785**

8. USE:  
 Residential  Public Supply  Process  
 Irrigation  Air Conditioning  Emergency  
 Test Well  MonitorWell  Replacement

9. WELL DEPTH (completed) Date Started: **12/14/2021**  
**15** ft \_\_\_\_\_ ft. Date Completed: **12/14/2021**

10. CASING:  Threaded  Welded  
 Diam.: **1.25 in**  
 Type:  PVC  Galvanized  
 Steel  Other  
**0** in. to **11** ft. depth  
 \_\_\_\_\_ in. to \_\_\_\_\_ ft. depth  
 Height Above  Below   
 Surface \_\_\_\_\_ ft  
 Weight \_\_\_\_\_ lb./ft.  
 Drive Shoe?  Yes  No

11. SCREEN: **Stainless Steel** Diam.: **1.25 in**  
 Type: \_\_\_\_\_ Length: **4 ft**  
 Slot/Gauge: **0.010**  
 Set Between: **11** ft. and **15** ft. NOTE: MULTIPLE SCREENS USE SECOND SHEET  
 \_\_\_\_\_ ft. and \_\_\_\_\_ ft.  
 Sieve Analysis  Yes (please enclose)  No

12. STATIC WATER LEVEL \_\_\_\_\_ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.  
 \_\_\_\_\_ ft. after \_\_\_\_\_ hrs. Pumping \_\_\_\_\_ G.P.M.  
 Pumping Test:  Yes (please enclose)  No  
 Yield: \_\_\_\_\_

14. WATER QUALITY  
 Chemical Analysis  Yes  No Bacterial Analysis  Yes  No  
 Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack)  Yes  No  
 Installed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Effective size \_\_\_\_\_ Uniformity Coefficient \_\_\_\_\_

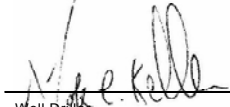
16. WELL GROUDED?  Yes  No  
 Neat Cement  Bentonite  Bentonite/Cement  Other \_\_\_\_\_  
 Depth: From **0** ft. to **15** ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: \_\_\_\_\_ ft. \_\_\_\_\_ direction  
 Type \_\_\_\_\_  
 Well Disinfected  Yes Type: \_\_\_\_\_ Amount: \_\_\_\_\_

18. PUMP: Date installed: \_\_\_\_\_ Not installed   
 Mfr. Name: \_\_\_\_\_ Model No.: \_\_\_\_\_  
 H.P. \_\_\_\_\_ volts \_\_\_\_\_ Length of drop pipe - ft. Capacity \_\_\_\_\_ gpm  
 TYPE:  Submersible  Jet (shallow)  Turbine  
 Jet (deep)  Reciprocating  Centrifugal

19. WELL DRILLER: **Mark Keller, PG** CERT. NO.: **1554**  
 Address: (Print) **Grandview Holdings, LLC** Level A  B  C  D  
**205 Stone Gate Lane**  
**Summerville, SC 29486**  
 Telephone No.: **843-797-7884** Fax No.: \_\_\_\_\_

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed:  Date: **12/17/2021**  
 Well Driller

If D Level Driller, provide supervising driller's name:





## Water Well Record

### Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

**1. WELL OWNER INFORMATION:**  
 Name: Bahuchar Mata, LLC  
(last) (first)  
 Address: 311 Oakmonte Circle  
 City: Greenwood State: SC Zip: 29649  
 Telephone: Work: \_\_\_\_\_ Home: \_\_\_\_\_

**2. LOCATION OF WELL:** COUNTY: Greenwood  
 Name: Quick Pantry # 19  
 Street Address: 1802 S. Main Street  
 City: Greenwood State: SC Zip: \_\_\_\_\_  
 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

**3. PUBLIC SYSTEM NAME:** PUBLIC SYSTEM NUMBER: 04785 GP-8

**4. ABANDONMENT:**  Yes  No  
 Grouted Depth: from 0 ft. to 15 ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum
Hole abandoned with grout after sample collected.		

• Indicate Water Bearing Zones  
 (Use a 2nd sheet if needed)

**5. REMARKS:**

**6. TYPE:**  Mud Rotary  Jetted  Bored  
 Dug  Air Rotary  Driven  
 Cable tool  Other

**7. PERMIT NUMBER:** UST # 04785

**8. USE:**  
 Residential  Public Supply  Process  
 Irrigation  Air Conditioning  Emergency  
 Test Well  MonitorWell  Replacement

**9. WELL DEPTH (completed)** Date Started: 12/14/2021  
15 ft. \_\_\_\_\_ ft. Date Completed: 12/14/2021

**10. CASING:**  Threaded  Welded  
 Diam.: 1.25 in  
 Type:  PVC  Galvanized  
 Steel  Other  
0 in. to 11 ft. depth  
 \_\_\_\_\_ in. to \_\_\_\_\_ ft. depth  
 Height Above  Below   
 Surface \_\_\_\_\_ ft.  
 Weight \_\_\_\_\_ lb./ft.  
 Drive Shoe?  Yes  No

**11. SCREEN:** Type: Stainless Steel Diam.: 1.25 in  
 Slot/Gauge: 0.010 Length: 4 ft  
 Set Between: 11 ft. and 15 ft. NOTE: MULTIPLE SCREENS USE SECOND SHEET  
 \_\_\_\_\_ ft. and \_\_\_\_\_ ft.  
 Sieve Analysis  Yes (please enclose)  No

**12. STATIC WATER LEVEL** \_\_\_\_\_ ft. below land surface after 24 hours

**13. PUMPING LEVEL Below Land Surface.**  
 \_\_\_\_\_ ft. after \_\_\_\_\_ hrs. Pumping \_\_\_\_\_ G.P.M.  
 Pumping Test:  Yes (please enclose)  No  
 Yield: \_\_\_\_\_

**14. WATER QUALITY**  
 Chemical Analysis  Yes  No Bacterial Analysis  Yes  No  
 Please enclose lab results.

**15. ARTIFICIAL FILTER (filter pack)**  Yes  No  
 Installed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Effective size \_\_\_\_\_ Uniformity Coefficient \_\_\_\_\_

**16. WELL GROUTED?**  Yes  No  
 Neat Cement  Bentonite  Bentonite/Cement  Other \_\_\_\_\_  
 Depth: From 0 ft. to 15 ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. \_\_\_\_\_ direction  
 Type \_\_\_\_\_  
 Well Disinfected  Yes Type: \_\_\_\_\_ Amount: \_\_\_\_\_

**18. PUMP:** Date installed: \_\_\_\_\_ Not installed   
 Mfr. Name: \_\_\_\_\_ Model No.: \_\_\_\_\_  
 H.P. \_\_\_\_\_ volts \_\_\_\_\_ Length of drop pipe - ft. Capacity \_\_\_\_\_ gpm  
 TYPE:  Submersible  Jet (shallow)  Turbine  
 Jet (deep)  Reciprocating  Centrifugal

**19. WELL DRILLER:** Mark Keller, PG CERT. NO.: 1554  
 Address: (Print) \_\_\_\_\_  
Grandview Holdings, LLC Level A B C D  
205 Stone Gate Lane      
Summerville, SC 29486  
 Telephone No.: 843-797-7884 Fax No.: \_\_\_\_\_

**20. WATER WELL DRILLER'S CERTIFICATION:** This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Mark Keller Date: 12/17/2021  
Well Driller

If D Level Driller, provide supervising driller's name:







Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: Bahuchar Mata, LLC
Address: 311 Oakmonte Circle
City: Greenwood State: SC Zip: 29649

7. PERMIT NUMBER: UST # 04785

2. LOCATION OF WELL:
Name: Quick Pantry # 19
Street Address: 1802 S. Main Street
City: Greenwood State: SC Zip:
Latitude: Longitude:

8. USE:
Residential Irrigation Test Well Public Supply Air Conditioning MonitorWell Process Emergency Replacement

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
04785 GP-10

9. WELL DEPTH (completed) Date Started: 12/14/2021
15 ft ft. Date Completed: 12/14/2021

4. ABANDONMENT: Yes No
Grouted Depth: from 0 ft. to 15 ft. ft.

10. CASING: Threaded Welded
Diam.: 1.25 in
Type: PVC Galvanized Steel Other
0 in. to 11 ft. depth
Height Above Surface Weight Drive Shoe?

Table with 3 columns: Formation Description, Thickness of Stratum, Depth to Bottom of Stratum. Includes note: Hole abandoned with grout after sample collected.

11. SCREEN: Stainless Steel
Type: Stainless Steel Diam.: 1.25 in
Slot/Gauge: 0.010 Length: 4 ft
Set Between: 11 ft. and 15 ft.
Sieve Analysis Yes No

12. STATIC WATER LEVEL ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
ft. after hrs. Pumping G.P.M
Pumping Test: Yes No
Yield:

14. WATER QUALITY
Chemical Analysis Yes No Bacterial Analysis Yes No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) Yes No
Installed from ft. to ft.
Effective size Uniformity Coefficient

16. WELL GROUTED? Yes No
Neat Cement Bentonite Bentonite/Cement Other
Depth: From 0 ft. to 15 ft. ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected Yes Type: Amount:

18. PUMP: Date installed: Not installed X
Mfr. Name: Model No.:
H.P. volts Length of drop pipe - ft. Capacity gpm
TYPE: Submersible Jet (shallow) Turbine
Jet (deep) Reciprocating Centrifugal

19. WELL DRILLER: Mark Keller, PG CERT. NO.: 1554
Address: Grandview Holdings, LLC
205 Stone Gate Lane
Summerville, SC 29486
Telephone No.: 843-797-7884 Fax No.:

Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

5. REMARKS:

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Mark Keller Well Driller Date: 12/17/2021

6. TYPE: Mud Rotary Jetted Bored
Dug Air Rotary Driven
Cable tool Other

If D Level Driller, provide supervising driller's name:





**Water Well Record**  
**Bureau of Water**  
 2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:  
 Name: Bahuchar Mata, LLC  
 (last) (first)  
 Address: 311 Oakmonte Circle  
 City: Greenwood State: SC Zip: 29649  
 Telephone: Work: \_\_\_\_\_ Home: \_\_\_\_\_

2. LOCATION OF WELL: COUNTY: Greenwood  
 Name: Quick Pantry # 19  
 Street Address: 1802 S. Main Street  
 City: Greenwood State: SC Zip: \_\_\_\_\_  
 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

3. PUBLIC SYSTEM NAME: \_\_\_\_\_ PUBLIC SYSTEM NUMBER: 04785 GP-12

4. ABANDONMENT:  Yes  No  
 Grouted Depth: from 0 ft. to 15 ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum
Hole abandoned with grout after sample collected.		

• Indicate Water Bearing Zones  
 (Use a 2nd sheet if needed)

5. REMARKS:

6. TYPE:  Mud Rotary  Jetted  Bored  
 Dug  Air Rotary  Driven  
 Cable tool  Other

7. PERMIT NUMBER: UST # 04785

8. USE:  
 Residential  Public Supply  Process  
 Irrigation  Air Conditioning  Emergency  
 Test Well  MonitorWell  Replacement

9. WELL DEPTH (completed) Date Started: 12/14/2021  
15 ft. ft. Date Completed: 12/14/2021

10. CASING:  Threaded  Welded  
 Diam.: 1.25 in  
 Type:  PVC  Galvanized  
 Steel  Other  
0 in. to 11 ft. depth  
 \_\_\_\_\_ in. to \_\_\_\_\_ ft. depth  
 Height Above  Below   
 Surface \_\_\_\_\_ ft  
 Weight \_\_\_\_\_ lb./ft.  
 Drive Shoe?  Yes  No

11. SCREEN: Stainless Steel Diam.: 1.25 in  
 Type: \_\_\_\_\_ Length: 4 ft  
 Slot/Gauge: 0.010  
 Set Between: 11 ft. and 15 ft. NOTE: MULTIPLE SCREENS USE SECOND SHEET  
 \_\_\_\_\_ ft. and \_\_\_\_\_ ft.  
 Sieve Analysis  Yes (please enclose)  No

12. STATIC WATER LEVEL \_\_\_\_\_ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.  
 \_\_\_\_\_ ft. after \_\_\_\_\_ hrs. Pumping \_\_\_\_\_ G.P.M  
 Pumping Test:  Yes (please enclose)  No  
 Yield: \_\_\_\_\_

14. WATER QUALITY  
 Chemical Analysis  Yes  No Bacterial Analysis  Yes  No  
 Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack)  Yes  No  
 Installed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Effective size \_\_\_\_\_ Uniformity Coefficient \_\_\_\_\_

16. WELL GROUTED?  Yes  No  
 Neat Cement  Bentonite  Bentonite/Cement  Other \_\_\_\_\_  
 Depth: From 0 ft. to 15 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: \_\_\_\_\_ ft. \_\_\_\_\_ direction  
 Type \_\_\_\_\_  
 Well Disinfected  Yes Type: \_\_\_\_\_ Amount: \_\_\_\_\_

18. PUMP: Date installed: \_\_\_\_\_ Not installed   
 Mfr. Name: \_\_\_\_\_ Model No.: \_\_\_\_\_  
 H.P. \_\_\_\_\_ volts \_\_\_\_\_ Length of drop pipe - ft. Capacity \_\_\_\_\_ gpm  
 TYPE:  Submersible  Jet (shallow)  Turbine  
 Jet (deep)  Reciprocating  Centrifugal

19. WELL DRILLER: Mark Keller, PG CERT. NO.: 1554  
 Address: (Print) \_\_\_\_\_  
Grandview Holdings, LLC Level A B C D  
205 Stone Gate Lane      
Summerville, SC 29486  
 Telephone No.: 843-797-7884 Fax No.: \_\_\_\_\_

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: *Mark Keller* Date: 12/17/2021  
 Well Driller

If D Level Driller, provide supervising driller's name:





Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: Bahuchar Mata, LLC
Address: 311 Oakmonte Circle
City: Greenwood State: SC Zip: 29649

7. PERMIT NUMBER: UST # 04785

2. LOCATION OF WELL:
Name: Quick Pantry # 19
Street Address: 1802 S. Main Street
City: Greenwood State: SC Zip:
Latitude: Longitude:

8. USE:
Residential Public Supply Process
Irrigation Air Conditioning Emergency
Test Well MonitorWell Replacement

9. WELL DEPTH (completed) Date Started: 12/14/2021
15 ft ft. Date Completed: 12/14/2021

10. CASING: Threaded Welded
Diam.: 1.25 in
Type: PVC Galvanized Steel Other
0 in. to 11 ft. depth
Height Above Surface Below Surface
Weight lb./ft.
Drive Shoe? Yes No

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
04785 GP-13

11. SCREEN: Stainless Steel Diam.: 1.25 in
Slot/Gauge: 0.010 Length: 4 ft
Set Between: 11 ft. and 15 ft.
Sieve Analysis Yes (please enclose) No

4. ABANDONMENT: Yes No
Grouted Depth: from 0 ft. to 15 ft.

Table with 3 columns: Formation Description, Thickness of Stratum, Depth to Bottom of Stratum. Row 1: Hole abandoned with grout after sample collected.

12. STATIC WATER LEVEL ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
ft. after hrs. Pumping G.P.M
Pumping Test: Yes (please enclose) No
Yield:

14. WATER QUALITY
Chemical Analysis Yes No Bacterial Analysis Yes No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) Yes No
Installed from ft. to ft.
Effective size Uniformity Coefficient

16. WELL GROUTED? Yes No
Neat Cement Bentonite Bentonite/Cement Other
Depth: From 0 ft. to 15 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected Yes Type: Amount:

18. PUMP: Date installed: Not installed
Mfr. Name: Model No.:
H.P. volts Length of drop pipe - ft. Capacity gpm
TYPE: Submersible Jet (shallow) Turbine
Jet (deep) Reciprocating Centrifugal

19. WELL DRILLER: Mark Keller, PG CERT. NO.: 1554
Address: (Print) Grandview Holdings, LLC
205 Stone Gate Lane
Summerville, SC 29486
Telephone No.: 843-797-7884 Fax No.:

Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

5. REMARKS:

Signed: [Signature] Date: 12/17/2021
Well Driller

6. TYPE: Mud Rotary Jetted Bored
Dug Air Rotary Driven
Cable tool Other

If D Level Driller, provide supervising driller's name:



Water Well Record  
Bureau of Water  
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:  
Name: Bahuchar Mata, LLC  
(last) (first)  
Address: 311 Oakmonte Circle  
City: Greenwood State: SC Zip: 29649  
Telephone Work: \_\_\_\_\_ Home: \_\_\_\_\_

7. PERMIT NUMBER: UST # 04785

8. USE:  
 Residential  Public Supply  Process  
 Irrigation  Air Conditioning  Emergency  
 Test Well  MonitorWell  Replacement

2. LOCATION OF WELL: COUNTY: Greenwood  
Name: Quick Pantry # 19  
Street Address: 1802 S. Main Street  
City: Greenwood State: SC Zip: \_\_\_\_\_  
Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

9. WELL DEPTH (completed) Date Started: 12/14/2021  
20 ft. \_\_\_\_\_ ft. Date Completed: 12/14/2021

10. CASING:  Threaded  Welded  
Diam.: 1.25 in  
Type:  PVC  Galvanized  
 Steel  Other  
0 in. to 16 ft. depth  
\_\_\_\_\_ in. to \_\_\_\_\_ ft. depth  
Height Above  Below   
Surface \_\_\_\_\_ ft.  
Weight \_\_\_\_\_ lb./ft.  
Drive Shoe?  Yes  No

3. PUBLIC SYSTEM NAME: \_\_\_\_\_ PUBLIC SYSTEM NUMBER: 04785 GP-14

11. SCREEN: Stainless Steel Diam.: 1.25 in  
Type: \_\_\_\_\_ Length: 4 ft  
Slot/Gauge: 0.010  
Set Between: 16 ft. and 20 ft. NOTE: MULTIPLE SCREENS  
USE SECOND SHEET  
Sieve Analysis  Yes (please enclose)  No

4. ABANDONMENT:  Yes  No  
Grouted Depth: from 0 ft. to 20 ft.

Formation Description	• Thickness of Stratum	Depth to Bottom of Stratum
Hole abandoned with grout after sample collected.		

12. STATIC WATER LEVEL \_\_\_\_\_ ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.  
\_\_\_\_\_ ft. after \_\_\_\_\_ hrs. Pumping \_\_\_\_\_ G.P.M.  
Pumping Test:  Yes (please enclose)  No  
Yield: \_\_\_\_\_

14. WATER QUALITY  
Chemical Analysis  Yes  No Bacterial Analysis  Yes  No  
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack)  Yes  No  
Installed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
Effective size \_\_\_\_\_ Uniformity Coefficient \_\_\_\_\_

16. WELL GROUTED?  Yes  No  
 Neat Cement  Bentonite  Bentonite/Cement  Other \_\_\_\_\_  
Depth: From 0 ft. to 20 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: \_\_\_\_\_ ft. \_\_\_\_\_ direction  
Type \_\_\_\_\_  
Well Disinfected  Yes Type: \_\_\_\_\_ Amount: \_\_\_\_\_

18. PUMP: Date installed: \_\_\_\_\_ Not installed   
Mfr. Name: \_\_\_\_\_ Model No.: \_\_\_\_\_  
H.P. \_\_\_\_\_ volts \_\_\_\_\_ Length of drop pipe - ft. Capacity \_\_\_\_\_ gpm  
TYPE:  Submersible  Jet (shallow)  Turbine  
 Jet (deep)  Reciprocating  Centrifugal

19. WELL DRILLER: Mark Keller, PG CERT. NO.: 1554  
Address: (Print)  
Grandview Holdings, LLC Level  A  B  C  D  
205 Stone Gate Lane  
Summerville, SC 29486  
Telephone No.: 843-797-7884 Fax No.: \_\_\_\_\_

• Indicate Water Bearing Zones  
(Use a 2nd sheet if needed)

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under  
my direction and this report is true to the best of my knowledge and belief.  
  
Signed: Mark Keller Date: 12/17/2021  
Well Driller

5. REMARKS:

6. TYPE:  Mud Rotary  Jetted  Bored  
 Dug  Air Rotary  Driven  
 Cable tool  Other

If D Level Driller, provide supervising driller's name:



## Water Well Record

### Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

**1. WELL OWNER INFORMATION:**  
 Name: Bahuchar Mata, LLC  
(last) (first)  
 Address: 311 Oakmonte Circle  
 City: Greenwood State: SC Zip: 29649  
 Telephone: Work: \_\_\_\_\_ Home: \_\_\_\_\_

**2. LOCATION OF WELL:** COUNTY: Greenwood  
 Name: Quick Pantry # 19  
 Street Address: 1802 S. Main Street  
 City: Greenwood State: SC Zip: \_\_\_\_\_  
 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

**3. PUBLIC SYSTEM NAME:** PUBLIC SYSTEM NUMBER:  
 \_\_\_\_\_ **04785 GP-15**

**4. ABANDONMENT:**  Yes  No  
 Grouted Depth: from 0 ft. to 20 ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum
Hole abandoned with grout after sample collected.		

**• Indicate Water Bearing Zones**  
 (Use a 2nd sheet if needed)

**5. REMARKS:**

**6. TYPE:**  Mud Rotary  Jetted  Bored  
 Dug  Air Rotary  Driven  
 Cable tool  Other

**7. PERMIT NUMBER:** UST # 04785

**8. USE:**  
 Residential  Public Supply  Process  
 Irrigation  Air Conditioning  Emergency  
 Test Well  MonitorWell  Replacement

**9. WELL DEPTH (completed)** Date Started: 12/14/2021  
20 ft \_\_\_\_\_ ft. Date Completed: 12/14/2021

**10. CASING:**  Threaded  Welded  
 Diam.: 1.25 in  
 Type:  PVC  Galvanized  Steel  Other  
0 in. to 16 ft. depth  
 \_\_\_\_\_ in. to \_\_\_\_\_ ft. depth  
 Height Above  Below   
 Surface \_\_\_\_\_ ft  
 Weight \_\_\_\_\_ lb./ft.  
 Drive Shoe?  Yes  No

**11. SCREEN:** Type: Stainless Steel Diam.: 1.25 in  
 Slot/Gauge: 0.010 Length: 4 ft  
 Set Between: 16 ft. and 20 ft. NOTE: MULTIPLE SCREENS  
 \_\_\_\_\_ ft. and \_\_\_\_\_ ft. USE SECOND SHEET  
 Sieve Analysis  Yes (please enclose)  No

**12. STATIC WATER LEVEL** \_\_\_\_\_ ft. below land surface after 24 hours

**13. PUMPING LEVEL Below Land Surface.**  
 \_\_\_\_\_ ft. after \_\_\_\_\_ hrs. Pumping \_\_\_\_\_ G.P.M  
 Pumping Test:  Yes (please enclose)  No  
 Yield: \_\_\_\_\_

**14. WATER QUALITY**  
 Chemical Analysis  Yes  No Bacterial Analysis  Yes  No  
 Please enclose lab results.

**15. ARTIFICIAL FILTER (filter pack)**  Yes  No  
 Installed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Effective size \_\_\_\_\_ Uniformity Coefficient \_\_\_\_\_

**16. WELL GROUTED?**  Yes  No  
 Neat Cement  Bentonite  Bentonite/Cement  Other \_\_\_\_\_  
 Depth: From 0 ft. to 20 ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. \_\_\_\_\_ direction  
 Type \_\_\_\_\_  
 Well Disinfected  Yes Type: \_\_\_\_\_ Amount: \_\_\_\_\_

**18. PUMP:** Date installed: \_\_\_\_\_ Not installed   
 Mfr. Name: \_\_\_\_\_ Model No.: \_\_\_\_\_  
 H.P. \_\_\_\_\_ volts \_\_\_\_\_ Length of drop pipe - ft. Capacity \_\_\_\_\_ gpm  
 TYPE:  Submersible  Jet (shallow)  Turbine  
 Jet (deep)  Reciprocating  Centrifugal

**19. WELL DRILLER:** Mark Keller, PG CERT. NO.: 1554  
 Address: (Print) \_\_\_\_\_  
Grandview Holdings, LLC Level A  B  C  D  
205 Stone Gate Lane  
Summerville, SC 29486  
 Telephone No.: 843-797-7884 Fax No.: \_\_\_\_\_

**20. WATER WELL DRILLER'S CERTIFICATION:** This well was drilled under  
 my direction and this report is true to the best of my knowledge and belief.  
 Signed: Mark Keller Date: 12/17/2021  
 Well Driller

If D Level Driller, provide supervising driller's name:













Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: Bahuchar Mata, LLC
Address: 311 Oakmonte Circle
City: Greenwood State: SC Zip: 29649

7. PERMIT NUMBER: UST # 04785

2. LOCATION OF WELL:
Name: Quick Pantry # 19
Street Address: 1802 S. Main Street
City: Greenwood State: SC Zip:
Latitude: Longitude:

8. USE:
Residential Public Supply Process
Irrigation Air Conditioning Emergency
Test Well MonitorWell Replacement

9. WELL DEPTH (completed) Date Started: 12/14/2021
25 ft ft. Date Completed: 12/14/2021

10. CASING: Threaded Welded
Diam.: 1.25 in
Type: PVC Galvanized Steel Other
0 in. to 21 ft. depth
Height Above Surface Below Surface
Weight lb./ft.
Drive Shoe? Yes No

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:
04785 GP-19D

11. SCREEN: Stainless Steel Diam.: 1.25 in
Slot/Gauge: 0.010 Length: 4 ft
Set Between: 21 ft. and 25 ft.
Sieve Analysis Yes (please enclose) No

4. ABANDONMENT: Yes No
Grouted Depth: from 0 ft. to 25 ft.

Table with 3 columns: Formation Description, Thickness of Stratum, Depth to Bottom of Stratum. Row 1: Hole abandoned with grout after sample collected.

12. STATIC WATER LEVEL ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
ft. after hrs. Pumping G.P.M
Pumping Test: Yes (please enclose) No
Yield:

14. WATER QUALITY
Chemical Analysis Yes No Bacterial Analysis Yes No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) Yes No
Installed from ft. to ft.
Effective size Uniformity Coefficient

16. WELL GROUTED? Yes No
Neat Cement Bentonite Bentonite/Cement Other
Depth: From 0 ft. to 25 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected Yes Type: Amount:

18. PUMP: Date installed: Not installed
Mfr. Name: Model No.:
H.P. volts Length of drop pipe - ft. Capacity gpm
TYPE: Submersible Jet (shallow) Turbine
Jet (deep) Reciprocating Centrifugal

19. WELL DRILLER: Mark Keller, PG CERT. NO.: 1554
Address: (Print) Grandview Holdings, LLC
205 Stone Gate Lane
Summerville, SC 29486
Telephone No.: 843-797-7884 Fax No.:

Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

5. REMARKS:

Signed: [Signature] Date: 12/17/2021
Well Driller

6. TYPE: Mud Rotary Jetted Bored
Dug Air Rotary Driven
Cable tool Other

If D Level Driller, provide supervising driller's name:









Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: Bahuchar Mata, LLC
Address: 311 Oakmonte Circle
City: Greenwood State: SC Zip: 29649

7. PERMIT NUMBER: UST # 04785

2. LOCATION OF WELL:
Name: Quick Pantry # 19
Street Address: 1802 S. Main Street
City: Greenwood State: SC Zip:

8. USE:
Residential, Irrigation, Test Well, Public Supply, Air Conditioning, MonitorWell, Process, Emergency, Replacement

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER: 04785 GP-22D

9. WELL DEPTH (completed) Date Started: 12/14/2021
25 ft ft. Date Completed: 12/14/2021

4. ABANDONMENT: Yes No
Grouted Depth: from 0 ft. to 25 ft. ft.

10. CASING: Threaded Welded
Diam.: 1.25 in
Type: PVC Galvanized Steel Other
0 in. to 21 ft. depth

Table with 3 columns: Formation Description, Thickness of Stratum, Depth to Bottom of Stratum. Row 1: Hole abandoned with grout after sample collected.

11. SCREEN: Stainless Steel Diam.: 1.25 in
Slot/Gauge: 0.010 Length: 4 ft
Set Between: 21 ft. ft. and 25 ft. ft.
Sieve Analysis Yes (please enclose) No

12. STATIC WATER LEVEL ft. below land surface after 24 hours

13. PUMPING LEVEL Below Land Surface.
ft. after hrs. Pumping G.P.M.
Pumping Test: Yes (please enclose) No
Yield:

14. WATER QUALITY
Chemical Analysis Yes No Bacterial Analysis Yes No
Please enclose lab results.

15. ARTIFICIAL FILTER (filter pack) Yes No
Installed from ft. to ft.
Effective size Uniformity Coefficient

16. WELL GROUTED? Yes No
Neat Cement Bentonite Bentonite/Cement Other
Depth: From 0 ft. to 25 ft. ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected Yes Type: Amount:

18. PUMP: Date installed: Not installed
Mfr. Name: Model No.:
H.P. volts Length of drop pipe - ft. Capacity gpm
TYPE: Submersible Jet (shallow) Turbine
Jet (deep) Reciprocating Centrifugal

19. WELL DRILLER: Mark Keller, PG CERT. NO.: 1554
Address: (Print) Grandview Holdings, LLC
205 Stone Gate Lane Summerville, SC 29486
Telephone No.: 843-797-7884 Fax No.:

Indicate Water Bearing Zones
(Use a 2nd sheet if needed)

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

5. REMARKS:

Signed: Mark Keller Well Driller Date: 12/17/2021

6. TYPE: Mud Rotary Jetted Bored
Dug Air Rotary Driven
Cable tool Other

If D Level Driller, provide supervising driller's name:











## Water Well Record

### Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

**1. WELL OWNER INFORMATION:**  
 Name: Bahuchar Mata, LLC  
(last) (first)  
 Address: 311 Oakmonte Circle  
 City: Greenwood State: SC Zip: 29649  
 Telephone. Work: \_\_\_\_\_ Home: \_\_\_\_\_

**2. LOCATION OF WELL:** COUNTY: Greenwood  
 Name: Quick Pantry # 19  
 Street Address: 1802 S. Main Street  
 City: Greenwood State: SC Zip: \_\_\_\_\_  
 Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_

**3. PUBLIC SYSTEM NAME:** \_\_\_\_\_ **PUBLIC SYSTEM NUMBER:** 04785 TW-4

**4. ABANDONMENT:**  Yes  No  
 Grouted Depth: from 0 ft. to 15 ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum
Hole abandoned with grout after sample collected.		

• Indicate Water Bearing Zones  
 (Use a 2nd sheet if needed)

**5. REMARKS:**

**6. TYPE:**  Mud Rotary  Jetted  Bored  
 Dug  Air Rotary  Driven  
 Cable tool  Other

**7. PERMIT NUMBER:** UST # 04785

**8. USE:**  
 Residential  Public Supply  Process  
 Irrigation  Air Conditioning  Emergency  
 Test Well  MonitorWell  Replacement

**9. WELL DEPTH (completed)** \_\_\_\_\_ Date Started: 12/13/2021  
15 ft \_\_\_\_\_ ft. Date Completed: 12/13/2021

**10. CASING:**  Threaded  Welded  
 Diam.: 1 in  
 Type:  PVC  Galvanized  
 Steel  Other  
0 in. to 5 ft. depth  
 \_\_\_\_\_ in. to \_\_\_\_\_ ft. depth  
 Height Above  Below   
 Surface \_\_\_\_\_ ft  
 Weight \_\_\_\_\_ lb./ft.  
 Drive Shoe?  Yes  No

**11. SCREEN:**  
 Type: PVC Diam.: 1 in  
 Slot/Gauge: 0.010 Length: 10 ft  
 Set Between: 5 ft. and 15 ft. NOTE: MULTIPLE SCREENS  
 \_\_\_\_\_ ft. and \_\_\_\_\_ ft. USE SECOND SHEET  
 Sieve Analysis  Yes (please enclose)  No

**12. STATIC WATER LEVEL** \_\_\_\_\_ ft. below land surface after 24 hours

**13. PUMPING LEVEL Below Land Surface.**  
 \_\_\_\_\_ ft. after \_\_\_\_\_ hrs. Pumping \_\_\_\_\_ G.P.M  
 Pumping Test:  Yes (please enclose)  No  
 Yield: \_\_\_\_\_

**14. WATER QUALITY**  
 Chemical Analysis  Yes  No Bacterial Analysis  Yes  No  
 Please enclose lab results.

**15. ARTIFICIAL FILTER (filter pack)**  Yes  No  
 Installed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.  
 Effective size \_\_\_\_\_ Uniformity Coefficient \_\_\_\_\_

**16. WELL GROUTED?**  Yes  No  
 Neat Cement  Bentonite  Bentonite/Cement  Other \_\_\_\_\_  
 Depth: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**17. NEAREST SOURCE OF POSSIBLE CONTAMINATION:** \_\_\_\_\_ ft. \_\_\_\_\_ direction  
 Type \_\_\_\_\_  
 Well Disinfected  Yes Type: \_\_\_\_\_ Amount: \_\_\_\_\_

**18. PUMP:** Date installed: \_\_\_\_\_ Not installed   
 Mfr. Name: \_\_\_\_\_ Model No.: \_\_\_\_\_  
 H.P. \_\_\_\_\_ volts \_\_\_\_\_ Length of drop pipe - ft. Capacity \_\_\_\_\_ gpm  
 TYPE:  Submersible  Jet (shallow)  Turbine  
 Jet (deep)  Reciprocating  Centrifugal

**19. WELL DRILLER:** Mark Keller, PG CERT. NO.: 1554  
 Address: (Print) \_\_\_\_\_  
Grandview Holdings, LLC Level  A  B  C  D  
205 Stone Gate Lane  
Summerville, SC 29486  
 Telephone No.: 843-797-7884 Fax No.: \_\_\_\_\_

**20. WATER WELL DRILLER'S CERTIFICATION:** This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Mark Keller Date: 12/17/2021  
 Well Driller

If D Level Driller, provide supervising driller's name:













## **APPENDIX F**

### **Aquifer Calculations**

## **APPENDIX G**

### **Disposal Manifest**

## **APPENDIX H**

### **Zoning Information**



## **APPENDIX I**

### **Fate and Transport Modeling**

## **APPENDIX J**

### **Access Agreements**



# KLM Environmental, LLC

Phase I/Phase II Underground Storage Tanks/Soil & Water Sampling/Well Installation  
PO Box 2704  
Goose Creek, SC 29445  
843-870-4285 Phone  
843-797-1893 Fax

21547

April 6, 2021

City of Greenwood  
PO Box 40  
Greenwood, SC 29648

Property Manager:

I am writing to you to inform you that assessment activities to include temporary groundwater screening locations and the installation of monitoring wells on your property has been requested by the South Carolina Department of Health and Environmental Control (SCDHEC) in reference to the Quick Pantry # 19 convenience store located at 1802 Main Street South, Greenwood, SC. Your property is in close proximity to the target property and is listed as PIN # 6855515137. In order to ensure your property is not being affected by any contamination that may be present the SCDHEC needs an assessment performed to determine the extent of identified groundwater contamination currently on the Quick Pantry # 19 property. The points shown on the attached map are only proposed temporary water sample locations. Not all of the locations will be needed as the assessment progresses, locations will be eliminated based on findings in the field. Following the temporary water sample locations, monitoring wells may be requested to be installed at a much lower frequency. The wells will be flush mounted with the ground similar to a water meter cover.

The SCDHEC Project Manager is Ms. Caitlin Reilly and he can be reached at 803-898-3807 should you have any questions regarding the work. The SCDHEC SUPERB Fund and the site owner will pay for all costs of any work performed under the release reported at the site. There is no cost to you for performing this assessment. We are requesting permission to install the temporary water sample points, future requested monitoring wells, and sample periodically to monitor for any contaminants. We would also request permission to collect a sample from any supply well or irrigation well located on your site to ensure it does not contain any contaminants. Please sign where indicated at the bottom of the page and answer the questions as best you can and forward the form back to us in the enclosed envelope.

If you have any questions, you may contact me directly at 843-870-4285.

Sincerely,

**KLM Environmental, LLC**

Mark L. Keller, PG  
President

Please sign below as an indication of permission to install sampling points as the SCDHEC requires.

Printed Name: Ryan Thomas Signature: [Handwritten Signature]

Phone Contact: (864) 942-8411 (c) (317) 370-2797

- Yes    No  
( )    (x)    Do you have or have you ever had an irrigation well installed on this property?
- ( )    (x)    Do you have or have you ever had a drinking supply well installed on this property?



## **APPENDIX K**

### **Checklist**

### Contractor Checklist

For each report submitted to the UST Management Division, the contractor will be required to verify that all data elements for the required scope of work have been provided. For items not required for the scope of work, the N/A box should be checked. For items required and not completed or provided, the "No" box should be checked and a thorough description of the reason must be provided.

Item #	Item	Yes	No	N/A
1	Is Facility Name, Permit #, and address provided?	✓		
2	Is UST Owner/Operator name, address, & phone number provided?	✓		
3	Is name, address, & phone number of current property owner provided?	✓		
4	Is the SCDHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	✓		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?	✓		
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	✓		
7	Has the facility history been summarized?	✓		
8	Has the regional geology and hydrogeology been described?	✓		
9	Are the receptor survey results provided as required?			✓
10	Has current use of the site and adjacent land been described?	✓		
11	Has the site-specific geology and hydrogeology been described?	✓		
12	Has the primary soil type been described?	✓		
13	Have field screening results been described?	✓		
14	Has a description of the soil sample collection and preservation been detailed?			✓
15	Has the field screening methodology and procedure been detailed?	✓		
16	Has the monitoring well installation and development dates been provided?	✓		
17	Has the method of well development been detailed?			✓
18	Has justification been provided for the locations of the monitoring wells?	✓		
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?	✓		
20	Has the groundwater sampling methodology been detailed?	✓		
21	Have the groundwater sampling dates and groundwater measurements been provided?	✓		
22	Has the purging methodology been detailed?			✓
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete?			✓
24	If free-product is present, has the thickness been provided?	✓		
25	Does the report include a brief discussion of the assessment done and the results?	✓		
26	Does the report include a brief discussion of the aquifer evaluation and results?			✓
27	Does the report include a brief discussion of the fate & transport models used?			✓



Item #	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			✓
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)			✓
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)			✓
31	Have recommendations for further action been provided and explained?	✓		
32	Has the soil analytical data for the site been provided in tabular format? (Table 1)			✓
33	Has the potentiometric data for the site been provided in tabular format? (Table 2)	✓		
34	Has the current and historical laboratory data been provided in tabular format?			✓
35	Have the aquifer characteristics been provided and summarized on the appropriate form?			✓
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			✓
37	Has the topographic map been provided with all required elements? (Figure 1)	✓		
38	Has the site base map been provided with all required elements? (Figure 2)	✓		
39	Have the CoC site maps been provided? (Figure 3 & Figure 4)	✓		
40	Has the site potentiometric map been provided? (Figure 5)			✓
41	Have the geologic cross-sections been provided? (Figure 6)			✓
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			✓
43	Has the site survey been provided and include all necessary elements? (Appendix A)	✓		
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)			✓
45	Is the laboratory performing the analyses properly certified?	✓		
46	Has the tax map been included with all necessary elements? (Appendix C)			✓
47	Have the soil boring/field screening logs been provided? (Appendix D)			✓
48	Have the well completion logs, DHEC Form 2099, and DHEC Form 1903 been provided? (Appendix E)	✓		
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			✓
50	Have the disposal manifests been provided? (Appendix G)			✓
51	Has a copy of the local zoning regulations been provided? (Appendix H)			✓
52	Has all fate and transport modeling been provided? (Appendix I)			✓
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			✓
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?	✓		





UST # 04785 - Quick Pantry 19 AFVR Report 1-19-22

Graham Robinson <grobinson2019@comcast.net>

Tue 2/15/2022 9:59 AM

To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>

Cc: mkeller131@comcast.net <mkeller131@comcast.net>

\*\*\* Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. \*\*\*

Hi Caitlin,

This is the second report for the recent set of AFVRs at Quick Pantry # 19. Let us know if you need anything else!

Thanks,

Graham Robinson

KLM Environmental, LLC

PO Box 2704

Goose Creek, SC, 29445

Phone: 985-789-3065





# KLM Environmental, LLC

Phase I Phase II Underground Storage Tanks Soil & Water Sampling Well Installation  
PO Box 2704 843-870-4285 Phone  
Goose Creek, SC 29445 843-797-1893 Fax

January 19, 2022

Ms. Caitlin Reilly  
SCDHEC – BUSTM  
2600 Bull Street  
Columbia, S.C. 29201

Re: Quick Pantry # 19  
Permit # 04785 CA # 64618

Ms. Reilly,

This letter, along with its attachments, is presented to document the results of the 96-hour Aggressive Fluid Vapor Recovery (AFVR) event performed on January 10<sup>th</sup> through January 14<sup>th</sup>, 2022 at the Quick Pantry # 19 site. The 96-hour AFVR event was conducted on Recovery well RW-2 and monitoring wells MW-1 and MW-2. Due to a low water table, RW-1 was considered dry during the initial gauging event. The wells were gauged before and after each event. Results from the 96-hour AFVR event are provided on the attached tables. A total of 214.00 gallons of petroleum were recovered as vapor and 50.55 gallons of free product was recovered, with 1707.77 gallons of contaminated water recovered during this event. Thus far, a total of 1061.11 gallons of free product, 1162.82 gallons of product as vapor, and a total of 16,489.54 gallons of contaminated ground water have been recovered during only six events at the site. Off gas treatment was conducted utilizing a thermal oxidizer designed to destroy 99+% of all contaminants put through the system. A photograph of the unit is included along with brief specifications. Due to the very high recovery rates documented in the AFVR events conducted at the site, and the very widespread contamination already known from the Tier II Assessment, KLM recommends continued AFVR events at the site to continue to recover both free phase and off gas vapor in order to protect the creek and surrounding areas from further impact.

All of the remaining information requested in the AFVR letter is provided in the attachments. Please call me directly if you have any questions at 843-870-4285.

Sincerely,

**KLM Environmental, LLC**

Mark L. Keller, PG  
President

Enclosures: AFVR Information Table; Vacuum Gauge Tables; Emission Calculation; Waste Manifest; Photograph; USGS Map; Site Map; Thermal Oxidizer Photograph; Thermal Oxidizer Specifications; Tank Stick; Gauging Procedure; Tank Charts



Table 1  
AFVR Event Data

1/10/2022 - 1/14/2022  
Quick Pantry #19 (USDHEC UST #04785)

Date	Time	Stinger Depth (ft)			Recovery Rate					Air Emissions Concentrations (ppm)		
		MW-1	MW-2	RW-2	Vacuum (In. Hg)	Air Flow (cfm)	Temp (F)	Stack Vel. (mph)	Humidity	PID Pre-Treatment	PID Post-Treatment	% Mass Reduction
8/2/2021	15:00	18.38	18.02	19.87	-22	117.5	58.2	15.3	64.5	6348	100.3	98.42
8/2/2021	15:30	18.88	20	20	-22	122.2	65.9	15.9	69.1	7462	112.8	98.49
8/2/2021	16:00	19.38	20	20	-22	116.8	85.5	15.2	63.9	9834	121.6	98.76
8/2/2021	16:30	19.88	20	20	-22	112.2	91.6	14.6	66.4	9478	122.1	98.71
8/2/2021	17:00	20.38	20	20	-22	119.1	90.1	15.5	72.7	9919	129.5	98.69
8/2/2021	17:30	20.88	20	20	-22	125.2	95.3	16.3	68.3	9843	131.7	98.66
8/2/2021	18:00	21.38	20	20	-22	116.8	96.8	15.2	75.9	10929	146.2	98.66
8/2/2021	18:30	21.88	20	20	-22	121.4	98.4	15.8	72.6	12187	163.8	98.66
8/2/2021	19:00	22.38	20	20	-22	123.7	95.5	16.1	67.5	14892	165.3	98.89
8/2/2021	19:30	22.88	20	20	-22	119.1	96.7	15.5	73.2	13911	160.8	98.84
8/2/2021	20:00	23.38	20	20	-22	113.7	96.2	14.8	79.5	12348	152.9	98.76
8/2/2021	20:30	23.88	20	20	-22	121.4	94.9	15.8	75.1	13505	155.2	98.85
8/2/2021	21:00	24.38	20	20	-22	118.3	92.5	15.4	81.5	15000	150.4	99.00
8/2/2021	21:30	24.88	20	20	-22	114.5	93.7	14.9	78.4	15000	153.7	98.98
8/2/2021	22:00	25.38	20	20	-22	120.6	96.2	15.7	73.9	15000	162.3	98.92
8/2/2021	22:30	25.88	20	20	-22	117.5	94.5	15.3	76.6	15000	159.5	98.94
8/2/2021	23:00	26.38	20	20	-22	112.9	92.8	14.7	71.2	15000	152.9	98.98
8/2/2021	0:00	26.88	20	20	-22	119.1	90.3	15.5	75.8	15000	157.4	98.95
8/2/2021	8:00	27.38	20	20	-22	124.5	93.1	16.2	79.5	15000	158.7	98.94
8/2/2021	9:00	27.88	20	20	-22	119.8	89.5	15.6	82.6	15000	163.3	98.91
8/2/2021	10:00	28.38	20	20	-22	126.0	88.3	16.4	77.2	15000	168.5	98.88
8/2/2021	11:00	28.5	20	20	-22	123.7	85.8	16.1	74.9	15000	161.8	98.92
8/3/2021	12:00	28.5	20	20	-22	120.6	86.5	15.7	76.6	14723	171.2	98.84
8/3/2021	13:00	28.5	20	20	-22	124.5	83.2	16.2	67.1	13874	170.5	98.77
8/3/2021	14:00	28.5	20	20	-22	119.1	80.3	15.5	72.5	14527	161.7	98.89
8/3/2021	15:00	28.5	20	20	-22	113.7	74.9	14.8	65.8	15000	165.3	98.90
8/3/2021	16:00	28.5	20	20	-22	117.5	88.5	15.3	66.3	14439	169.1	98.83
8/3/2021	18:00	28.5	20	20	-22	119.1	94.2	15.5	70.5	14836	162.5	98.90
8/3/2021	20:00	28.5	20	20	-22	124.5	92.7	16.2	65.1	15000	165.7	98.90
8/3/2021	22:00	28.5	20	20	-22	120.6	93.5	15.7	68.6	15000	166.3	98.89
8/3/2021	0:00	28.5	20	20	-22	112.2	90.1	14.6	73.9	15000	159.3	98.94
8/3/2021	8:00	28.5	20	20	-22	113.7	85.3	14.8	71.3	15000	161.5	98.92
8/3/2021	10:00	28.5	20	20	-22	117.5	81.6	15.3	69.6	15000	156.7	98.96
8/4/2021	12:00	28.5	20	20	-22	120.6	67.5	15.7	66.8	15000	149.2	99.01
8/4/2021	14:00	28.5	20	20	-21	112.2	74.8	14.6	61.2	15000	152.5	98.98
8/4/2021	16:00	28.5	20	20	-21	114.5	83.3	14.9	65.5	15000	148.1	99.01
8/4/2021	18:00	28.5	20	20	-21	119.1	87.6	15.5	63.7	15000	146.8	99.02
8/4/2021	20:00	28.5	20	20	-21	116.8	92.2	15.2	60.4	15000	149.5	99.00
8/4/2021	22:00	28.5	20	20	-21	121.4	93.9	15.8	63.6	15000	142.2	99.05
8/4/2021	0:00	28.5	20	20	-21	125.2	85.5	16.3	68.9	15000	139.6	99.07
8/4/2021	8:00	28.5	20	20	-22	119.1	80.7	15.5	66.2	15000	140.7	99.06
8/4/2021	10:00	28.5	20	20	-22	119.8	74.3	15.6	71.3	15000	138.3	99.08
8/5/2021	12:00	28.5	20	20	-22	108.3	64.9	14.1	73.2	15000	145.5	99.03
8/5/2021	14:00	28.5	20	20	-22	114.5	61.7	14.9	70.7	15000	143.8	99.04
8/5/2021	16:00	28.5	20	20	-22	119.1	79.3	15.5	68.4	15000	149.1	99.01
8/5/2021	18:00	28.5	20	20	-21	117.5	88.1	15.3	65.9	15000	152.7	98.98
8/5/2021	20:00	28.5	20	20	-21	122.2	91.8	15.9	69.3	15000	154.5	98.97
8/5/2021	22:00	28.5	20	20	-21	119.8	89.5	15.6	72.5	15000	147.9	99.01
8/5/2021	0:00	28.5	20	20	-21	112.2	92.6	14.6	76.2	15000	149.3	99.00
8/5/2021	8:00	28.5	20	20	-21	121.4	87.9	15.8	73.1	15000	151.5	98.99
8/5/2021	10:00	28.5	20	20	-22	116.8	84.2	15.2	70.1	15000	142.3	99.05
8/6/2021	12:00	28.5	20	20	-22	117.5	79.9	15.3	71.2	15000	140.9	99.06
8/6/2021	14:00	28.5	20	20	-22	121.4	73.6	15.8	68.4	15000	129.6	99.14
8/6/2021	15:00	28.5	20	20	-22	117.5	77.8	15.3	69.1	15000	131.2	99.13
						0.0						#DIV/0!
						0.0						#DIV/0!
						0.0						#DIV/0!

Well	Depth to Product Before Event	Depth to Water Before Event	Depth to Product After Event	Depth to Water After Event
MW-1	18.38	18.71		28.03
MW-2	18.02	18.52		20.11
RW-2		19.87		19.82

Site Location: Quick Pantry #19

Date: 1/10/2022

Site Conditions: Site was in good condition. Wells were found in good condition.

AFVR Contractor:  
Vacuum Recovery  
Technologies, LLC

Field Personnel:  
KLM Environmental, LLC:

General Weather Conditions:  
Sunny/Clear

Time	Target Well			Adjacent Well (every 2 Hrs)					
	MW-1	RW-2	RW3	MW-4					
	Hg	Hg	Hg	DTW	Hg	DTW	Hg	DTW	Hg
15:00	-12	-12	-14	19.02					
16:00	-12	-12	-14	19.02					
18:00	-12	-12	-13	19.05					
20:00	-12	-13	-13	19.01					
22:00	-12	-12	-14	19.08					
24:00	-12	-12	-14	19.06					

MW-4 IS IN HIGH TRAFFIC AREA.



**KLM Environmental, LLC**  
Phase I Phase II Underground Storage Tanks Soil & Water Sampling Well Installation

Vacuum Gauge Table  
Quick Pantry # 19  
1802 South Main St.  
Greenwood, SC  
UST # 04785  
1/10/2022

Site Location: Quick Pantry #19

Date: 1/11/2022 – 1/12/2022

Site Conditions: Site was in good condition. Wells were found in good condition.

AFVR Contractor:  
Vacuum Recovery  
Technologies, LLC

Field Personnel:  
KLM Environmental, LLC:

General Weather Conditions:  
Sunny/Clear

Time	Target Well			Adjacent Well (every 2 Hrs)							
	MW-1	RW-2	RW3	MW-4		DTW	Hg	DTW	Hg	DTW	Hg
	Hg	Hg	Hg	DTW	Hg						
1/11/2022											
8:00	-13	-13	-13	19.13							
10:00	-14	-12	-14	19.09							
12:00	-14	-13	-13	19.05							
14:00	-14	-13	-13	19.09							
16:00	-14	-13	-13	19.06							
18:00	-13	-13	-13	19.08							
20:00	-13	-12	-14	19.12							
22:00	-13	-13	-13	19.16							
24:00	-13	-12	-14	19.15							
1/12/2022											
8:00	-12	-14	-13	19.19							
10:00	-12	-14	-14	19.21							
12:00	-13	-13	-14	19.17							
14:00	-13	-14	-14	19.23							
16:00	-13	-13	-12	19.23							
18:00	-12	-13	-14	19.26							
20:00	-12	-14	-14	19.21							
22:00	-12	-14	-12	19.20							
24:00	-13	-13	-12	19.24							

MW-4 IS IN HIGH TRAFFIC AREA.



**KLM Environmental, LLC**

Phase I Phase II Underground Storage Tanks Soil & Water Sampling Well Installation

Vacuum Gauge Table  
Quick Pantry # 19  
1802 South Main St.  
Greenwood, SC  
UST # 04785  
1/11/2022 – 1/12/2022



Site Location: Quick Pantry #19

Date: 1/13/2022 – 1/14/2022

Site Conditions: Site was in good condition. Wells were found in good condition.

AFVR Contractor:  
Vacuum Recovery  
Technologies, LLC

Field Personnel:  
KLM Environmental, LLC:

General Weather Conditions:  
Sunny/Clear

Time	Target Well			Adjacent Well (every 2 Hrs)							
	MW-1	RW-2	RW3	MW-4		DTW	Hg	DTW	Hg	DTW	Hg
	Hg	Hg	Hg	DTW	Hg						
1/13/2022											
8:00	-15	-14	-15	19.27							
10:00	-15	-14	-15	19.24							
12:00	-15	-14	-14	19.20							
14:00	-14	-13	-14	19.23							
16:00	-14	-13	-15	19.26							
18:00	-13	-13	-13	19.25							
20:00	-13	-14	-15	19.31							
22:00	-14	-13	-15	19.28							
24:00	-14	-14	-14	19.29							
1/14/2022											
8:00	-13	-13	-15	19.33							
10:00	-14	-14	-14	19.27							
12:00	-14	-14	-13	19.28							
14:00	-13	-14	-14	19.34							
15:00	-15	-14	-14	19.32							

MW-4 IS IN HIGH TRAFFIC AREA.



**KLM Environmental, LLC**

Phase I Phase II Underground Storage Tanks Soil & Water Sampling Well Installation

Vacuum Gauge Table  
Quick Pantry # 19  
1802 South Main St.  
Greenwood, SC  
UST # 04785  
1/13/2022 – 1/14/2022

**Equations to determine Pollutant Mass Removal rate as gasoline (PMRg):**

1/10/22 - 1/14/22

$$PPM_w = PPM_{\text{measured}} = 14038.06$$

$$PPM_d = PPM_w / (1 - Bws) = 14982.72$$

$$PPM_c = (PPM_d)(K) = 59930.89$$

$$C_{c:m} = PPM_c(M_c/K_3) = 29903.2$$

$$C_c = C_{c:m}(62.43 \times 10^{-9}) = 0.001867$$

$$PMR_c = C_c(Q_{std})(60) = 12.03891$$

$$PMR_g = (PMR_c)(M_g/M_{cg}) = 13.93267 \text{ lbs of emissions per hour}$$

**214.0059 Gallons of emissions per 96 hours**

# US Water Recovery

Non-Hazardous Manifest: Waste Water or Drums		Number:		
1. Generator's EPA ID# (if applicable):		Waste ID Number:		
2. Generator's Name and Mailing Address: <i>Buckner Mota</i>		Phone ( )		
		P O #:		
3. Agent of Generator and Mailing Address: <i>KLM Environmental</i>		Phone ( )		
		P O #:		
4. Transporter Company Name: <i>KLM Environmental</i>		Phone ( )		
Truck & Trailer License Number:				
5. Transporter U.S. EPA ID#:				
6. Facility Name and Site Address: US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445		Mailing Address: US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445		
		Phone: (843) 797-3111		
		Fax: (843) 797-1884		
7. Facility U.S. EPA ID#:				
Start Level:	End Level:	Total Gallons:	Tank Number	
8. U.S. DOT Description	Container		Unit	Quantity
	No.	Type		
a. Non-Hazardous, non-regulated waste water				
<i>Quick Pail #19 034785</i>				<i>716.13</i>
9. Generator's Certification: I hereby declare that the contents of this consignment are not hazardous by definition or listing and are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and the laws of the State of South Carolina. I further certify that the contents of this consignment are as represented by the description contained on the Waste Profile Form previously submitted to and approved by the Designated Facility.				
Printed/Typed Name: <i>Mark Kell...</i>		Signature: <i>[Signature]</i>		Date: <i>1/11/22</i>
10. Transporter Acknowledgement of Receipt of Materials				
Printed/Typed Name: <i>Mark Kell...</i>		Signature: <i>[Signature]</i>		Date: <i>1/14/22</i>
11. Discrepancy Indication space:				
12. Facility Owner or Operator: Certification of Receipt of Materials				
Printed/Typed Name: <i>Don Ward</i>		Signature: <i>[Signature]</i>		Date: <i>1-14-22</i>

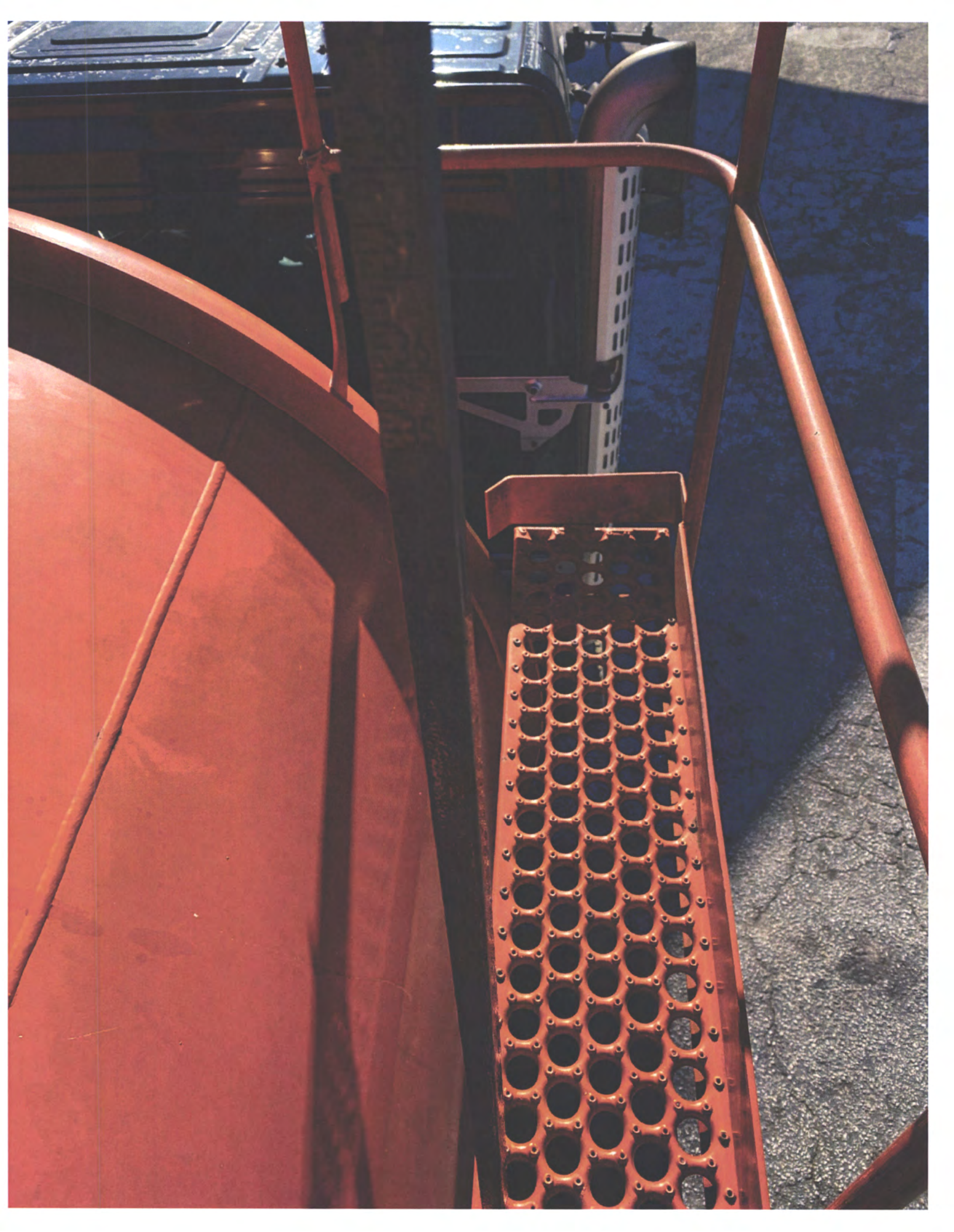
White - Facility      Yellow - Office      Pink - Transporter      Blue - Generator

26607







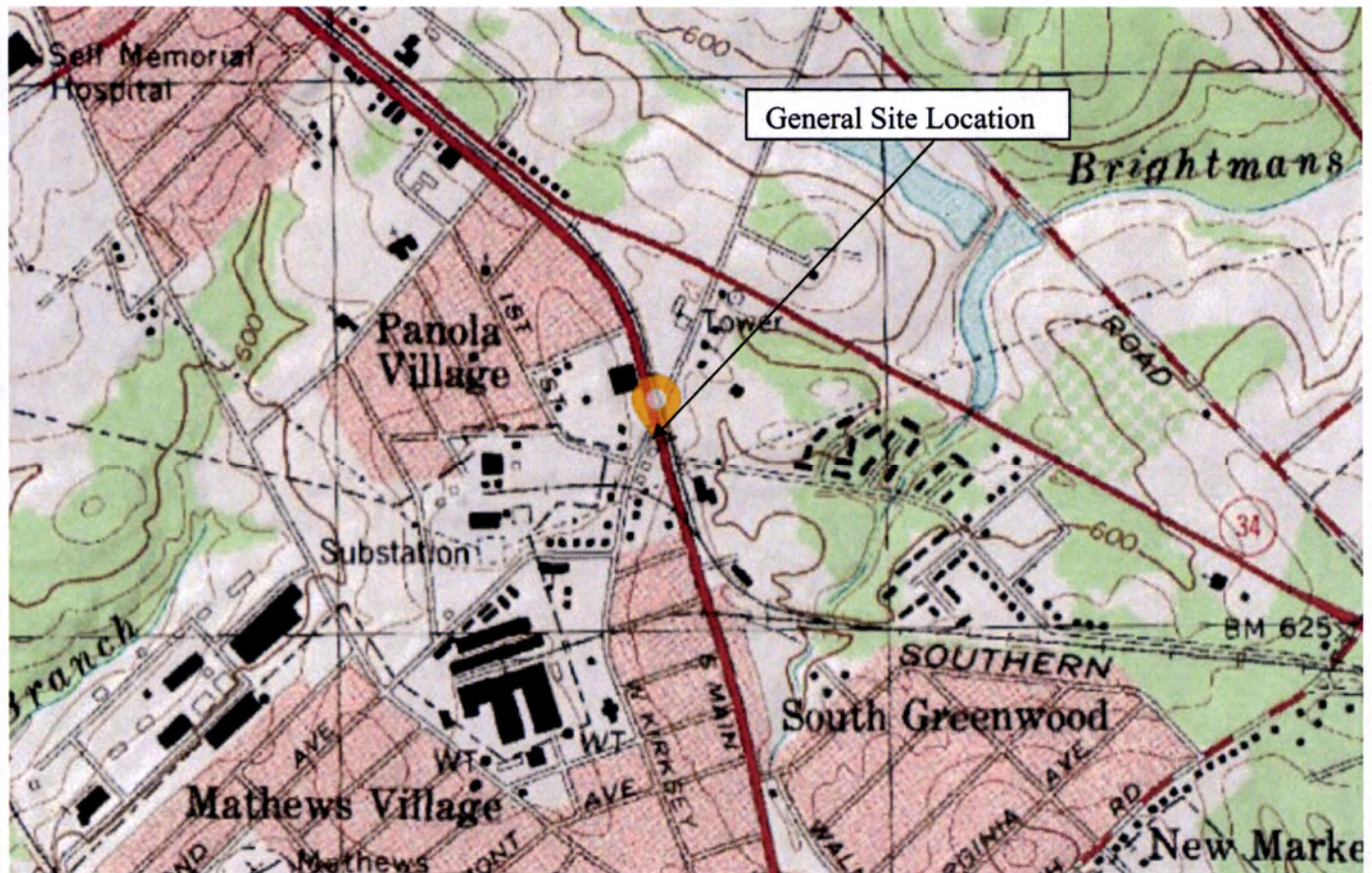




1030 Maxwell Avenue  
Greenwood County  
South Carolina  
Jan 17, 2022 12:17:20 PM







**KLM Environmental, LLC**

Phase I Phase II Underground Storage Tanks Soil & Water Sampling Well Installation

**Figure 1**  
USGS Map  
Quick Pantry # 19  
Greenwood, SC  
UST # 04785





FIGURE 2a

SITE MAP ONE

QUICK PANTRY # 19

GREENWOOD, SC UST # 04785



**KLM Environmental, LLC**  
 Phase I: Underground Storage Tanks Soil & Water Sampling Well Installation





**KLM Environmental, LLC**

Phase I-Phase II- Underground Storage Tanks- Soil & Water Sampling- Well Installation

**Figure 3**  
Thermal Oxidizer  
Quick Pantry # 19  
Greenwood, SC  
Project # 21547



## QUOTATION #7504 Rev-2

October 3, 2013

**Mark Keller**  
**KLM Environmental (843) 870-4285**

**Re: 500 CFM Thermal Oxidizer No VES**



### 500-CFM Thermal Oxidizer General Specifications

**Baker Furnace, Inc.** is pleased to present this proposal to **KLM Environmental** for a Gas Fired 500-CFM Thermal Oxidizer System. This Oxidizer would be constructed as a “turnkey” system ready for operation and would have all the necessary instrumentation and controls to meet applicable Air Quality Standards. We are sure you will find our quality, value and services exceptional!

One (1) Gas Fired Thermal Oxidizer sized for 500 SCFM. Trailer Mounted System includes an FM Approved Flame Arrester, Air Pressure Switch, Pitot Tube with Pressure Transmitter, Carbon Steel Shell Insulated with High Temperature Insulation, U.L Classified Nema 4 Control Panel, Eclipse Package Burner with integrated combustion blower, Fully Modulating FM Fuel Train, and misc. Wiring and Piping.

### 500 SCFM Thermal/Catalytic Oxidizer Technical Specifications

Parameter	Thermal Mode
Destruction Efficiency	99%+
Operating Temperature	1450 Degrees F
Supplemental Fuel	Propane or Natural Gas
Maximum Concentration to Oxidizer	50% of LEL
Combustion Burner	Eclipse Ratio Air 1.5mm btu
Vacuum available	VES By Others
Stack Height (Discharge height)	Min. 13.5 feet from ground
Exit Velocity (No Rain Cap)	600 feet/min
Chart Recorder Measurements (3)	Temp In-Out & Flow
Overall Dimensional Footprint	7' x 11'L
Approximate Shipping Weight	5,500 lbs.
Inlet Pipe size for VES.	4" N.P.T.
Inlet pipe size for Supplemental Fuel	1" N.P.T.
Inlet Gas pressure required	5 PSI (Medium Pressure)
Fuel Supply Requirement (at meter)	1000 ft <sup>3</sup> /hr.
Electrical Service	120/240 VAC 1Ø
Dilution Air Blower	500 CFM Max
Residence Time for Vapors Oxidized	1-second residence time.



# KLM Environmental, LLC

Phase I Phase II Underground Storage Tanks Soil & Water Sampling Well Installation  
PO Box 2704 843-870-4285 Phone  
Goose Creek, SC 29445 843-797-1893 Fax

January 29, 2016

Mr. John Bryant  
SCDHEC – BUSTM  
2600 Bull Street  
Columbia, S.C. 29201

Re: Volume determination for vacuum truck

Mr. Bryant,

KLM uses a tank gauging stick along with a tank specific volume chart to determine the volume of liquid in the tanks on our vacuum trucks prior to each disposal. KLM has three different vacuum trucks, a 3,000 gallon Peter Built, a 3,700 gallon Volvo, and a 2,400 gallon Freightliner. Each truck has a specific chart to correlate inches of water in the tank to gallons of water in the tank. A copy of these charts are included.

The procedure is as follows. The truck operator parks the truck on level ground, gets out of the truck and climbs up the ladder on the side of the truck. He then walks down the catwalk fixed on the tank to the access port. The operator then opens the access port on the top of the tank and lowers a wooden tank gauging stick into the tank until it reaches the bottom. A picture of a typical tank gauging stick is included. The operator then pulls the stick out of the tank and looks for the water line to determine how many inches of water are in the tank. The operator then uses the chart to determine how many gallons of water are in the tank. Once the volume is determined using the chart associated with the particular truck he is driving, a manifest is filled out and the load is disposed of at the disposal facility.

If you have any questions or need anything else, please let me know.

Sincerely,

**KLM Environmental, LLC**

Micah Bennett, PG  
Vice President

Enclosures: Tank gauging stick photo, Truck specific tank volume charts

# 1 PIECE SOLID HARDWOOD GAUGE POLES



Typical gauging stick used in conjunction with tank chart to determine the volume of fluid in tank.



**KLM Environmental, LLC**

Phase I Phase II Underground Storage Tanks · Soil & Water Sampling · Well Installation



Freightliner Tank Chart

0.5	2.07	18	454.52
1	5.90	18.5	472.95
1.5	10.89	19	491.57
2	16.84	19.5	510.36
2.5	23.60	20	529.33
3	31.	20.5	548.46
3.49	39.27	21	567.75
4	48.06	21.5	587.19
4.5	57.42	22	606.78
5	67.32	22.5	626.51
5.5	77.74	23	646.38
6	88.64	23.5	666.38
6.5	100.00	24	686.50
6	111.80	24.5	706.74
7.5	124.028	25	727.09
8	136.64	25.5	747.55
8.5	149.65	26	768.11
9	163.03	26.5	788.77
9.5	176.77	27	809.52
10	190.86	27.5	830.35
10.5	205.27	27	851.27
11	220.01	28.5	872.26
11.5	235.0	29	893.32
12	250.406	29.5	914.45
12.5	266.04	30	935.63
13	281.95	30.5	956.87
13.5	298.133	30	978.16
13	314.576	31.5	999.50
14.5	331.274	32	1020.87
15	348.21	32.5	1042.28
15.5	365.38	33	1063.72
16	382.78	33.5	1085.18
16.5	400.40	34	1106.67
17	418.24	34.5	1128.16
17.5	436.28	35	1149.67

Freightliner Tank Chart

35.5	1171.18	53	1887.85
36	1192.70	53.5	1906.09
36.5	1214.21	54	1924.13
37	1235.70	54.5	1941.96
37.5	1257.19	55	1959.59
38	1278.65	55.5	1976.99
38.5	1300.09	55.	1994.16
39	1321.50	56.5	2011.10
39.5	1342.87	57	2027.80
40	1364.2	57.5	2044.24
40.5	1385.50	58	2060.42
41	1406.74	58.5	2076.33
41.5	1427.92	59	2091.97
42	1449.05	59.5	2107.31
42.5	1470.1	60	2122.36
43	1491.10	60.5	2137.09
43.5	1512.02	61	2151.51
44	1532.85	61.5	2165.59
44.5	1553.60	62	2179.33
45	1574.26	62.5	2192.72
45.5	1594.82	63	2205.73
46	1615.28	63.5	2218.35
46.5	1635.63	64	2230.57
47	1655.87	64.5	2242.37
47.5	1675.99	65	2253.73
48	1695.99	65.5	2264.63
48.5	1715.85	66	2275.05
49	1735.59	66.5	2284.95
49.5	1755.18	67	2294.31
50	1774.62	67.5	2303.10
50.50	1793.91	68	2311.27
51	1813.04	68.5	2318.77
51.5	1832.01	69	2325.53
52	1850.80	69.5	2331.48
52.5	1869.42	70	2336.47

**VOLVO PRESVAC VOLUME CALCULATIONS**

Inches	Volume (Gallons)
0.5	3.21
1	9.13
1.5	16.82
2	25.96
2.5	36.33
3	47.81
3.5	60.30
4	73.72
4.5	88.00
5	103.08
5.5	118.94
6	135.51
6.5	152.77
7	170.68
7.5	189.22
8	208.36
8.5	228.08
9	248.34
9.5	269.14
10	290.44
10.5	312.24
11	334.52
11.5	357.25
12	380.43
12.5	404.03
13	428.05
13.5	452.47
14	477.28
14.5	502.46
15	528.01

Inches	Volume (Gallons)
15.5	553.90
16	580.14
16.5	606.71
17	633.59
17.5	660.78
18	688.27
18.5	716.05
19	744.10
19.5	772.42
20	801.01
20.5	829.84
21	858.92
21.5	888.23
22	917.77
22.5	947.52
23	977.48
23.5	1007.64
24	1037.99
24.5	1068.53
25	1099.24
25.5	1130.13
26	1161.17
26.5	1192.37
27	1223.72
27.5	1255.20
28	1286.82
28.5	1318.56
29	1350.43
29.5	1382.40
30	1414.47

Inches	Volume (Gallons)
30.5	1446.65
31	1478.91
31.5	1511.26
32	1543.68
32.5	1576.18
33	1608.74
33.5	1641.35
34	1674.01
34.5	1706.72
35	1739.46
35.5	1772.23
36	1805.03
36.5	1837.84
37	1870.66
37.5	1903.49
38	1936.31
38.5	1969.12
39	2001.92
39.5	2034.69
40	2067.43
40.5	2100.14
41	2132.80
41.5	2165.42
42	2197.97
42.5	2230.47
43	2262.89
43.5	2295.24
44	2327.50
44.5	2359.68
45	2391.75



Inches	Volume (Gallons)
45.5	2423.73
46	2455.59
46.5	2487.33
47	2518.95
47.5	2550.43
48	2581.78
48.5	2612.98
49	2644.03
49.5	2674.91
50	2705.62
50.5	2736.16
51	2766.51
51.5	2796.67
52	2826.63
52.5	2856.39
53	2885.92
53.5	2915.23
54	2944.31
54.5	2973.14
55	3001.73
55.5	3030.055
56	3058.11
56.5	3085.88
57	3113.37
57.5	3140.56
58	3167.45
58.5	3194.015
59	3220.25
59.5	3246.14
60	3271.69

Inches	Volume (Gallons)
60.5	3296.87
61	3321.68
61.5	3346.10
62	3370.12
62.5	3393.72
63	3416.90
63.5	3439.63
64	3461.91
64.5	3483.71
65	3505.02
65.5	3525.81
66	3546.08
66.5	3565.79
67	3584.93
67.5	3603.47
68	3621.38
68.5	3638.64
69	3655.22
69.5	3671.07
70	3686.16
70.5	3700.43
71	3713.85
71.5	3726.34
72	3737.82
72.5	3748.20
73	3757.33
73.5	3765.02
74	3770.94
74.5	3774.16

# Keith Huber Corp.

## Stick Chart

### Tank Volume Versus Liquid Depth

Serial Number

ESD30208146003D		Tank Diameter		76	
		Tank Length (Includes Straight Flanges)		137	
		Shell Thickness		0.3125	
		Total Tank Volume		2723.827253	
		Volume In Each Head		158.3308891	
		Total Gallons		3040.489032	
Inch	Gallons	Inch	Gallons	Inch	Gallons
1	7.217505372	27	966.48635	53	2299.3959
2	20.48481111	28	1016.8163	54	2346.3769
3	37.65302097	29	1067.5812	55	2392.5938
4	57.96052167	30	1118.7348	56	2437.9922
5	81	31	1170.2311	57	2482.516
6	106.3463786	32	1222.0245	58	2526.1068
7	133.8868258	33	1274.0701	59	2569
8	163.3985074	34	1326.3229	60	2610.2443
9	194.7294075	35	1378.7386	61	2650.6607
10	227.7497412	36	1431.2727	62	2689.8825
11	262.3460638	37	1483.8812	63	2727.8342
12	298.4173305	38	1536.52	64	2764.4346
13	335.8721483	39	1589.1451	65	2799.5953
14	374.6267953	40	1641.7123	66	2833.2192
15	414.6037517	41	1694.1776	67	2865.1979
16	455.7305851	42	1746.4967	68	2895.4082
17	497.9390875	43	1798.6252	69	2923.7074
18	541.1645952	44	1850.5184	70	2949.9252
19	585.3454443	45	1902.1314	71	2973.851
20	630.42253	46	1953.4189	72	2995.211
21	676.3389435	47	2004.335	73	3013.6224
22	723.0396711	48	2054.8335	74	3028.4784
23	770.4713419	49	2105	75	3039
24	818.5820132	50	2154.3897	76	#NUM!
25	867.3209875	51	2203.3515	77	#NUM!
26	916.6386547	52	2251.7036		

Nozzle openings, baffles and other tank components may cause a slight variance in tank capacity. Therefore, Keith Huber Corp. does not guarantee the accuracy of this chart.

Re: UST 04785 - Quick Pantry 19

Mark Keller <mkeller131@comcast.net>

Wed 2/2/2022 2:41 PM

To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>

\*\*\* Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. \*\*\*

Yes no problem

Mark L. Keller: PG  
President  
KLM Environmental, LLC  
PO Box 2704  
Goose Creek, SC 29445  
Phone: 843-870-4285  
Fax: 843-797-1893  
Office: 843-797-7884



On Feb 2, 2022, at 3:01 PM, Reilly, Caitlin M. <reillycm@dhec.sc.gov> wrote:

No problem! I was just reaching out incase you were gonna be in the area, no need to drive all that way for this. I think we'll be good walking him around, can I give him your contact information if he has any questions?

**Caitlin Reilly**  
Hydrogeologist  
Assessment & Non-Permitted Petroleum Section  
Underground Storage Tank Division  
**S.C. Dept. of Health & Environmental Control**  
Office: (803) 898-3807  
Fax: (803) 898-0673  
Connect: [www.scdhec.gov](http://www.scdhec.gov) [Facebook](#) [Twitter](#)



---

**From:** Mark Keller <mkeller131@comcast.net>  
**Sent:** Wednesday, February 2, 2022 1:58 PM  
**To:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>  
**Subject:** Re: UST 04785 - Quick Pantry 19

\*\*\* Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. \*\*\*

Caitlin



We don't have any plans to be in that area on Thursday. We will be in Greenwood on Monday and Friday for an AFVR event we have scheduled. As it's 8 hours round trip for us not including time on site we would need to ask for a mobilization to perform another site meeting. Please let me know

Thanks

Mark

Mark L. Keller, PG  
President  
KLM Environmental, LLC  
PO Box 2704  
Goose Creek, SC. 29445  
Phone: 843-870-4285  
Fax: 843-797-1893  
Office: 843-797-7884

On Feb 2, 2022, at 2:10 PM, Reilly, Caitlin M. <reillycm@dhec.sc.gov> wrote:

Hey Mark,

I hope you are doing well! We have reached out to our SARRs department about the environmental concerns on Mr. Smith's property and we're planning on doing a site visit next Thursday the 10th. I was wondering if you or one of your guys were available that day to meet us to discuss what you found and where. I just met with them today and we're still waiting to hear back from Mr. Smith about property access but as of now we're planning for that day. If you can't make is no big deal, just let me know.

Thanks!  
Caitlin

**Caitlin Reilly**  
Hydrogeologist  
Assessment & Non-Permitted Petroleum Section  
Underground Storage Tank Division  
**S.C. Dept. of Health & Environmental Control**  
Office: (803) 898-3807  
Fax: (803) 898-0673  
Connect: [www.scdhec.gov](http://www.scdhec.gov) [Facebook](#) [Twitter](#)



UST# 04785 - Greenwood Weekly Update

Reilly, Caitlin M. <reillycm@dhec.sc.gov>

Thu 2/3/2022 9:37 AM

To: Mehta, Mihir <mehtam@dhec.sc.gov>

Cc: Thrash, Ashleigh <thrasham@dhec.sc.gov>

UST #04785 - Quick Pantry 19

Address: 1802 South Main Street, Greenwood SC 29646

County: Greenwood

Release #1 Date: March 3, 2021

Release #2 Date: September 28, 2021

RBCA Rankings: 1D

Responsible Party: Bahuchar Mata LLC

Consultant: KLM Environmental LLC

There has been no new work done, at this time we are waiting on the Additional Assessment report from KLM Environmental. There has been no response or reported activity from the contractor since last Thursday to address the compliance issues.

Thanks,  
Caitlin

04785 Quick Pantry 19

Cathcart, Eric F. <cathcaef@dhec.sc.gov>

Thu 2/3/2022 9:30 AM

To: Mehta, Mihir <mehtam@dhec.sc.gov>

Cc: Reilly, Caitlin M. <reillycm@dhec.sc.gov>

There has been no response or reported activity from the contractor since last Thursday to address the compliance issues.

**Eric F. Cathcart**

Manager, Regulatory Compliance Section  
Underground Storage Tank Management Division

**S.C. Dept. of Health & Environmental Control**

Office: (803) 898-0633

Connect: [www.scdhec.gov](http://www.scdhec.gov) [Facebook](#) [Twitter](#)





Re: UST # 04785 Greenwood Maps

Reilly, Caitlin M. <reillycm@dhec.sc.gov>

Mon 2/7/2022 10:04 AM

To: Graham Robinson <grobinson2019@comcast.net>; Miner, Read <minerrs@dhec.sc.gov>

Cc: mkeller131@comcast.net <mkeller131@comcast.net>

Good morning Graham,

This is perfect, thank you!!

Caitlin

**Caitlin Reilly**

Hydrogeologist

Assessment & Non-Permitted Petroleum Section

Underground Storage Tank Division

**S.C. Dept. of Health & Environmental Control**

Office: (803) 898-3807

Fax: (803) 898-0673

Connect: [www.scdhec.gov](http://www.scdhec.gov) [Facebook](#) [Twitter](#)



---

**From:** Graham Robinson <grobinson2019@comcast.net>

**Sent:** Monday, February 7, 2022 9:37 AM

**To:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>; Miner, Read <minerrs@dhec.sc.gov>

**Cc:** mkeller131@comcast.net <mkeller131@comcast.net>

**Subject:** UST # 04785 Greenwood Maps

\*\*\* Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. \*\*\*

Read and Caitlin,

I have attached both probing maps with the aerial basemap removed. I changed the colors on some of the lines and labels as well so your scanner will pick it up. Hopefully this works but let me know if you need anything else!

Thanks,

Graham Robinson

R&LM Environmental, LLC

PO Box 2704

Goose Creek, SC 29445

Phone: 985-783-3065



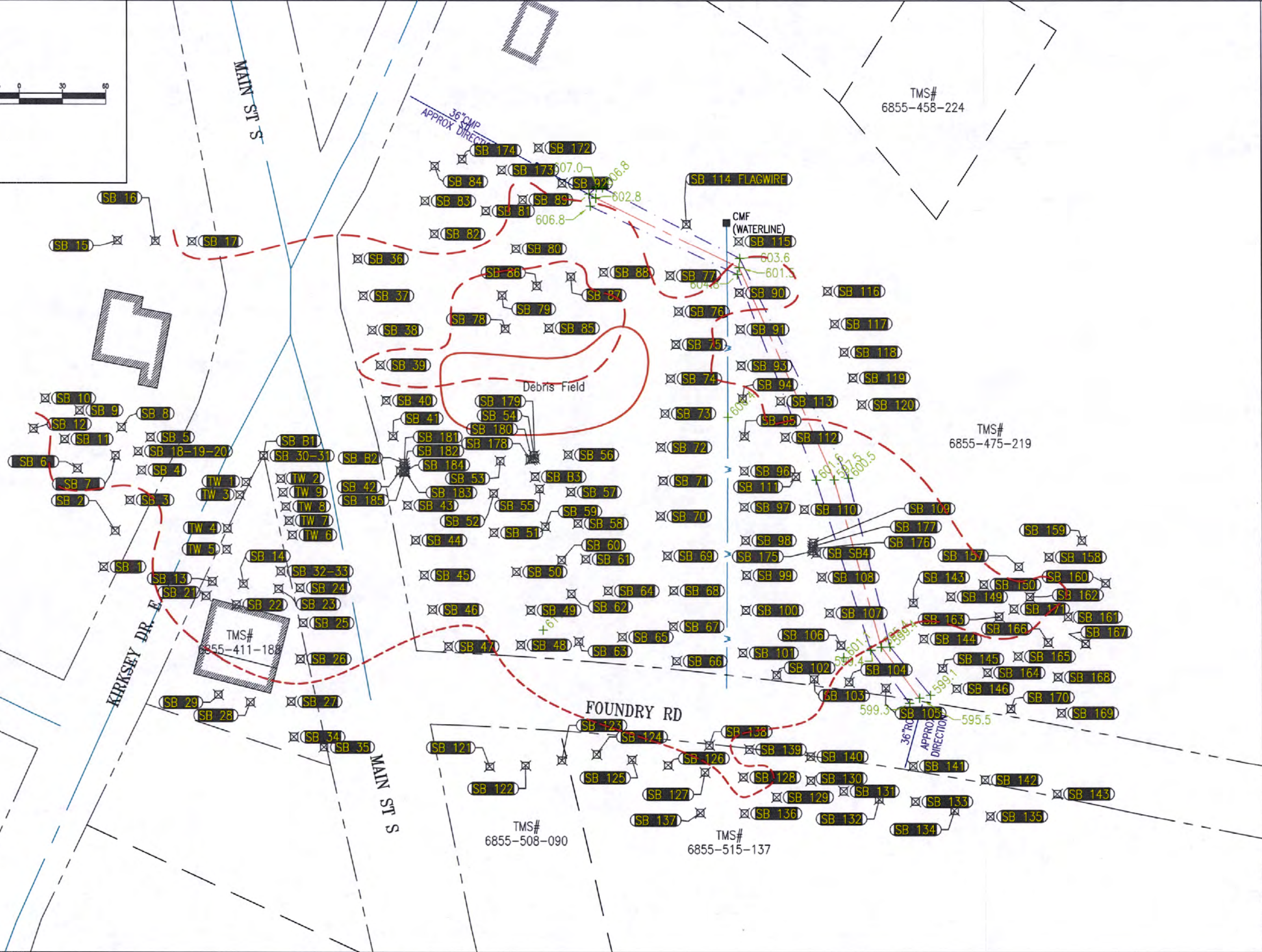
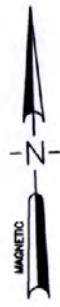
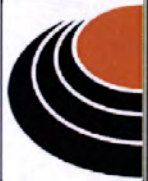
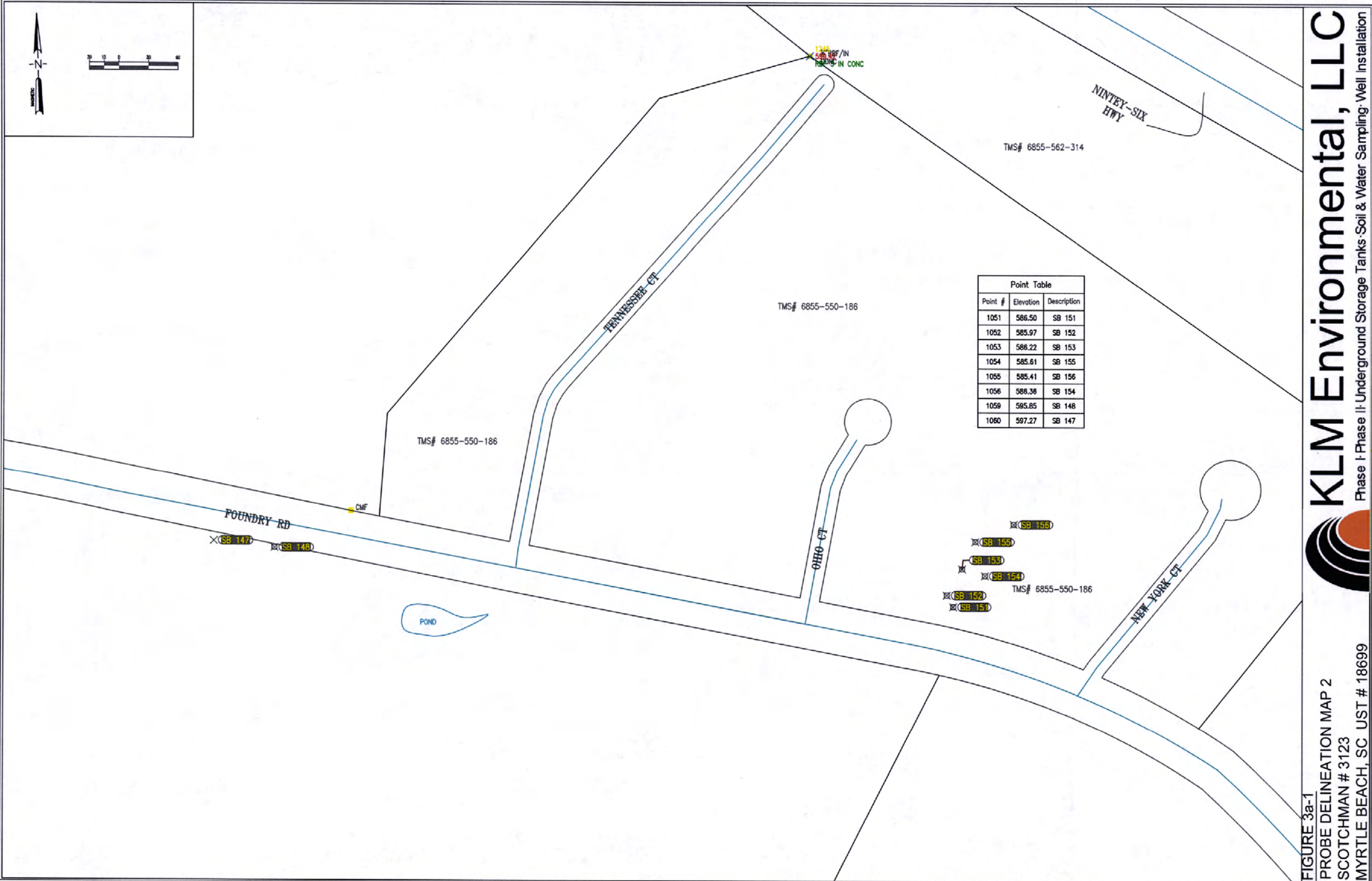


FIGURE 3a  
 PROBE DELINEATION MAP  
 QUICK PANTRY # 19  
 GREENWOOD, SC UST # 04785







## UST# 04785 - Greenwood Weekly Update

Reilly, Caitlin M. <reillycm@dhec.sc.gov>

Thu 2/10/2022 8:50 AM

To: Mehta, Mihir <mehtam@dhec.sc.gov>

Cc: Thrash, Ashleigh <thrasham@dhec.sc.gov>; Briney, Stephanie M. <brineysm@dhec.sc.gov>

UST #04785 - Quick Pantry 19

Address: 1802 South Main Street, Greenwood SC 29646

County: Greenwood

Release #1 Date: March 3, 2021

Release #2 Date: September 28, 2021

RBCA Rankings: 1D

Responsible Party: Bahuchar Mata LLC

Consultant: KLM Environmental LLC

This week KLM Environmental is finishing up the additional assessment report, it is expected to be submitted by the end of the month. As of today, the two existing USTs 4K Super/Premium and 5K Regular, are returned to in compliance. Delivery Prohibition has been cleared for the facility and both of these USTs are operational. There are no out of compliance issues pending in our Program.

Both responsible parties (owner and supplier) have signed their consent orders associated with the Part 1 violations for delivery to tagged tank.

Thanks,  
Caitlin

**Caitlin Reilly**  
Hydrogeologist  
Assessment & Non-Permitted Petroleum Section  
Underground Storage Tank Division  
**S.C. Dept. of Health & Environmental Control**  
Office: (803) 898-3807  
Fax: (803) 898-0673  
Connect: [www.scdhec.gov](http://www.scdhec.gov) [Facebook](#) [Twitter](#)



## Compliance update for #04785

Cathcart, Eric F. <cathcaef@dhec.sc.gov>

Wed 2/9/2022 10:34 AM

To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>

Cc: Mehta, Mihir <mehtam@dhec.sc.gov>

As of today, the two existing USTs 4K Super/Premium and 5K Regular, are returned to in compliance. Delivery Prohibition has been cleared for the facility and both of these USTs are operational. There are no out of compliance issues pending in our Program.

Both responsible parties (owner and supplier) have signed their consent orders associated with the Part 1 violations for delivery to tagged tank.

**Eric F. Cathcart**

Manager, Regulatory Compliance Section  
Underground Storage Tank Management Division  
**S.C. Dept. of Health & Environmental Control**  
Office: (803) 898-0633

Connect: [www.scdhec.gov](http://www.scdhec.gov) [Facebook](#) [Twitter](#)



## Foundry Rd Conference Call material

Ariail, Ryan D. <AriailRD@dhec.sc.gov>

Tue 2/8/2022 10:54 AM

To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>; Miner, Read <minerrs@dhec.sc.gov>; Dunn, Robert <DUNNRA@dhec.sc.gov>

Cc: Thrash, Ashleigh <thrasham@dhec.sc.gov>; Briney, Stephanie M. <brineysm@dhec.sc.gov>

Good morning.

I simplified some of the drawings and information for today's meeting. Hopefully this will help only having to flip between two documents.

Thanks

Ryan

---

Ryan D. Ariail  
UST Customer Service Representative  
Underground Storage Tank Management Division  
**S.C. Dept. of Health & Environmental Control**  
Office: (803) 898-9418  
Cell: (803) 608-0418  
ariailrd@dhec.sc.gov  
Connect: [www.scdhec.gov](http://www.scdhec.gov) [Facebook](#) [Twitter](#)

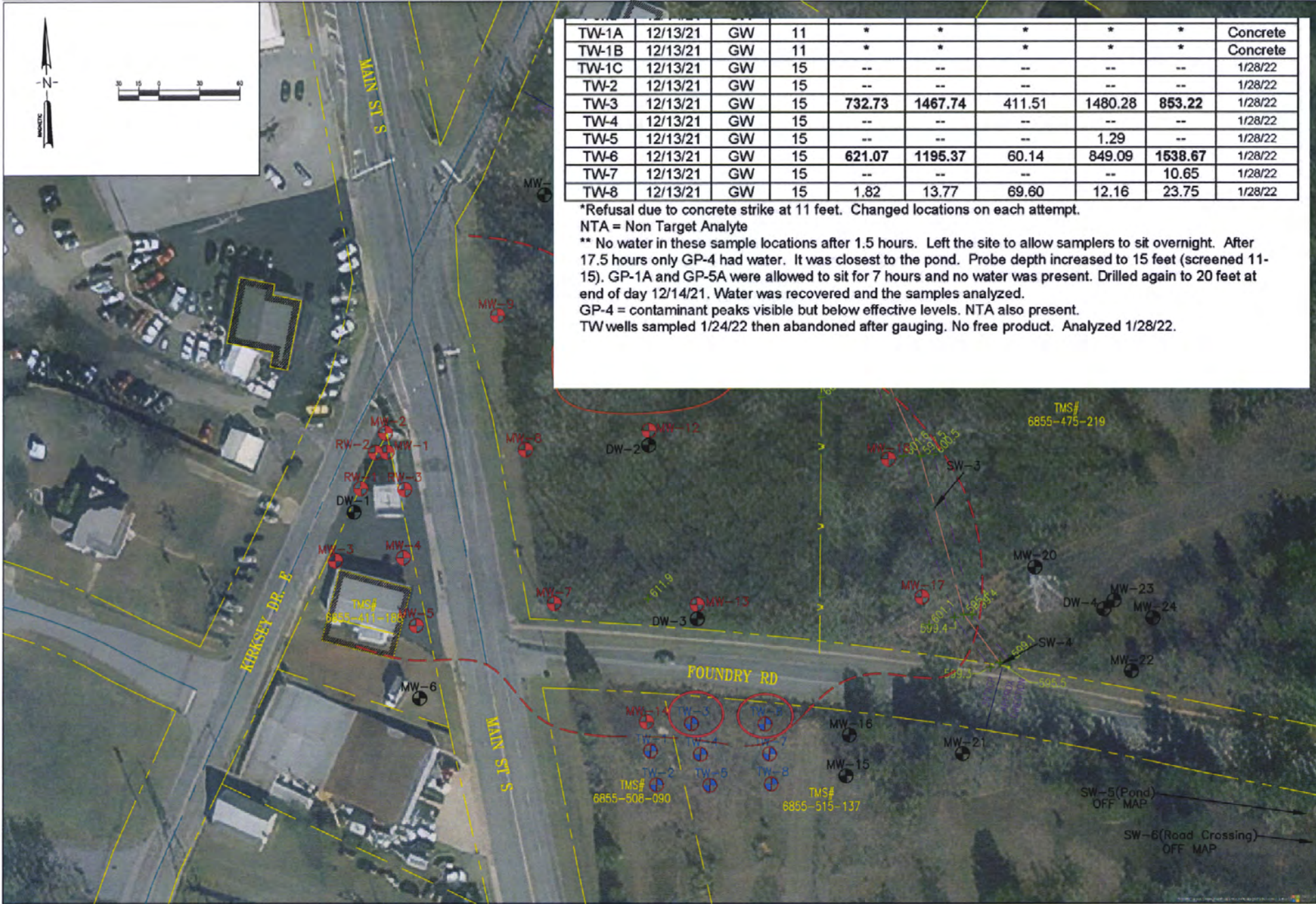


*"It's a great day in South Carolina!"*

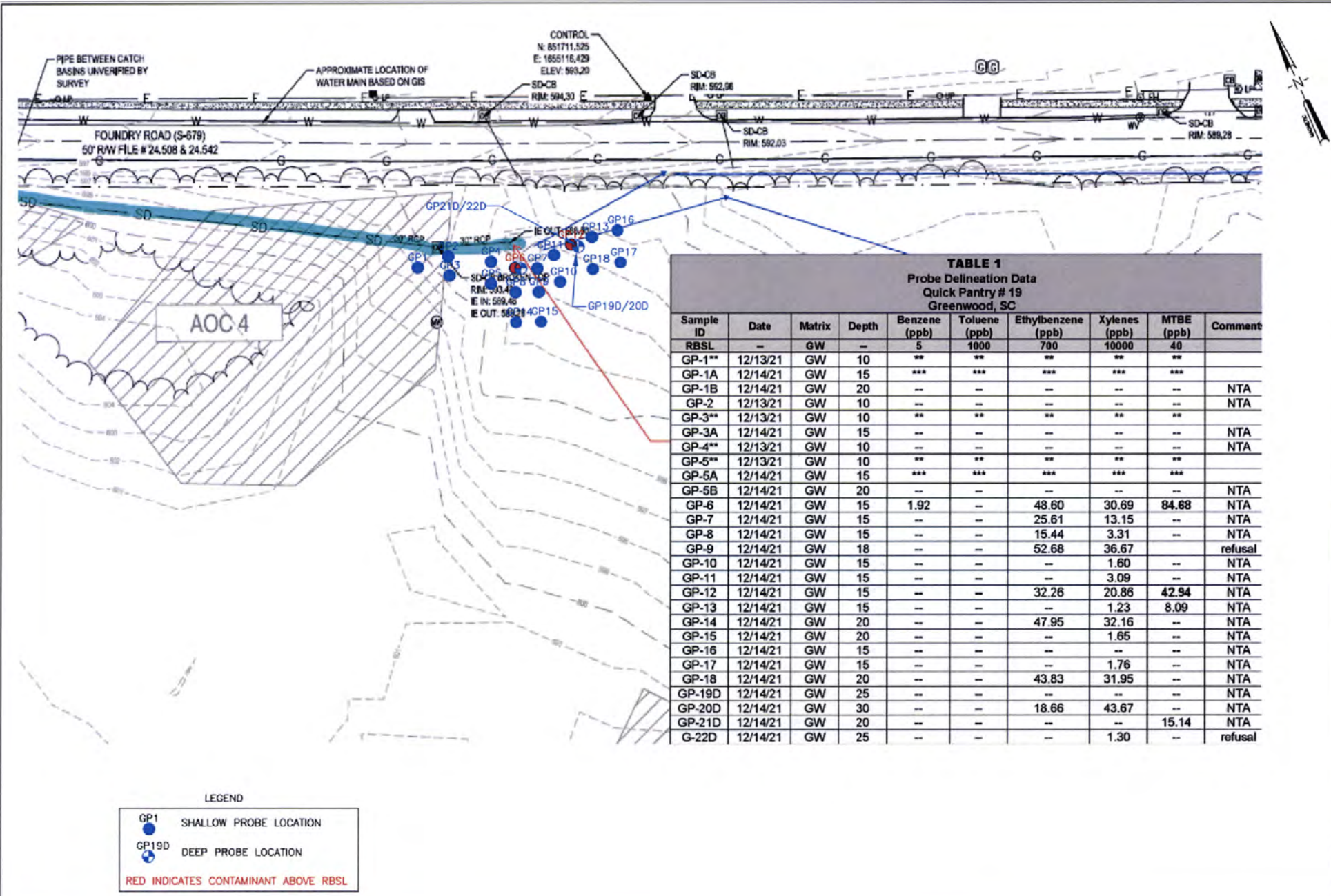


"Effective May 26, 2017, there were changes to the SC UST Regulations, which may affect you. Please go to <https://www.scdhec.gov/environment/land-management/underground-storage-tanks> for more information.









UST 04785

Ariail, Ryan D. <AriailRD@dhec.sc.gov>

Tue 2/8/2022 10:58 AM

To: mkeller131@comcast.net <mkeller131@comcast.net>

Cc: Reilly, Caitlin M. <reillycm@dhec.sc.gov>

Good morning, Mark.

I know you are probably getting bombarded with request for this site, but there is something important that wasn't included in the Tier II report that we need. We need a copy of the PLS comp survey done for the Tier II Assessment that has the Lat Long geo coordinates for each MW. If it was included and I overlooked it, please let me know. I feel like I am going cross-eyed digging through 800 pages multiple times.

Thanks

Ryan

---

Ryan D. Ariail  
UST Customer Service Representative  
Underground Storage Tank Management Division  
**S.C. Dept. of Health & Environmental Control**  
Office: (803) 898-9418  
Cell: (803) 608-0418  
ariailrd@dhec.sc.gov  
Connect: [www.scdhec.gov](http://www.scdhec.gov) [Facebook](#) [Twitter](#)



*"It's a great day in South Carolina!"*



"Effective May 26, 2017, there were changes to the SC UST Regulations, which may affect you. Please go to <https://www.scdhec.gov/environment/land-management/underground-storage-tanks> for more information.



Re: 04785

Reilly, Caitlin M. <reillycm@dhec.sc.gov>

Wed 2/9/2022 2:10 PM

To: mkeller131@comcast.net <mkeller131@comcast.net>

Awe thank you!! I definitely believe working on this project with you helped me get there, I got to learn SO much from this one.

**Caitlin Reilly**

Hydrogeologist

Assessment & Non-Permitted Petroleum Section

Underground Storage Tank Division

**S.C. Dept. of Health & Environmental Control**

Office: (803) 898-3807

Fax: (803) 898-0673

Connect: [www.scdhec.gov](http://www.scdhec.gov) [Facebook](#) [Twitter](#)



---

**From:** Mark Keller <mkeller131@comcast.net>

**Sent:** Wednesday, February 9, 2022 2:08 PM

**To:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>

**Subject:** Re: 04785

\*\*\* Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. \*\*\*

CONGRATULATIONS!!! I knew you were going to be moving up. You got too much experience now after 04785!! Keep doing your thing. Proud of you

Mark L. Keller, PG

President

KLM Environmental, LLC

PO Box 2704

Goose Creek, SC, 29445

Phone: 843-870-4285

Fax: 843-797-1893

Office: 843-797-7884

On Feb 9, 2022 at 2:01 PM, Reilly, Caitlin M. <reillycm@dhec.sc.gov> wrote:

Good, I was hoping that was it!

Also, I wanted to let you know I got a promotion! I'll still be with the Assessment section but there might be a county shuffle. I'm taking over Jacob Bowell's old position so I'm sure I'll be assigned Charleston or Richland. I just wanted to give you a heads up!

Thanks!!

Caitlin

**Caitlin Reilly**

Hydrogeologist II <-- 🤖

Assessment & Non-Permitted Petroleum Section  
Underground Storage Tank Division

**S.C. Dept. of Health & Environmental Control**

Office: (803) 898-3807

Fax: (803) 898-0673

Connect: [www.scdhec.gov](http://www.scdhec.gov) [Facebook](#) [Twitter](#)



---

**From:** Mark Keller <mkeller131@comcast.net>

**Sent:** Wednesday, February 9, 2022 1:39 PM

**To:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>

**Subject:** Re: 04785

\*\*\* Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. \*\*\*

That's it. Thank you!!

Mark L Keller, PG

President

KLM Environmental, LLC

PO Box 2704

Goose Creek, SC, 29445

Phone: 843-370-4285

Fax: 843-797-1893

Office: 843-797-7884

On Feb 9, 2022, at 1:01 PM, Reilly, Caitlin M <reillycm@dhec.sc.gov> wrote

Hey Mark,

I believe this is the letter you are asking for. I haven't seen this type of letter yet so if this isn't it please let me know and I will get with Denise to track it down.

Thank you!

Caitlin

**Caitlin Reilly**  
Hydrogeologist  
Assessment & Non-Permitted Petroleum Section  
Underground Storage Tank Division  
**S.C. Dept. of Health & Environmental Control**  
Office: (803) 898-3807  
Fax: (803) 898-0673  
Connect: [www.scdhec.gov](http://www.scdhec.gov) [Facebook](#) [Twitter](#)



---

**From:** Mark Lee Keller <mkeller131@comcast.net>  
**Sent:** Wednesday, February 9, 2022 10:50 AM  
**To:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>  
**Subject:** 04785

\*\*\* Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. \*\*\*

Caitlin,

I applied for a sampling variance for the tank closure we did and it was approved. I somehow can not find the letter they sent me to include in the tank closure report. Could you send me a copy of that?

Thanks!!

Mark

Mark L. Keller, PG  
President



**KLM Environmental, LLC**  
PO Box 2704  
Goose Creek, SC 29445  
843-870-4285 Cell



Re: UST# 04785 - Quick Pantry 19 Update

Mark Keller <mkeller131@comcast.net>

Wed 2/9/2022 3:04 PM

To: Miner, Read <minerrs@dhec.sc.gov>

Cc: Thrash, Ashleigh <thrasham@dhec.sc.gov>; Reilly, Caitlin M. <reillycm@dhec.sc.gov>; Briney, Stephanie M. <brineysm@dhec.sc.gov>; Dunn, Robert <DUNNRA@dhec.sc.gov>

\*\*\* Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. \*\*\*

Read

Will do. I will say AFVR events have reduced free product levels already in MW-14 which has stopped free gas from dripping out of the pipe at the road. Excellent results. Those should continue on site and off now that we are making progress. We have on site wells, the we have 3 rows of wells heading down to the creek. We have only performed 4 or 5 events from memory but have recovered over 1000 gallons thus far with little water recovered so a nice efficiency.

Mark

Mark L. Keller, PG  
President  
KLM Environmental, LLC  
PO Box 2704  
Goose Creek, SC, 29445  
Phone: 843-870-4285  
Fax: 843-797-1893  
Office: 843-797-7884

On Feb 9, 2022, at 2:57 PM, Miner, Read <minerrs@dhec.sc.gov> wrote:

Mark,

Can you also compile your thoughts, plans, recommendations, etc. concerning both short term abatement as well as corrective action strategies. I believe that Stephanie, Robert, and I are planning to have a virtual meeting with you in the near future. A time hasn't been determined but this will give you some extra time to prepare.

Thank You

**Read S. Miner, P.G.**  
Hydrogeologist III  
Underground Storage Tank Division  
**S.C. Dept. of Health & Environmental Control**  
Office: (803) 898-0608  
Fax: (803) 898-0673  
Connect: [www.scdhec.gov](http://www.scdhec.gov) [Facebook](#) [Twitter](#)



---

**From:** Thrash, Ashleigh <thrasham@dhec.sc.gov>  
**Sent:** Wednesday, February 9, 2022 2:41 PM  
**To:** mkeller131@comcast.net <mkeller131@comcast.net>; Reilly, Caitlin M. <reillycm@dhec.sc.gov>  
**Cc:** Miner, Read <minerrs@dhec.sc.gov>; Briney, Stephanie M. <brineysm@dhec.sc.gov>; Dunn, Robert <DUNNRA@dhec.sc.gov>  
**Subject:** Re: UST# 04785 - Quick Pantry 19 Update

Thank you so much Mark!

Ashleigh

---

**Ashleigh Thrash, P.G.**  
Section Manager, Assessment & Non-Permitted Petroleum  
**S.C. Dept. of Health & Environmental Control**  
Office: (803) 898-0607  
Cell: (803) 608-1765  
Connect: [www.scdhec.gov](http://www.scdhec.gov) [Facebook](#) [Twitter](#)



---

**From:** Mark Keller <mkeller131@comcast.net>  
**Sent:** Wednesday, February 9, 2022 2:38 PM  
**To:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>  
**Cc:** Thrash, Ashleigh <thrasham@dhec.sc.gov>; Miner, Read <minerrs@dhec.sc.gov>; Briney, Stephanie M. <brineysm@dhec.sc.gov>; Dunn, Robert <DUNNRA@dhec.sc.gov>  
**Subject:** Re: UST# 04785 - Quick Pantry 19 Update

\*\*\* Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. \*\*\*

Got it. Report will be coming in a few days. We were already on it.

Mark

Mark L. Keller, PG  
President  
KLM Environmental, LLC  
PO Box 2704  
Goose Creek, SC 29445

Phone: 843-870-4285

Fax: 843-797-1893

Office: 843-797-7884

On Feb 9, 2022, at 2:34 PM, Reilly, Caitlin M. <reillycm@dhec.sc.gov> wrote:

Hey Mark,

We had our internal bi-weekly meeting this morning and it was determined that it may be a few weeks until the permanent well placement is decided. Read is currently working on modeling this and Davis & Floyd are working on overlaying your maps with theirs so until those are done we can't move forward with the installation. So at this time we are requesting that you send us the assessment report with the data you have and once the well locations are determined, Read can send an addendum or a new SSWP for them.

Also once the additional assessment report is received and reviewed I will be reassigning this to Read, I'll send you an official email when that takes place but I just wanted to give you a heads up!

Thanks!!

Caitlin

**Caitlin Reilly**  
Hydrogeologist  
Assessment & Non-Permitted Petroleum Section  
Underground Storage Tank Division  
**S.C. Dept. of Health & Environmental Control**  
Office: (803) 898-3807  
Fax: (803) 898-0673  
Connect: [www.scdhec.gov](http://www.scdhec.gov) [Facebook](#) [Twitter](#)



---

**From:** Mark Keller <mkeller131@comcast.net>

**Sent:** Monday, February 7, 2022 2:37 PM

**To:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>

**Cc:** Thrash, Ashleigh <thrasham@dhec.sc.gov>; Miner, Read <minerrs@dhec.sc.gov>;

Briney, Stephanie M. <brineysm@dhec.sc.gov>

**Subject:** Re: UST# 04785 - Quick Pantry 19 Update

\*\*\* Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. \*\*\*

We are requesting an extension for the assessment project currently ongoing at this site. Well installation has yet to be determined at this time and is contingent on talks with the City of Greenwood.



Thank you

Mark

Mark L. Keller, PG  
President  
KLM Environmental, LLC  
PO Box 2704  
Goose Creek, SC, 29445  
Phone: 843-870-4285  
Fax: 843-797-1893  
Office: 843-797-7884

On Feb 7, 2022, at 2:00 PM, Reilly, Caitlin M.  
<reillycm@dhec.sc.gov> wrote:

Hey Mark,

I hope you had a wonderful weekend!

We have to meet with the City of Greenwood tomorrow to give them our monthly update and I was wondering if you could give me an estimate of when the additional assessment report will be in. I know they are going to want to discuss the data that was collected during this event so they can move forward with their project and figuring out where the permanent wells can be installed. I know you can't put the probing points on their map but we were wondering if you could put MW-14? This might help them see where it is in relation to their AOC and where a new well could be installed.

I have also CC'd Stephanie on this since Ashleigh and I will soon be passing this one on to Read.

Thank you!  
Caitlin

**Caitlin Reilly**  
Hydrogeologist  
Assessment & Non-Permitted Petroleum Section  
Underground Storage Tank Division  
**S.C. Dept. of Health & Environmental Control**  
Office: (803) 898-3807  
Fax: (803) 898-0673  
Connect: [www.scdhec.gov](http://www.scdhec.gov) [Facebook](#) [Twitter](#)



Re: UST# 04785 - Quick Pantry 19

Reilly, Caitlin M. <reillycm@dhec.sc.gov>

Thu 2/10/2022 3:57 PM

To: O'Quinn, Gregory <OQUINNGN@dhec.sc.gov>

Will do, thank you for the heads up!

Caitlin

**Caitlin Reilly**

Hydrogeologist

Assessment & Non-Permitted Petroleum Section  
Underground Storage Tank Division

**S.C. Dept. of Health & Environmental Control**

Office: (803) 898-3807

Fax: (803) 898-0673

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---

**From:** O'Quinn, Gregory <OQUINNGN@dhec.sc.gov>

**Sent:** Thursday, February 10, 2022 2:02 PM

**To:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>; Risa, Jr., P. Alan <risap2@dhec.sc.gov>

**Cc:** Grunzel, Greg <GRUNZEGD@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>

**Subject:** Re: UST# 04785 - Quick Pantry 19

Thank you, Caitlin. You can remove Greg Grunzel from your distribution. He is no longer with the Agency (retired).

Thanks

Gregg

**Gregory N. O'Quinn**

Office Manager Midlands Aiken

**S.C. Dept. of Health & Environmental Control**

Office: (803) 642-1637

Mobile: (803) 507-1713

Fax: (803) 643-4027

Connect: [www.scdhec.gov](http://www.scdhec.gov)



---

**From:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>

**Sent:** Thursday, February 10, 2022 8:52 AM

**To:** Risa, Jr., P. Alan <risap2@dhec.sc.gov>; O'Quinn, Gregory <OQUINNGN@dhec.sc.gov>



**Cc:** Grunzel, Greg <GRUNZEGD@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>

**Subject:** UST# 04785 - Quick Pantry 19

Good morning,

I wanted to give you a heads up that I will be conducting another site visit today at UST# 04785 - Quick Pantry 19. During this visit we will be checking the abatement trench on the adjacent property. Please let me know if you have any questions or concerns.

UST# 04785  
Quick Pantry 19  
1802 S Main Street  
Greenwood, SC 29646

Thanks,  
Caitlin

**Caitlin Reilly**  
Hydrogeologist  
Assessment & Non-Permitted Petroleum Section  
Underground Storage Tank Division  
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Re: UST# 04785 - Quick Pantry 19

Reilly, Caitlin M. <reillycm@dhec.sc.gov>

Tue 2/15/2022 9:28 AM

To: mkeller131@comcast.net <mkeller131@comcast.net>

Mark,

Well shoot, I have the report for the first event but I don't see the second one so it could of gotten lost in the mail or in our mail room. Can you send it over again? You can send it over via email and I can get them to scan it in for me. I'll make sure to get that invoice paid today as well.

Thank you!

Caitlin

**Caitlin Reilly**

Hydrogeologist

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---

**From:** Mark Keller <mkeller131@comcast.net>

**Sent:** Tuesday, February 15, 2022 9:20 AM

**To:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>

**Subject:** Re: UST# 04785 - Quick Pantry 19

\*\*\* Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. \*\*\*

Caitlin

We already sent that report weeks ago. If I need to send again please let me know

Thanks!

Mark

Mark L. Keller PG

President

KLM Environmental, LLC

PO Box 2704

Goose Creek SC 29445

Phone 843-870-4285

Fax: 843-797-1893

Office: 843-797-7884

On Feb 15, 2022, at 9:14 AM, Reilly, Caitlin M. <reillycm@dhec.sc.gov> wrote:

Good morning Mark!

I wanted to let you know we got the additional assessment report in yesterday so I'll be reviewing this morning. After that I will be passing this site over to Read/Robert. I was going through my open tasks and closing anything that I forgot so its ready for them and I notice the last AFVR report is still open, do you an estimated delivery date for that? I have the invoice for it on my desk so I can make myself a note to review it when it comes in.

Thanks!

Caitlin

**Caitlin Reilly**

Hydrogeologist

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Fw: UST#04785 - Quick Pantry 19

Reilly, Caitlin M. <reillycm@dhec.sc.gov>

Tue 2/15/2022 9:44 AM

To: Briney, Stephanie M. <brineysm@dhec.sc.gov>; Dunn, Robert <DUNNRA@dhec.sc.gov>

Cc: Miner, Read <minerrs@dhec.sc.gov>

Morning!

I just realized you guys weren't copied on this email, I'm sorry I didn't catch that sooner!

Thanks,  
Caitlin

**Caitlin Reilly**  
Hydrogeologist  
Assessment & Non-Permitted Petroleum Section  
Underground Storage Tank Division  
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---

**From:** Williams, Jason C. <williajc@dhec.sc.gov>

**Sent:** Friday, February 11, 2022 1:15 PM

**To:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>; Vincent, Malayika M. <vincenMM@dhec.sc.gov>

**Cc:** Cole, Robert <colerb@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>; Ethridge, Evan L. <ethridel@dhec.sc.gov>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>

**Subject:** Re: UST#04785 - Quick Pantry 19

We ran a couple of color tech screenings on a bit of the material we brought back. It indicated the presence of Stoddard solvent, and negative for chlorinated solvents. The consensus is that its some type of asphalt tar -probably a top coat/ sealant.

**Jason C. Williams**  
Environmental Health Manager  
State & Federal Site Assessment Section  
**S.C. Dept. of Health & Environmental Control**  
Office: (803) 898-0793  
Mobile: (803) 543-4846

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---

**From:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>  
**Sent:** Wednesday, February 9, 2022 2:19 PM  
**To:** Williams, Jason C. <williajc@dhec.sc.gov>; Vincent, Malayika M. <vincenMM@dhec.sc.gov>  
**Cc:** Cole, Robert <colerb@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>; Ethridge, Evan L. <ethridel@dhec.sc.gov>  
**Subject:** Re: UST#04785 - Quick Pantry 19

Hey Jason,

Sounds good, Malayika and I will meet you there in the morning. I also wanted to let you that Ryan Ariail will also be joining us but he is driving separately and there is a chance someone from our legal team will be joining us as well, Ryan is still waiting to hear back from them. During a phone call yesterday Ryan was told Mr. Smith and his lawyer will probably stop by at some point.

Thanks,  
Caitlin

**Caitlin Reilly**  
Hydrogeologist  
Assessment & Non-Permitted Petroleum Section  
Underground Storage Tank Division  
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---

**From:** Williams, Jason C. <williajc@dhec.sc.gov>  
**Sent:** Wednesday, February 9, 2022 12:00 PM  
**To:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>  
**Cc:** Cole, Robert <colerb@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>; Ethridge, Evan L. <ethridel@dhec.sc.gov>  
**Subject:** Re: UST#04785 - Quick Pantry 19

Our vehicles are at the far end of the back parking lot. We'll be taking the giant dark blue truck. Evan from my group will be meeting us there. I told Mr. Smith we will meet up in the parking lot of the old bakery behind Petroleum Products.

**Jason C. Williams**  
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---

**From:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>  
**Sent:** Wednesday, February 2, 2022 4:26 PM  
**To:** Williams, Jason C. <williajc@dhec.sc.gov>  
**Cc:** Cole, Robert <colerb@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>  
**Subject:** Re: UST#04785 - Quick Pantry 19

Awesome, I'll see you then!

**Caitlin Reilly**  
Hydrogeologist  
Assessment & Non-Permitted Petroleum Section  
Underground Storage Tank Division  
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---

**From:** Williams, Jason C. <williajc@dhec.sc.gov>  
**Sent:** Wednesday, February 2, 2022 3:32 PM  
**To:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>  
**Cc:** Cole, Robert <colerb@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>  
**Subject:** Re: UST#04785 - Quick Pantry 19

I just spoke with Mr. Smith. We are good to go for next Thursday.

**Jason C. Williams**  
Environmental Health Manager  
State & Federal Site Assessment Section  
**S.C. Dept. of Health & Environmental Control**  
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---

**From:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>  
**Sent:** Wednesday, February 2, 2022 1:00 PM



**To:** Williams, Jason C. <williajc@dhec.sc.gov>

**Subject:** Re: UST#04785 - Quick Pantry 19

Yup, that will work, thanks! Oh and here is Mr. Ronney Smith's phone number, 864-323-1049 and this is the number for his lawyer Tombo Hite, 864-538-9544. Let me know if you need anything in the meantime, see you next week.

-Caitlin

**Caitlin Reilly**

Hydrogeologist

Assessment & Non-Permitted Petroleum Section

Underground Storage Tank Division

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---

**From:** Williams, Jason C. <williajc@dhec.sc.gov>

**Sent:** Wednesday, February 2, 2022 12:58 PM

**To:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>

**Subject:** Re: UST#04785 - Quick Pantry 19

Sure. We have a F250 Crewcab if that's good for you guys.

**Jason C. Williams**

Environmental Health Manager

State & Federal Site Assessment Section

**S.C. Dept. of Health & Environmental Control**

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---

**From:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>

**Sent:** Wednesday, February 2, 2022 12:52 PM

**To:** Williams, Jason C. <williajc@dhec.sc.gov>

**Cc:** Vincent, Malayika M. <vincenMM@dhec.sc.gov>

**Subject:** Re: UST#04785 - Quick Pantry 19

How about we leave around 9:15? Its about an hour and half drive there and back so that should give us time to walk everything and get back before 4. Do you want us to check out a vehicle?

**Caitlin Reilly**  
Hydrogeologist  
Assessment & Non-Permitted Petroleum Section  
Underground Storage Tank Division  
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---

**From:** Williams, Jason C. <williajc@dhec.sc.gov>  
**Sent:** Wednesday, February 2, 2022 12:18 PM  
**To:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>  
**Subject:** Re: UST#04785 - Quick Pantry 19

The 10th it is then. We can all go together (I'm fully vaxxed and boosted, if that matters to anyone).  
What time would you like to leave?

**Jason C. Williams**  
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State & Federal Site Assessment Section  
**S.C. Dept. of Health & Environmental Control**  
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Mobile: (803) 543-4846

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---

**From:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>  
**Sent:** Wednesday, February 2, 2022 11:56 AM  
**To:** Williams, Jason C. <williajc@dhec.sc.gov>  
**Cc:** Vincent, Malayika M. <vincenMM@dhec.sc.gov>  
**Subject:** Re: UST#04785 - Quick Pantry 19

Hey Jason,

The 10th works the best for me. I have also reached out to one of our field geologist Malayika as well, she's gone with me on every site visit here so she will be great to have with us incase I forget anything. Will we be driving separately or would you like to drive together?

Thanks!  
Caitlin

**Caitlin Reilly**  
Hydrogeologist  
Assessment & Non-Permitted Petroleum Section

Underground Storage Tank Division  
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---

**From:** Williams, Jason C. <williajc@dhec.sc.gov>  
**Sent:** Wednesday, February 2, 2022 11:42 AM  
**To:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>  
**Subject:** Re: UST#04785 - Quick Pantry 19

I'm available Tues thru Fri next week (8th-10th) or anytime the weeks of the 21st or the 28th

**Jason C. Williams**  
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State & Federal Site Assessment Section  
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Mobile: (803) 543-4846

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---

**From:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>  
**Sent:** Monday, January 31, 2022 4:04 PM  
**To:** Williams, Jason C. <williajc@dhec.sc.gov>  
**Cc:** Thrash, Ashleigh <thrasham@dhec.sc.gov>  
**Subject:** Re: UST#04785 - Quick Pantry 19

Hey Jason,

I sent this over to Ashleigh and we were wondering if you have time to meet with us later this week? I don't know much about ASTs but she is the section manager for both UST and NPP so she'll be more knowledgeable on the subject.

Thanks!  
Caitlin

**Caitlin Reilly**  
Hydrogeologist  
Assessment & Non-Permitted Petroleum Section  
Underground Storage Tank Division  
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---

**From:** Williams, Jason C. <williajc@dhec.sc.gov>  
**Sent:** Monday, January 31, 2022 3:46 PM  
**To:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>  
**Subject:** Re: UST#04785 - Quick Pantry 19

Got it. Thanks!

I took a look at the at the Sanborn Fire Insurance maps for Greenwood. The 1947 map shows a structure listed as "Oil Depot" where Petroleum Products is located (See Attached). Looking at the historical aerial photos in the ERD Report and the Petroleum Products AST file, I'm almost convinced that the AST site is the source of the goo. Maybe old tank bottoms?

Thanks,

Jason

**Jason C. Williams**  
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State & Federal Site Assessment Section  
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Mobile: (803) 543-4846

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---

**From:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>  
**Sent:** Monday, January 31, 2022 3:30 PM  
**To:** Williams, Jason C. <williajc@dhec.sc.gov>  
**Subject:** UST#04785 - Quick Pantry 19

Hey Jason,

I thought it might be easier to share my folder with you. It has the aerial packet, site photos, data tables, and any other information I thought would be useful with meeting with Robert. Also I do remember the AST site now that I looked at it, I believe we listed that in the memo that was sent over.

Please let me know if you have questions about anything, thanks!  
Caitlin

**Caitlin Reilly**  
Hydrogeologist  
Assessment & Non-Permitted Petroleum Section  
Underground Storage Tank Division  
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Re: Info for Greenwood weekly Update

Briney, Stephanie M. <brineysm@dhec.sc.gov>

Wed 2/16/2022 1:38 PM

To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>

Thank you!

Stephanie Briney, Manager  
Corrective Action & Field Support Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management  
**S.C. Dept. of Health & Environmental Control**  
Office: (803) 898-0595  
Cell Phone (803) 608-0455  
Fax: (803)-898-0673  
Connect: [www.scdhec.gov](http://www.scdhec.gov) [Facebook](#) [Twitter](#)



---

**From:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>

**Date:** Wednesday, February 16, 2022 at 1:29 PM

**To:** Briney, Stephanie M. <brineysm@dhec.sc.gov>, Cathcart, Eric F. <cathcaef@dhec.sc.gov>

**Subject:** Re: Info for Greenwood weekly Update

Hey Stephanie,

This week I received and reviewed the last AFVR report and the additional assessment report.

Thanks!

Caitlin

**Caitlin Reilly**

Hydrogeologist

Assessment & Non-Permitted Petroleum Section

Underground Storage Tank Division

**S.C. Dept. of Health & Environmental Control**

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---

**From:** Briney, Stephanie M. <brineysm@dhec.sc.gov>  
**Sent:** Wednesday, February 16, 2022 1:20 PM  
**To:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>; Cathcart, Eric F. <cathcaef@dhec.sc.gov>  
**Subject:** Info for Greenwood weekly Update

Hello,

I was wondering if both of you could provide me with any updates on the Greenwood site that happened this week. Thanks!

Stephanie Briney, Manager  
Corrective Action & Field Support Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management  
**S.C. Dept. of Health & Environmental Control**  
Office: (803) 898-0595  
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Re: Quick Pantry 19

Reilly, Caitlin M. <reillycm@dhec.sc.gov>

Tue 2/22/2022 8:59 AM

To: Ariail, Ryan D. <AriailRD@dhec.sc.gov>

No problem! I always have a hard time finding stuff for this site in WebEx.

**Caitlin Reilly**

Hydrogeologist

Assessment & Non-Permitted Petroleum Section

Underground Storage Tank Division

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---

**From:** Ariail, Ryan D. <AriailRD@dhec.sc.gov>

**Sent:** Friday, February 18, 2022 4:49 PM

**To:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>

**Subject:** Re: Quick Pantry 19

my apologies. I didn't scroll that far down. Looks like webX is a little shuffled with dates and docket numbers.

---

Ryan D. Ariail

UST Customer Service Representative

Underground Storage Tank Management Division

**S.C. Dept. of Health & Environmental Control**

Office: (803) 898-9418

Cell: (803) 608-0418

ariailrd@dhec.sc.gov

Connect: [www.scdhec.gov](http://www.scdhec.gov) [Facebook](#) [Twitter](#)



*"It's a great day in South Carolina!"*

**"Effective May 26, 2017, there were changes to the SC UST Regulations, which may affect you. Please go to <https://www.scdhec.gov/environment/land-management/underground-storage-tanks> for more information.**

---

**From:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>

**Sent:** Friday, February 18, 2022 4:24 PM

**To:** Ariail, Ryan D. <AriailRD@dhec.sc.gov>

**Subject:** Re: Quick Pantry 19

Hey Ryan,

I see the Tier II was scanned in on 10/6/21, docketnum 70.

Thanks!

Caitlin

**Caitlin Reilly**

Hydrogeologist

Assessment & Non-Permitted Petroleum Section

Underground Storage Tank Division

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---

**From:** Ariail, Ryan D. <AriailRD@dhec.sc.gov>

**Sent:** Friday, February 18, 2022 3:45 PM

**To:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>

**Subject:** Quick Pantry 19

Good afternoon, Caitlin.

Can you please have the Tier II Report scanned in for the Greenwood releases.

Thanks

Ryan

---

Ryan D. Ariail

UST Customer Service Representative

Underground Storage Tank Management Division

**S.C. Dept. of Health & Environmental Control**

Office: (803) 898-9418

Cell: (803) 608-0418

ariailrd@dhec.sc.gov

Connect: [www.scdhec.gov](http://www.scdhec.gov) [Facebook](#) [Twitter](#)





*"It's a great day in South Carolina!"*

**"Effective May 26, 2017, there were changes to the SC UST Regulations, which may affect you. Please go to <https://www.scdhec.gov/environment/land-management/underground-storage-tanks> for more information.**

UST # 04785

Mark Lee Keller <mkeller131@comcast.net>

Wed 1/5/2022 4:45 PM

To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>; Vincent, Malayika M. <vincenMM@dhec.sc.gov>

\*\*\* Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. \*\*\*


Caitlin and Malayika,

We have the 96 hour AFVR event scheduled for this site January 10<sup>th</sup> through 14<sup>th</sup>.

Thanks!

Mark

Mark L. Keller, PG  
President

 KLM Environmental, LLC

PO Box 2704

Goose Creek, SC 29445

843-870-4285 Cell



Re: Greenwood VCC Map

Reilly, Caitlin M. <reillycm@dhec.sc.gov>

Fri 1/7/2022 2:02 PM

To: Gorman, Angela <gormanak@dhec.sc.gov>

Thank you! I will pass this along to Mark so he can start thinking about where he wants those wells to go.

**Caitlin Reilly**

Hydrogeologist

Assessment & Non-Permitted Petroleum Section

Underground Storage Tank Division

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---

**From:** Gorman, Angela <gormanak@dhec.sc.gov>

**Sent:** Thursday, January 6, 2022 5:12 PM

**To:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>

**Cc:** Miner, Read <minerrs@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>

**Subject:** Re: Greenwood VCC Map

See attached the latest version that I have. I believe the city is planning to modify the extent of the caps/covers (to be installed over the areas marked as "AOC") on the western portion such that caps/covers will also be installed in the area between AOC1 and AOC2 as marked on this plan, and will not extend the caps/covers beyond the western property boundary.

**Angela Gorman**

Hydrogeologist

Brownfields Program

**S.C. Dept. of Health & Environmental Control**

Office: (803) 898-0929

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---

**From:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>

**Sent:** Thursday, January 6, 2022 4:24 PM

**To:** Gorman, Angela <gormanak@dhec.sc.gov>

**Cc:** Miner, Read <minerrs@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>

**Subject:** Greenwood VCC Map



Hey Angela,

I hope you had a good holiday! I was wondering if you could send me a copy of the VCC site map or CAD file so I can get it over to Mark with KLM. They are gauging the temporary wells next week so we need to start planning for the permanent well installation and having that map that shows the cities plans would really help him out.

Thank you!  
Caitlin

**Caitlin Reilly**  
Hydrogeologist I  
Assessment & Non-Permitted Petroleum Section  
Underground Storage Tank Division  
**S.C. Dept. of Health & Environmental Control**  
Office: (803) 898-3807  
Fax: (803) 898-0673  
Connect: [www.scdhec.gov](http://www.scdhec.gov) [Facebook](#) [Twitter](#)

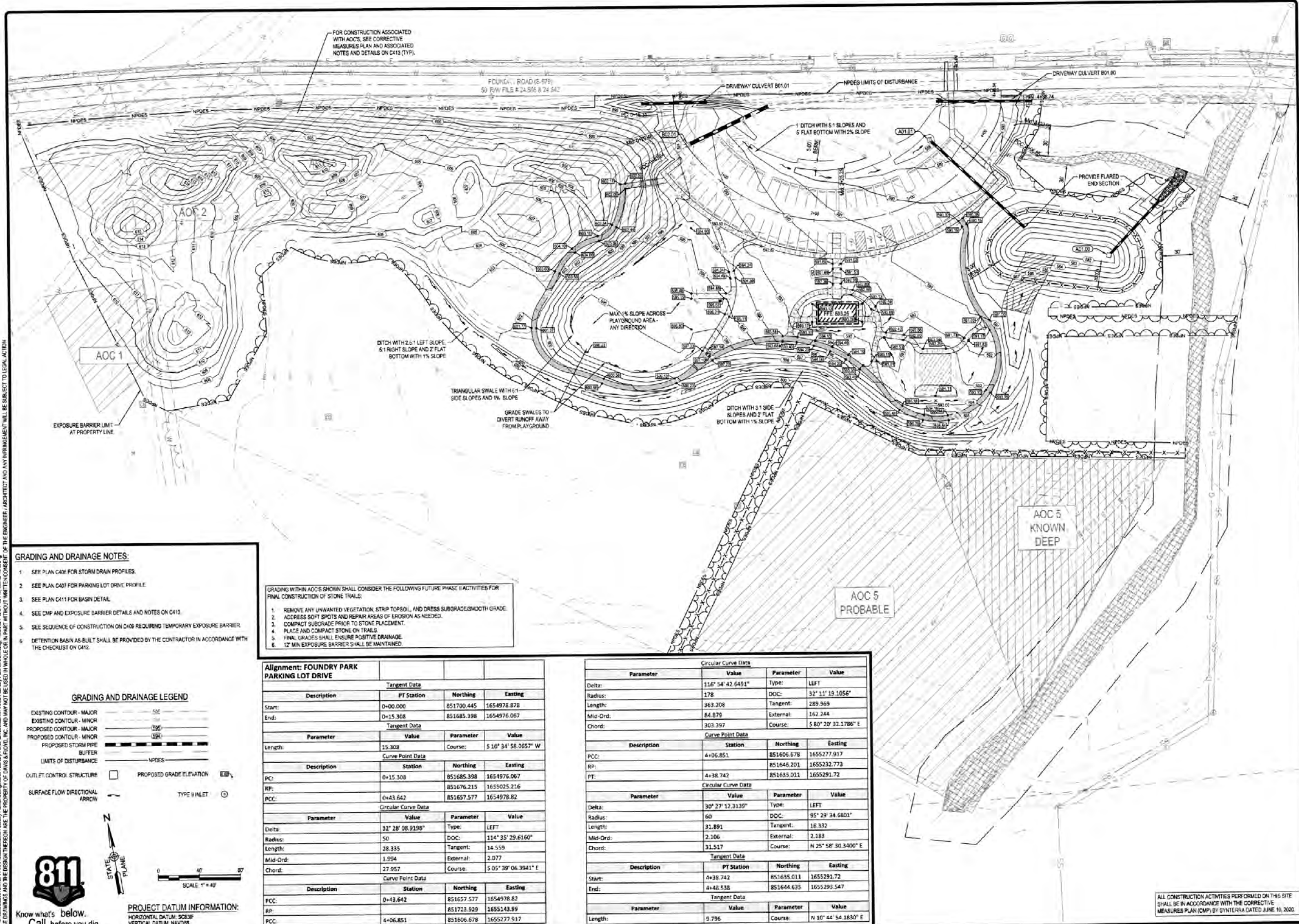












FOR CONSTRUCTION ASSOCIATED WITH AOC'S, SEE CORRECTIVE MEASURES PLAN AND ASSOCIATED NOTES AND DETAILS ON C413 (TYP).

FOUNDRY PARK ROAD (S-979)  
50' F.W. FILE # 24.576 & 24.542

DRIVEWAY CULVERT B01.01

DRIVEWAY CULVERT B01.00

1' DITCH WITH 5:1 SLOPES AND 6" FLAT BOTTOM WITH 2% SLOPE

PROVIDE FLARED END SECTION

MAX 1% SLOPE ACROSS PLAYGROUND AREA - ANY DIRECTION

DITCH WITH 2.5:1 LEFT SLOPE, 5:1 RIGHT SLOPE AND 2' FLAT BOTTOM WITH 1% SLOPE

TRIANGULAR SWALE WITH 0:1 SIDE SLOPES AND 1% SLOPE

GRADE SWALES TO DIVERT RUNOFF AWAY FROM PLAYGROUND

DITCH WITH 3:1 SIDE SLOPES AND 2' FLAT BOTTOM WITH 1% SLOPE

AOC 5 KNOWN DEEP

AOC 5 PROBABLE

- GRADING AND DRAINAGE NOTES:**
- SEE PLAN C406 FOR STORM DRAIN PROFILES.
  - SEE PLAN C407 FOR PARKING LOT DRIVE PROFILE.
  - SEE PLAN C411 FOR BASIN DETAIL.
  - SEE CMP AND EXPOSURE BARRIER DETAILS AND NOTES ON C413.
  - SEE SEQUENCE OF CONSTRUCTION ON C409 REQUIRING TEMPORARY EXPOSURE BARRIER.
  - DETENTION BASIN AS-BUILT SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH THE CHECKLIST ON C412.

- GRADING WITHIN AOC'S SHOWN SHALL CONSIDER THE FOLLOWING FUTURE PHASE II ACTIVITIES FOR FINAL CONSTRUCTION OF STONE TRAILS:
- REMOVE ANY UNWANTED VEGETATION, STRIP TOPSOIL, AND DRESS SUBGRADE/SMOOTH GRADE.
  - ADDRESS SOFT SPOTS AND REPAIR AREAS OF EROSION AS NEEDED.
  - COMPACT SUBGRADE PRIOR TO STONE PLACEMENT.
  - PLACE AND COMPACT STONE ON TRAILS.
  - FINAL GRADES SHALL ENSURE POSITIVE DRAINAGE.
  - 12" MIN EXPOSURE BARRIER SHALL BE MAINTAINED.

**GRADING AND DRAINAGE LEGEND**

- EXISTING CONTOUR - MAJOR
- EXISTING CONTOUR - MINOR
- PROPOSED CONTOUR - MAJOR
- PROPOSED CONTOUR - MINOR
- PROPOSED STORM PIPE BUTTER
- LIMITS OF DISTURBANCE
- OUTLET CONTROL STRUCTURE
- SURFACE FLOW DIRECTIONAL ARROW
- PROPOSED GRADE ELEVATION
- TYPE II INLET

**811**  
Know what's below.  
Call before you dig.

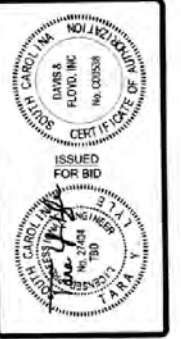
PROJECT DATUM INFORMATION:  
HORIZONTAL DATUM: NAD83  
VERTICAL DATUM: NAVD83

**Alignment: FOUNDRY PARK PARKING LOT DRIVE**

Tangent Data			
Description	PT Station	Northing	Easting
Start:	0+00.000	851700.445	1654978.878
End:	0+15.308	851685.398	1654976.067
Tangent Data			
Parameter	Value	Parameter	Value
Length:	15.308	Course:	S 16° 34' 58.057" W
Curve Point Data			
Description	Station	Northing	Easting
PC:	0+15.308	851685.398	1654976.067
RP:		851676.215	1655025.216
PCC:	0+43.642	851657.577	1654978.82
Circular Curve Data			
Parameter	Value	Parameter	Value
Delta:	32° 28' 08.9198"	Type:	LEFT
Radius:	50	DOC:	114° 35' 29.6160"
Length:	28.335	Tangent:	14.559
Mid-Ord:	1.994	External:	2.077
Chord:	27.957	Course:	S 05° 39' 06.3941" E
Curve Point Data			
Description	Station	Northing	Easting
PCC:	0+43.642	851657.577	1654978.82
RP:		851723.929	1655143.99
PCC:	4+06.851	851606.678	1655277.917

Circular Curve Data			
Parameter	Value	Parameter	Value
Delta:	116° 54' 42.6491"	Type:	LEFT
Radius:	178	DOC:	32° 11' 19.1056"
Length:	363.208	Tangent:	289.969
Mid-Ord:	84.879	External:	162.244
Chord:	303.397	Course:	S 80° 20' 32.1786" E
Curve Point Data			
Description	Station	Northing	Easting
PCC:	4+06.851	851606.678	1655277.917
RP:		851646.201	1655232.773
PT:	4+38.742	851635.011	1655291.72
Circular Curve Data			
Parameter	Value	Parameter	Value
Delta:	30° 27' 12.3139"	Type:	LEFT
Radius:	60	DOC:	95° 29' 34.6801"
Length:	31.891	Tangent:	16.332
Mid-Ord:	2.106	External:	2.183
Chord:	31.517	Course:	N 25° 58' 30.3400" E
Tangent Data			
Description	PT Station	Northing	Easting
Start:	4+38.742	851635.011	1655291.72
End:	4+48.538	851644.625	1655293.547
Tangent Data			
Parameter	Value	Parameter	Value
Length:	9.796	Course:	N 10° 44' 54.1850" E

ALL CONSTRUCTION ACTIVITIES PERFORMED ON THIS SITE SHALL BE IN ACCORDANCE WITH THE CORRECTIVE MEASURES PLAN (CMP) BY SYNTERRA DATED JUNE 10, 2002.



**DAVIS & FLOYD**  
SINCE 1814  
119 HIGWAY 2022 EAST  
GREENWOOD, SOUTH CAROLINA 29649  
804.726.5211

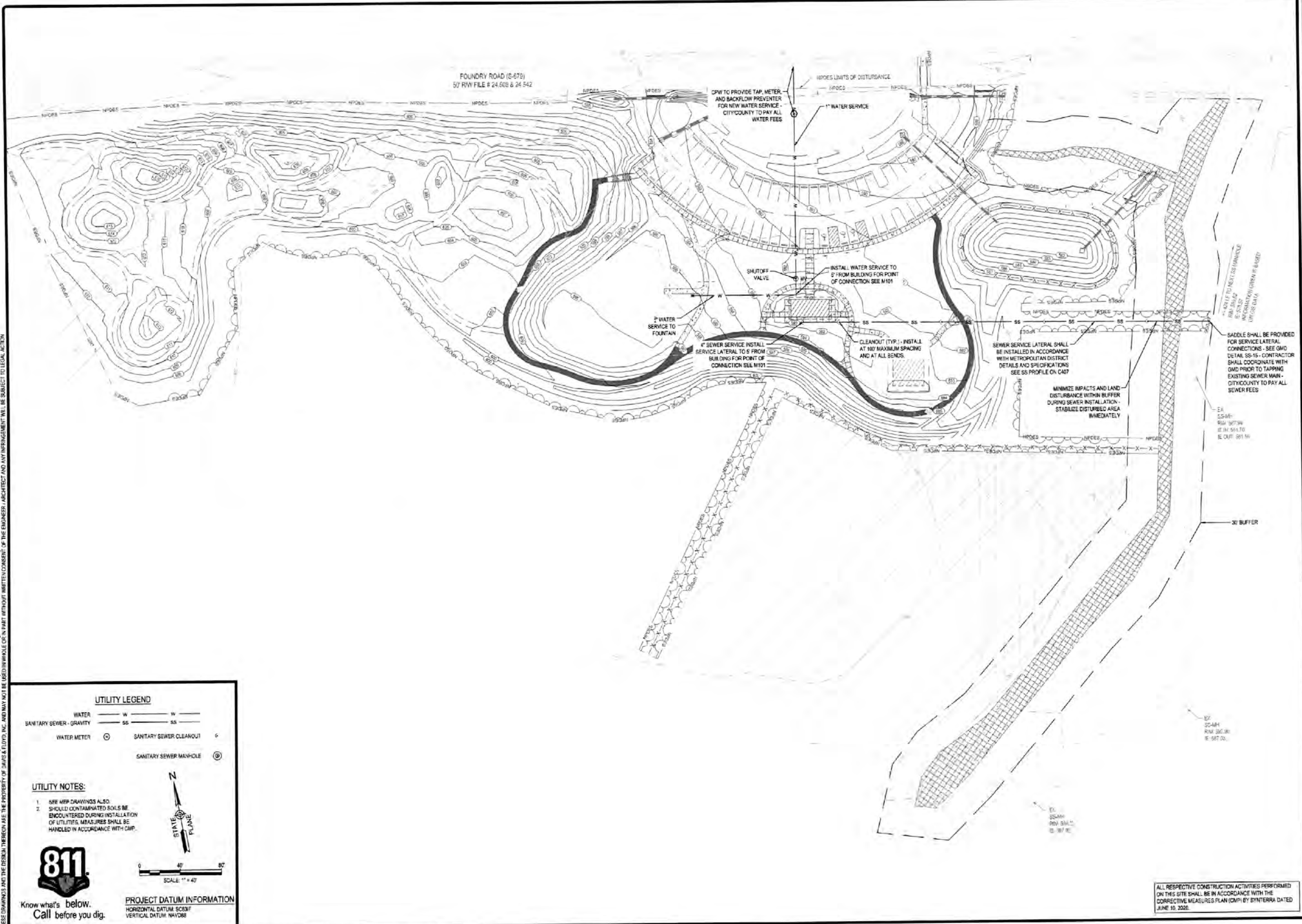
CITY OF GREENWOOD & GREENWOOD COUNTY  
GREENWOOD COUNTY, SOUTH CAROLINA  
GREENWOOD PARKS - PHASE ONE

FOUNDRY PARK  
GRADING AND DRAINAGE  
PLAN

DATE	07/24/00	BY	DAVID FLOYD
SCALE	AS SHOWN	CHECKED	DAVID FLOYD
PROJECT	GREENWOOD PARKS - PHASE ONE	DESIGNED	DAVID FLOYD
NO.	C403	PLOTTED	DAVID FLOYD
DATE	07/24/00	BY	DAVID FLOYD
SCALE	AS SHOWN	CHECKED	DAVID FLOYD
PROJECT	GREENWOOD PARKS - PHASE ONE	DESIGNED	DAVID FLOYD
NO.	C403	PLOTTED	DAVID FLOYD



FOUNDATION ROAD (S-67B) 57 RW FILE # 24.603 & 24.542  
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**UTILITY LEGEND**

WATER — W — W  
 SANITARY SEWER - GRAVITY — SS — SS  
 WATER METER (C) SANITARY SEWER CLEANOUT (C)  
 SANITARY SEWER MANHOLE (M)

**UTILITY NOTES:**

- SEE MEP DRAWINGS ALSO.
- SHOULD CONTAMINATED SOILS BE ENCOUNTERED DURING INSTALLATION OF UTILITIES, MEASURES SHALL BE HANDLED IN ACCORDANCE WITH CMP.

**811**  
Know what's below.  
Call before you dig.

**PROJECT DATUM INFORMATION**  
 HORIZONTAL DATUM: SCRSIF  
 VERTICAL DATUM: NAVD83



**DAVIS & FLOYD**  
 SINCE 1954  
 1311 HIGHWAY 73221 EAST  
 GREENWOOD, SOUTH CAROLINA 29649  
 (864) 225-5111

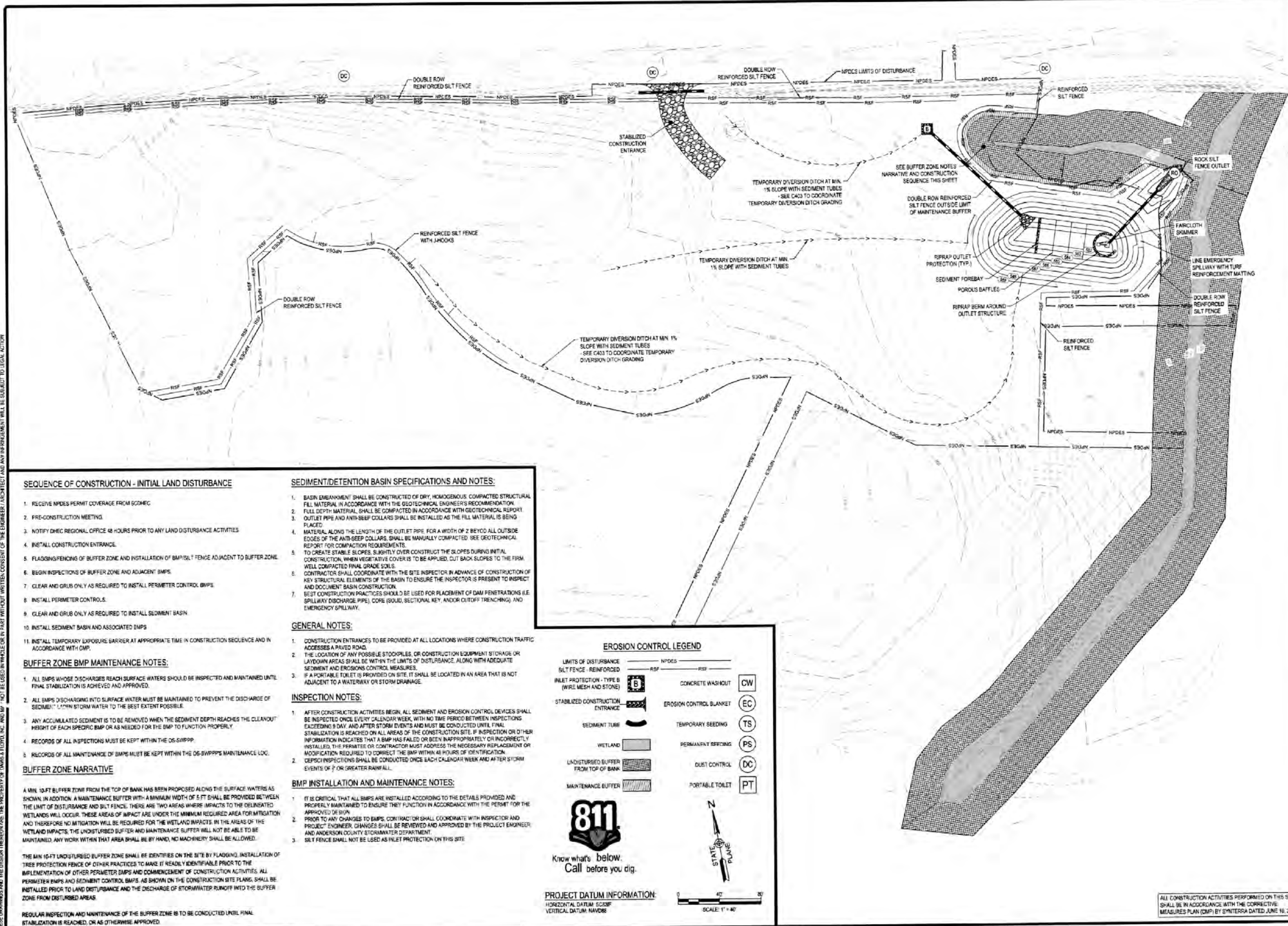
**CITY OF GREENWOOD & GREENWOOD COUNTY**  
 GREENWOOD COUNTY, SOUTH CAROLINA  
 GREENWOOD PARKS - PHASE ONE

**FOUNDRY PARK UTILITY PLAN**

NO.	DATE	BY	REVISION
1	01/17/24	SS	ISSUED FOR BID
2	06/10/20	SS	ISSUED FOR BID
3	06/10/20	SS	ISSUED FOR BID
4	06/10/20	SS	ISSUED FOR BID
5	06/10/20	SS	ISSUED FOR BID
6	06/10/20	SS	ISSUED FOR BID
7	06/10/20	SS	ISSUED FOR BID
8	06/10/20	SS	ISSUED FOR BID
9	06/10/20	SS	ISSUED FOR BID
10	06/10/20	SS	ISSUED FOR BID
11	06/10/20	SS	ISSUED FOR BID
12	06/10/20	SS	ISSUED FOR BID
13	06/10/20	SS	ISSUED FOR BID
14	06/10/20	SS	ISSUED FOR BID
15	06/10/20	SS	ISSUED FOR BID
16	06/10/20	SS	ISSUED FOR BID
17	06/10/20	SS	ISSUED FOR BID
18	06/10/20	SS	ISSUED FOR BID
19	06/10/20	SS	ISSUED FOR BID
20	06/10/20	SS	ISSUED FOR BID

PROJECT NO: 01714-00  
 DATE: 06/10/20  
 DRAWN BY: SS  
 CHECKED BY: SS  
 IN CHARGE: SS  
 PROJECT: GREENWOOD PARKS - PHASE ONE  
 SHEET NO: 29 OF 83  
**C408**  
 ALL RESPECTIVE CONSTRUCTION ACTIVITIES PERFORMED ON THIS SITE SHALL BE IN ACCORDANCE WITH THE CORRECTIVE MEASURES PLAN (CMP) BY SYNTERRA DATED JUNE 10, 2020.





**SEQUENCE OF CONSTRUCTION - INITIAL LAND DISTURBANCE**

1. RECEIVE NPDES PERMIT COVERAGE FROM SCDEH
2. PRE-CONSTRUCTION MEETING
3. NOTIFY DMHC REGIONAL OFFICE 48 HOURS PRIOR TO ANY LAND DISTURBANCE ACTIVITIES
4. INSTALL CONSTRUCTION ENTRANCE
5. FLAGGING/FENCING OF BUFFER ZONE AND INSTALLATION OF BMP/SILT FENCE ADJACENT TO BUFFER ZONE
6. BEGIN INSPECTIONS OF BUFFER ZONE AND ADJACENT BMPs
7. CLEAR AND GRUB ONLY AS REQUIRED TO INSTALL PERIMETER CONTROL BMPs
8. INSTALL PERIMETER CONTROL S
9. CLEAR AND GRUB ONLY AS REQUIRED TO INSTALL SEDIMENT BASIN
10. INSTALL SEDIMENT BASIN AND ASSOCIATED BMPs
11. INSTALL TEMPORARY EXPOSURE BARRIER AT APPROPRIATE TIME IN CONSTRUCTION SEQUENCE AND IN ACCORDANCE WITH OMP.

**BUFFER ZONE BMP MAINTENANCE NOTES:**

1. ALL BMPs WHOSE DISCHARGES REACH SURFACE WATERS SHOULD BE INSPECTED AND MAINTAINED UNTIL FINAL STABILIZATION IS ACHIEVED AND APPROVED.
2. ALL BMPs DISCHARGING INTO SURFACE WATER MUST BE MAINTAINED TO PREVENT THE DISCHARGE OF SEDIMENT LATER STORM WATER TO THE BEST EXTENT POSSIBLE.
3. ANY ACCUMULATED SEDIMENT IS TO BE REMOVED WHEN THE SEDIMENT DEPTH REACHES THE CLEANOUT HEIGHT OF EACH SPECIFIC BMP OR AS NEEDED FOR THE BMP TO FUNCTION PROPERLY.
4. RECORDS OF ALL INSPECTIONS MUST BE KEPT WITHIN THE OS-SWPPP.
5. RECORDS OF ALL MAINTENANCE OF BMPs MUST BE KEPT WITHIN THE OS-SWPPP'S MAINTENANCE LOG.

**BUFFER ZONE NARRATIVE**

A MIN. 10-FT BUFFER ZONE FROM THE TOP OF BANK HAS BEEN PROPOSED ALONG THE SURFACE WATERS AS SHOWN. IN ADDITION, A MAINTENANCE BUFFER WITH A MINIMUM WIDTH OF 5-FT SHALL BE PROVIDED BETWEEN THE LIMIT OF DISTURBANCE AND SILT FENCE. THERE ARE TWO AREAS WHERE IMPACTS TO THE DELINEATED WETLANDS WILL OCCUR. THESE AREAS OF IMPACT ARE UNDER THE MINIMUM REQUIRED AREA FOR MITIGATION AND THEREFORE NO MITIGATION WILL BE REQUIRED FOR THE WETLAND IMPACTS. IN THE AREAS OF THE WETLAND IMPACTS, THE UNDISTURBED BUFFER AND MAINTENANCE BUFFER WILL NOT BE ABLE TO BE MAINTAINED. ANY WORK WITHIN THAT AREA SHALL BE BY HAND, NO MACHINERY SHALL BE ALLOWED.

THE MIN. 10-FT UNDISTURBED BUFFER ZONE SHALL BE IDENTIFIED ON THE SITE BY FLAGGING. INSTALLATION OF TREE PROTECTION FENCE OF OTHER PRACTICES TO MAKE IT READILY IDENTIFIABLE PRIOR TO THE IMPLEMENTATION OF OTHER PERIMETER BMPs AND COMMENCEMENT OF CONSTRUCTION ACTIVITIES. ALL PERIMETER BMPs AND SEDIMENT CONTROL BMPs AS SHOWN ON THE CONSTRUCTION SITE PLANS, SHALL BE INSTALLED PRIOR TO LAND DISTURBANCE AND THE DISCHARGE OF STORMWATER RUNOFF INTO THE BUFFER ZONE FROM DISTURBED AREAS.

REGULAR INSPECTION AND MAINTENANCE OF THE BUFFER ZONE IS TO BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED, OR AS OTHERWISE APPROVED.

**SEDIMENT/DETENTION BASIN SPECIFICATIONS AND NOTES:**

1. BASIN EMBANKMENT SHALL BE CONSTRUCTED OF DRY, HOMOGENOUS, COMPACTED STRUCTURAL FILL MATERIAL IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATION.
2. FULL DEPTH MATERIAL SHALL BE COMPACTED IN ACCORDANCE WITH GEOTECHNICAL REPORT.
3. OUTLET PIPE AND ANTI-SEEP COLLARS SHALL BE INSTALLED AS THE FILL MATERIAL IS BEING PLACED.
4. MATERIAL ALONG THE LENGTH OF THE OUTLET PIPE, FOR A WIDTH OF 2' BEYOND ALL OUTSIDE EDGES OF THE ANTI-SEEP COLLARS, SHALL BE MANUALLY COMPACTED. SEE GEOTECHNICAL REPORT FOR COMPACTION REQUIREMENTS.
5. TO CREATE STABLE SLOPES, SLIGHTLY OVER CONSTRUCT THE SLOPES DURING INITIAL CONSTRUCTION, WHEN VEGETATIVE COVER IS TO BE APPLIED, CUT BACK SLOPES TO THE FIRM, WELL COMPACTED FINAL GRADE SOILS.
6. CONTRACTOR SHALL COORDINATE WITH THE SITE INSPECTOR IN ADVANCE OF CONSTRUCTION OF KEY STRUCTURAL ELEMENTS OF THE BASIN TO ENSURE THE INSPECTOR IS PRESENT TO INSPECT AND DOCUMENT BASIN CONSTRUCTION.
7. BEST CONSTRUCTION PRACTICES SHOULD BE USED FOR PLACEMENT OF DAM PENETRATIONS (I.E. SPILLWAY DISCHARGE PIPE), CORE (SOLID, SECTIONAL KEY, AND/OR CUTOFF TRENCHING) AND EMERGENCY SPILLWAY.

**GENERAL NOTES:**

1. CONSTRUCTION ENTRANCES TO BE PROVIDED AT ALL LOCATIONS WHERE CONSTRUCTION TRAFFIC ACCESSES A PAVED ROAD.
2. THE LOCATION OF ANY POSSIBLE STOCKPILES, OR CONSTRUCTION EQUIPMENT STORAGE OR LAYDOWN AREAS SHALL BE WITHIN THE LIMITS OF DISTURBANCE, ALONG WITH ADEQUATE SEDIMENT AND EROSION CONTROL MEASURES.
3. IF A PORTABLE TOILET IS PROVIDED ON SITE, IT SHALL BE LOCATED IN AN AREA THAT IS NOT ADJACENT TO A WATERWAY OR STORM DRAINAGE.

**INSPECTION NOTES:**

1. AFTER CONSTRUCTION ACTIVITIES BEGIN, ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK, WITH NO TIME PERIOD BETWEEN INSPECTIONS EXCEEDING 9 DAY, AND AFTER STORM EVENTS AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE. IF INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS FAILED OR BEEN INAPPROPRIATELY OR INCORRECTLY INSTALLED, THE PERMITEE OR CONTRACTOR MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION.
2. DESPITE INSPECTIONS SHALL BE CONDUCTED ONCE EACH CALENDAR WEEK AND AFTER STORM EVENTS OF 2" OR GREATER RAINFALL.

**BMP INSTALLATION AND MAINTENANCE NOTES:**

1. IT IS CRITICAL THAT ALL BMPs BE INSTALLED ACCORDING TO THE DETAILS PROVIDED AND PROPERLY MAINTAINED TO ENSURE THEY FUNCTION IN ACCORDANCE WITH THE PERMIT FOR THE APPROVED DESIGN.
2. PRIOR TO ANY CHANGES TO BMPs, CONTRACTOR SHALL COORDINATE WITH INSPECTOR AND PROJECT ENGINEER. CHANGES SHALL BE REVIEWED AND APPROVED BY THE PROJECT ENGINEER AND ANDERSON COUNTY STORMWATER DEPARTMENT.
3. SILT FENCE SHALL NOT BE USED AS INLET PROTECTION ON THIS SITE.

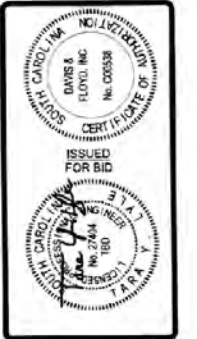
**EROSION CONTROL LEGEND**

LIMITS OF DISTURBANCE	NPDES	
SILT FENCE - REINFORCED	RSF	
INLET PROTECTION - TYPE B (WIRE MESH AND STONE)	B	CONCRETE WASHOUT (CW)
STABILIZED CONSTRUCTION ENTRANCE	SC	EROSION CONTROL BLANKET (EC)
SEDIMENT TUBE	ST	TEMPORARY SEEDING (TS)
WETLAND	W	PERMANENT SEEDING (PS)
UNDISTURBED BUFFER FROM TOP OF BANK	UB	DUST CONTROL (DC)
MAINTENANCE BUFFER	MB	PORTABLE TOILET (PT)

**811**  
Know what's below. Call before you dig.

**PROJECT DATUM INFORMATION:**  
HORIZONTAL DATUM: SC83P  
VERTICAL DATUM: NAVD83

SCALE: 1" = 40'



**DAVIS & FLOYD**  
SINCE 1954  
1319 HURWY 722Z EAST  
GREENWOOD, SOUTH CAROLINA 29646  
(843) 225-5111

CITY OF GREENWOOD & GREENWOOD COUNTY  
GREENWOOD COUNTY, SOUTH CAROLINA  
GREENWOOD PARKS - PHASE ONE

FOUNDRY PARK  
SWPPP PLAN - INITIAL  
LAND DISTURBANCE

NO.	DATE	BY	REVISION
1	06/10/20	TYL	ISSUED FOR BID
2	06/10/20	TYL	REVISED
3	06/10/20	TYL	REVISED
4	06/10/20	TYL	REVISED
5	06/10/20	TYL	REVISED
6	06/10/20	TYL	REVISED
7	06/10/20	TYL	REVISED
8	06/10/20	TYL	REVISED
9	06/10/20	TYL	REVISED
10	06/10/20	TYL	REVISED

C409

ALL CONSTRUCTION ACTIVITIES PERFORMED ON THIS SITE SHALL BE IN ACCORDANCE WITH THE CORRECTIVE MEASURES PLAN (CMP) BY SYNTERRA DATED JUNE 10, 2020.











**PLANT SCHEDULE - FOUNDRY PARK**

TREES	CODE	QTY	BOTANICAL / COMMON NAME	CONT.	CAL.	SIZE	SPAC.
	ACER2	3	Acer rubrum 'October Glory' TM / October Glory Maple	B & B	2.5" CAL	As Sh	
	CERC	5	Cercis canadensis / Eastern Redbud	B & B	2.5" CAL	As Sh	
	MAG TED	4	Magnolia grandiflora 'Southern Charm' TM / Teddy Bear Southern Magnolia	B & B	2.5" CAL	As Sh	
	QUEP	2	Quercus prinus 'QPSTA' TM / Hightower Willow Oak Full, Natural Form	B & B	2.5" CAL	As Sh	
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	CONT.	SIZE	SPAC.	
	ILEV	36	Ilex verticillata 'Stokes Dwarf' / Dwarf Yaupon	3 gal	18"-24"	As Sh	
	LORC	27	Loropetalum chinense var. 'natum' 'PILCO' TM / Crimson Fire Fringe Flower	3 gal	18"-24"	As Sh	
ANNUALS/PERENNIALS	CODE	QTY	BOTANICAL / COMMON NAME	CONT.	SIZE	SPAC.	
	EDHC	12	Echinacea 'Cheyenne Spirit' / Cheyenne Spirit Coneflower	1 gal	-	As Sh	

**ABBREVIATION NOTE:**

WHERE AN ABBREVIATION IS SHOWN, THE FOLLOWING NOTES APPLY:  
 QTY - QUANTITY OF PLANT MATERIAL REQUIRED FOR THE PROJECT.  
 (NOTE: CONTRACTOR RESPONSIBLE TO VERIFY QUANTITIES INDICATED. PLAN SHALL TAKE PRECEDENCE OVER SCHEDULE.)  
 BOTANICAL/Common Name: PLANT MATERIAL TO BE INSTALLED.  
 CONT - CONTAINER TYPE WHICH PLANT MATERIAL IS ENCASED UPON SITE DELIVERY.  
 (HEIGHT AND CALIPER SHALL TAKE PRECEDENCE OVER CONTAINER.)  
 CAL - CALIPER/DIAMETER OF TRUNK (CALIPER SHALL TAKE PRECEDENCE OVER HEIGHT AND SPREAD.)  
 SIZE - HEIGHT AND/OR WIDTH OF PLANT MATERIAL AT INSTALLATION.  
 SPACING - DISTANCE FROM CENTER OF EACH PLANT. (PLAN SHALL TAKE PRECEDENCE OVER SCHEDULE.)  
 REMARKS - SPECIFIC NOTES FURTHER SPECIFYING OR DESCRIBING PLANT MATERIAL.

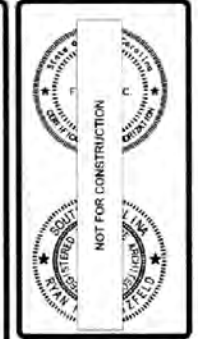
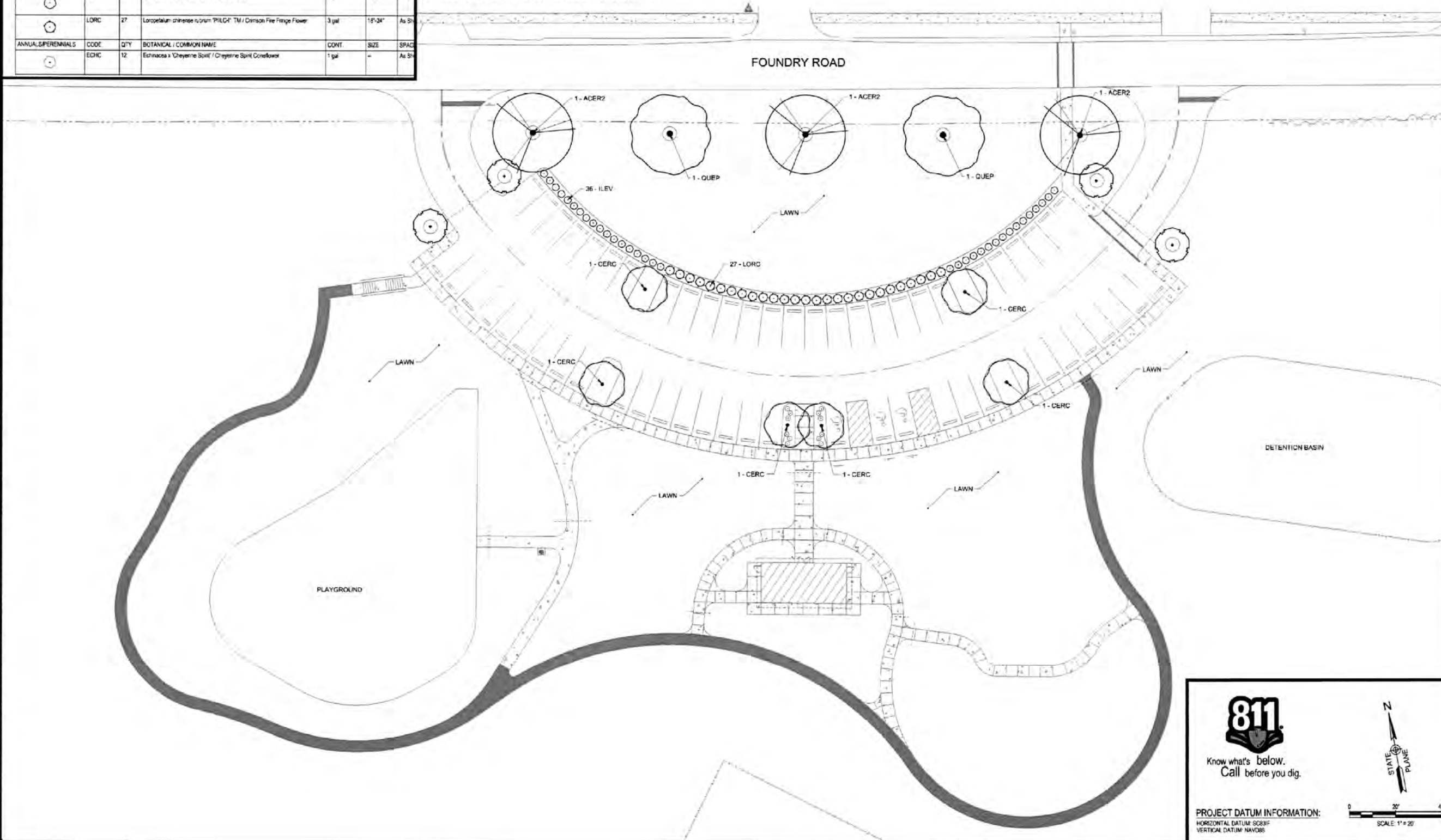
**QUANTITIES NOTES:**

PLANT MATERIAL LIST AND M&M SCHEDULE PREPARED FOR ESTIMATING PURPOSES ONLY. QUANTITY ESTIMATES HAVE BEEN MADE CAREFULLY, BUT THE LANDSCAPE ARCHITECT ASSUMES NO LIABILITY FOR OMISSIONS OR ERRORS. CONTRACTORS SHALL MAKE THEIR OWN QUANTITY TAKE-OFFS USING DRAWINGS TO DETERMINE QUANTITIES TO THEIR SATISFACTION, REPORTING PROMPTLY TO THE LANDSCAPE ARCHITECT ANY DISCREPANCIES WHICH MAY AFFECT BIDDING. NO EXTRA COMPENSATION SHALL BE ALLOWED FOR EXTRA QUANTITIES NECESSARY TO COMPLETE THE WORK.

**NOTES:**

1. QUANTITIES PROVIDED DO NOT ACCOUNT FOR WASTE.
2. CONTRACTOR SHALL VERIFY ALL QUANTITIES AND INSTALL ACCORDING TO PLAN.

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**DAVIS & FLOYD**  
 SINCE 1854  
 WWW.DAVISANDFLOYD.COM  
 1119 HIGHWAY 202, EAST GREENWOOD, SOUTH CAROLINA 29646  
 (803) 228-5011

CITY OF GREENWOOD & GREENWOOD COUNTY  
 GREENWOOD COUNTY, SOUTH CAROLINA  
 PROJECT #13  
**GREENWOOD PARKS - PHASE ONE**

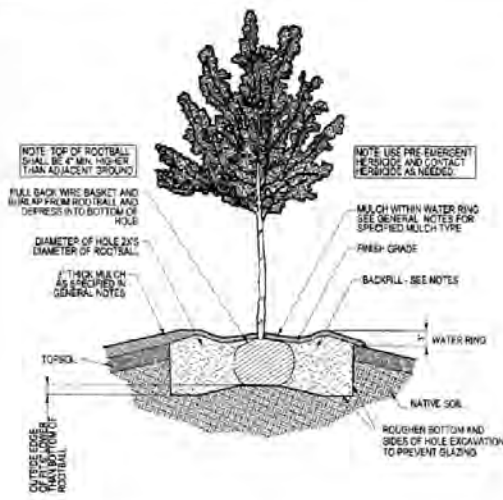
FOUNDRY PARK LANDSCAPE PLAN

NO.	DATE	BY	CHKD.	APP.
1	6-16-19	DV	RRH	BFR

PROJECT DATUM INFORMATION:  
 HORIZONTAL DATUM: SC83F  
 VERTICAL DATUM: NAVD83

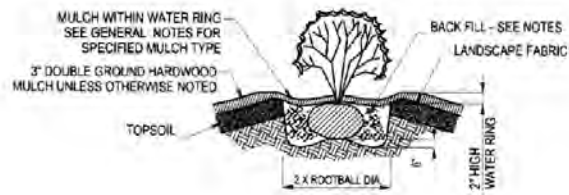
SCALE: 1" = 20'

811  
 Know what's below.  
 Call before you dig.



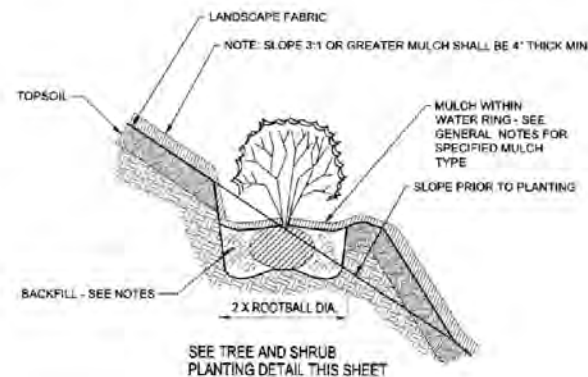
1 TREE PLANTING DETAIL

NTS



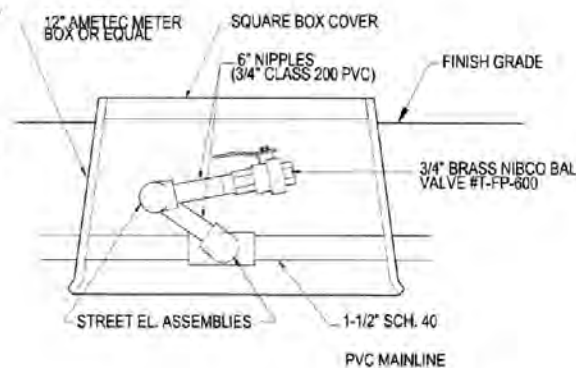
2 SHRUB PLANTING DETAIL

NTS



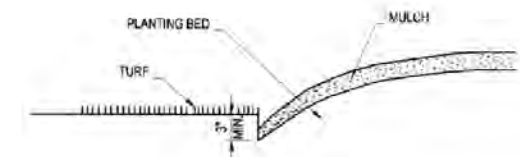
3 (TREES & SHRUBS) SLOPE PLANTING DETAIL

NTS



4 HOSE BIB DETAIL

NTS  
1/2" - 1'-0"



5 CONTOUR EDGE BED

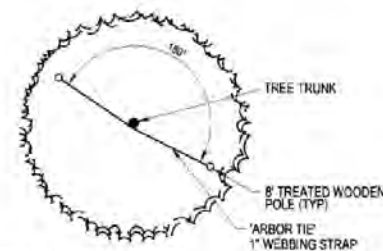
NTS

GENERAL PLANTING NOTES  
- SEE SPECIFICATIONS

- 1. PLANTER PIT BACKFILL MIX FOR ALL TREES AND SHRUBS SHALL BE
  - A. 1 PART TOPSOIL
  - B. 1 PART SOIL FROM HOLE
  - C. SEE DETAIL THIS SHEET
- 2. PLANTING BED PREPARATION
  - A. AFTER MASS GRADING USE TOPSOIL FOR USE IN PLANTING BEDS FROM STOCKPILE TOPSOIL FROM SITE, FREE OF WEEDS AND DEBRIS. CONTRACTOR SHALL APPLY ROUNDOUP TO ENSURE THAT TOPSOIL IS FREE OF ALL NOXIOUS WEEDS.
- 3. MULCH WITH DBL GROUND HARDWOOD MULCH 3" THICK MIN. SUBMIT SAMPLE TO OWNER FOR APPROVAL.
- 4. FINAL GRADES FOR GRASSED AND LANDSCAPED AREAS SHALL REQUIRE A MINIMUM OF 4" OF CLEAN TOPSOIL FREE OF DEBRIS, CONTAMINANTS AND PREFERABLY OF NATIVE ORIGIN. TOPSOIL FROM SITE SHALL BE USED FOR SOO AND SEED AREAS.
- 5. ALL TREES PLANTED IN CONTAMINATED SOIL NEED TO BE BACKFILLED WITH CERTIFIED CLEAN FILL.
- 6. SOIL AMENDMENTS, VITAMINS AND HORMONES
  - A. APPLY BRUNNING GYPSUM CLAY BREAKER OR EQUAL TO ALL PROPOSED TREE, SHRUB AND GROUND COVER PLANTING HOLES PER MANUFACTURERS' RECOMMENDATIONS.
  - B. APPLY SUPERTHRIVE VITAMINS AND HORMONES TO ALL TREES, SHRUBS AND GROUND COVERS PER MANUFACTURERS' RECOMMENDATIONS. [www.superthrive.com](http://www.superthrive.com) (800) 441-VITA-NO SUBSTITUTIONS.
- 7. CONTRACTOR SHALL PROVIDE ALL MATERIAL AND LABOR TO PERFORM THE SCOPE OF WORK DESCRIBED IN THE NOTES, DETAILS, AND PLANS UNLESS OTHERWISE INDICATED.
- 8. THE CONTRACTOR IS TO PROTECT ALL EXISTING STRUCTURES AND TREES INCLUDING BUT NOT LIMITED TO BUILDINGS, CONCRETE CURB, CONCRETE WALKS, RETAINING WALLS AND TREES, UNDER GROUND UTILITIES WHICH ARE CLEARLY MARKED. THE CONTRACTOR IS RESPONSIBLE FOR HAVING UTILITIES MARKED BY PALMETTO UTILITY LOCATING SERVICE (1-800-922-0993) SUPPLY THEM WITH THE FOLLOWING INFORMATION: ADDRESS INSIDE CITY LIMITS, OWNERS' NAME, COMPLETION DATE, CONTRACTORS' NAME, CONTACT PERSON, CONTACT PERSON TELEPHONE NUMBER.

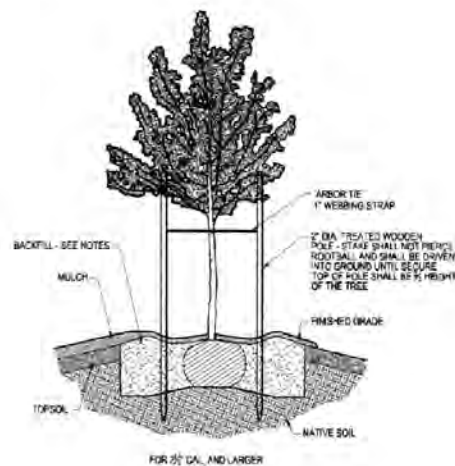
NOTE:

CONTRACTOR TO PROVIDE PROTOTYPICAL PLANTING OF AT LEAST 1 TREE, 1 SHRUB AND 1 GROUND COVER FOR REVIEW AND ACCEPTANCE BY LANDSCAPE ARCHITECT PRIOR TO MASS PLANTING



6 TREE STAKING DETAIL

NTS

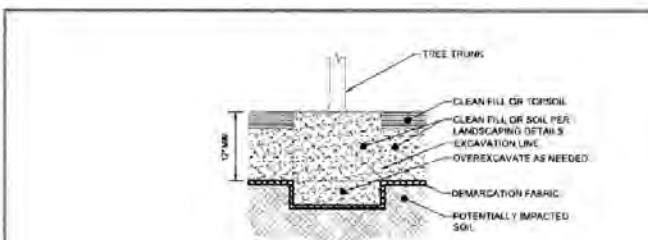


7 TREE STAKING DETAIL SECTION

NTS

SEEDING NOTES - SEEDING SCHEDULE ALSO PROVIDED ON CIVIL SHEET C500

- 1. EXTENT OF WORK - PROVIDE SOIL ESTABLISHMENT OF FINISH GRADE, PREPARATION, FERTILIZING AND SEEDING OF ALL NEWLY GRADED FINISHED EARTH SURFACES, UNLESS INDICATED OTHERWISE AND AT ALL AREAS INSIDE OR OUTSIDE THE LIMITS OF CONSTRUCTION THAT ARE DISTURBED BY THE CONTRACTOR'S OPERATIONS.
- 2. TURF ESTABLISHMENT PERIOD - THE ESTABLISHMENT PERIOD FOR TURF SHALL BEGIN IMMEDIATELY AFTER INSTALLATION, WITH THE APPROVAL OF THE ENGINEER, AND CONTINUE UNTIL THE DATE THAT THE OWNER ACCEPTS THE PROJECT OR PHASE FOR BENEFICIAL USE AND OCCUPANCY AND A STAND OF GRASS IS ACHIEVED. DURING THE TURF ESTABLISHMENT PERIOD THE CONTRACTOR SHALL:
  - A. WATER THE TURF TO MAINTAIN AN ADEQUATE SUPPLY OF MOISTURE WITHIN ROOT ZONE. AN ADEQUATE SUPPLY OF MOISTURE IS THE EQUIVALENT OF 1 INCH OF ABSORBED WATER PER WEEK EITHER THROUGH NATURAL RAINFALL OR AUGMENTED BY PERIODIC WATERING. APPLY WATER AT A MODERATE RATE SO AS NOT TO FLOOD THE TURF.
  - B. PROVIDE THE FOLLOWING TURF ESTABLISHMENT:
    - 1. ERADICATE ALL WEEDS. WATER, FERTILIZE, OVERSEED, AND PERFORM ANY OTHER OPERATION.
    - 2. NECESSARY TO PROMOTE THE GROWTH OF GRASS.
    - 3. RESEED OR RE-SOO AREAS VOID OF TURF ONE SQUARE FOOT AND LARGER IN AREA.
    - 4. MOW THE NEW LAWN AT LEAST THREE TIMES PRIOR TO THE FINAL INSPECTION. BEGIN MOWING WHEN GRASS IS 4 INCHES HIGH. MOW TO A 2 1/2 INCH HEIGHT.
- 3. FOR PERMANENT GRASS SEEDING RATES AND SEED MIXTURE, SEE SHEET C500.
- 4. WOOD CELLULOSE FIBER MULCH - USE RECOVERED MATERIALS OF EITHER PAPER-BASED (100 PERCENT) OR WOOD-BASED (100 PERCENT) HYDRAULIC MULCH. PROCESSED TO CONTAIN NO GROWTH OR GERMINATION-INHIBITING FACTORS AND DYED AN APPROPRIATE COLOR TO FACILITATE VISUAL METERING OF MATERIALS APPLICATION. COMPOSITION ON AIR-DRY WEIGHT BASIS: 8 TO 15 PERCENT MOISTURE. pH RANGE FROM 3.5 TO 5.0. USE WITH HYDRAULIC APPLICATION OF GRASS SEED AND FERTILIZER. FIRST, MIX WATER AND FIBER. FIBER SHALL BE ADDED AT 1,000 POUNDS DRY WEIGHT, PER ACRE. THEN ADD FERTILIZER TO PRODUCE A HOMOGENEOUS SLURRY. WHEN HYDRAULICALLY SPRAYED ON THE GROUND, MATERIAL SHALL FORM A BLOTTER LIKE COVER IMPREGNATED UNIFORMLY WITH GRASS SEED. APPLY SEEDED SLURRY EVENLY IN TWO INTERSECTION DIRECTIONS TO ACHIEVE A MINIMUM 60% COVERAGE.
- 5. SOIL ANALYSIS - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE A SOIL ANALYSIS PERFORMED BY THE COUNTY EXTENSION SERVICE OR SOME OTHER APPROVED LABORATORY FOR A SOIL ANALYSIS REPORT. THE CONTRACTOR SHALL THEN PROVIDE THE RECOMMENDATIONS OF THE REPORT TO THE ENGINEER FOR WRITTEN APPROVAL. RECOMMENDATIONS SHALL ENSURE THAT SOIL pH IS WITHIN 5 - 7 PRIOR TO SEEDING AND SHALL INCLUDE RATES FOR LIME AND FERTILIZER.



8 EXPOSURE BARRIER - DEEP ROOT PLANTINGS

SCALE: NTS

- 6. SOIL PREPARATION - PRIOR TO MASS GRADING REMOVE EXISTING TOPSOIL TO A MINIMUM DEPTH OF 2" AND STOCKPILE. IF AREAS TO BE GRADED ARE COVERED WITH GRAVEL, COMPLETELY REMOVE GRAVEL AND DISPOSE OF OFF SITE IN A MANNER THAT COMPLES WITH ALL LOCAL, STATE AND FEDERAL LAWS. AFTER AREAS HAVE BEEN BROUGHT TO FINISH SUBGRADE ELEVATION, THOROUGHLY TILL TO MINIMUM DEPTH OF 4 INCHES BY SCARIFYING, DISKING OR HARROWING REMOVE DEBRIS AND STONES LARGER THAN ONE INCH IN ANY DIMENSION REMAINING ON SURFACE AFTER TILLAGE. SPREAD STOCKPILED OR HAULED IN TOPSOIL EVENLY TO A MIN. DEPTH OF 4" TO PROVIDE POSITIVE DRAINAGE. DO NOT SPREAD TOPSOIL WHEN FROZEN OR EXCESSIVELY WET OR DRY. CORRECT IRREGULARITIES IN FINISHED SURFACES TO ELIMINATE DEPRESSIONS. PROTECT FINISHED PREPARED SOIL AREAS FROM DAMAGE BY VEHICULAR OR PEDESTRIAN TRAFFIC.
- 7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SUPPLY WATER TO ALL TURF UNTIL FINAL ACCEPTANCE BY THE OWNER. THE OWNER IS RESPONSIBLE FOR IRRIGATING TURF AFTER FINAL ACCEPTANCE IF HE CHOOSES. THE CONTRACTOR SHALL WARRANTY ALL TURF FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE AND SHALL GUARANTEE A STAND OF PERMANENT GRASS PER SCDHEC NPDES PERMIT REQUIREMENTS AND SHALL BE RELIEVED OF THIS RESPONSIBILITY ONCE THE PROJECT HAS BEEN ACCEPTED AND AFTER THE OWNER HAS FILED A NOTICE OF TERMINATION OR ACCEPTED BY THE OWNER, WHICHEVER OCCURS FIRST.

PROJECT: 03/14/2010  
 DRAWING NO: 03/14/2010  
 PROJECT: 03/14/2010  
 DRAWING NO: 03/14/2010  
 PROJECT: 03/14/2010  
 DRAWING NO: 03/14/2010  
 PROJECT: 03/14/2010  
 DRAWING NO: 03/14/2010

**DAVIS & FLOYD**
  
 SINCE 1954
   
 WWW.DAVISANDFLOYD.COM
   
 1115 HIGHWAY 7022 EAST
   
 GREENWOOD, SOUTH CAROLINA 29649
   
 (803) 225-6311

PROJECT # 17
   
 CITY OF GREENWOOD &
   
 GREENWOOD COUNTY
   
 GREENWOOD COUNTY, SOUTH CAROLINA
   
 GREENWOOD PARKS - PHASE ONE

LANDSCAPE NOTE AND DETAILS

NO.	DATE	REVISION



Re: 04785

Mark Keller <mkeller131@comcast.net>

Mon 1/10/2022 4:46 PM

To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>

\*\*\* Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. \*\*\*

Here are the results from the gauging event:

TW-1: 11.26

TW-2: 8.51

TW-3: 7.53

TW-4: 8.41

TW-5: 7.89

TW-6: 8.99

TW-7: 8.43

TW-8: 8.10

MW-13: FP (9.27 - 9.56)

MW-14: FP (9.05 - 9.24)

MW-16: 7.84

Mark L. Keller, PG

President

KLM Environmental, LLC

PO Box 2704

Goose Creek, SC 29445

Phone: 843-870-4285

Fax: 843-797-1893

Office: 843-797-7884

On Jan 10, 2022, at 3:54 PM, Reilly, Caitlin M. <reillycm@dhec.sc.gov> wrote:

Hey Mark,

Thank you for the update! Is there anyway you can send me an updated table or reply back with a list of the gauging data? We have a meeting with Greenwood City in the morning and I'm trying to provide them with as much information as I can.

Thank you!

Caitlin

**Caitlin Reilly**

Hydrogeologist

Assessment & Non-Permitted Petroleum Section

Underground Storage Tank Division

**S.C. Dept. of Health & Environmental Control**

Office: (803) 898-3807

Fax: (803) 898-0673

Connect: [www.scdhec.gov](http://www.scdhec.gov) [Facebook](#) [Twitter](#)



---

**From:** Mark Keller <mkeller131@comcast.net>

**Sent:** Monday, January 10, 2022 3:38 PM

**To:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>

**Subject:** 04785

\*\*\* Caution: This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. \*\*\*

Caitlin

The temp wells were gauged today. No free product was detected in any of them. Product in MW-14 at 0.19 feet and 0.29 feet in MW-13.

Mark

Mark L. Keller, PG

President

KLM Environmental, LLC

PO Box 2704

Goose Creek, SC, 29445

Phone: 843-870-4285

Fax: 843-797-1893

Office: 843-797-7884

Re: UST # 04785

Reilly, Caitlin M. <reillycm@dhec.sc.gov>

Mon 1/10/2022 4:00 PM

To: mkeller131@comcast.net <mkeller131@comcast.net>

Hey Mark,

I think we were confused! After reading your email and looking at the maps we thought those were going to be sampled and ran through your lab today, I'm sorry about that! We have a meeting with Greenwood City tomorrow morning and I believe Ryan wanted to reach out to them to see if we could get a more detailed map that shows what the site plans are. I looked over the map from Angela and it still doesn't show where they are planning to install sidewalks or structures. I will reach out to him and Ashleigh in the morning to see if they are still planning on doing that or if we are just going to have to work with what we have now.

Thanks,  
Caitlin

**Caitlin Reilly**  
Hydrogeologist  
Assessment & Non-Permitted Petroleum Section  
Underground Storage Tank Division  
**S.C. Dept. of Health & Environmental Control**  
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**From:** Mark Keller <mkeller131@comcast.net>  
**Sent:** Friday, January 7, 2022 4:47 PM  
**To:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>  
**Subject:** Re: UST # 04785

\*\*\* Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. \*\*\*

Those are only there to show we installed them. We are using the temporary wells to delineate free product only. There will be no additional data beyond free product delineation.

Mark L Keller, PG  
President  
KLM Environmental, LLC  
PO Box 2704  
Goose Creek, SC, 29445  
Phone: 843-870-4285  
Fax: 843-797-1893



On Jan 7, 2022, at 2:49 PM, Reilly, Caitlin M. <reillycm@dhec.sc.gov> wrote:

When I was talking to Read he mentioned he would like to see what the temporary wells data shows because it was blank on the spreadsheet. As for the pond, we were thinking it might be good to have a well on either end (towards MW-14 and one across from it towards the 'wetlands') but that was before I was able to get a copy of the updated map. He's out today so I wasn't able to look at with him yet.

Thanks,  
Caitlin

**Caitlin Reilly**  
Hydrogeologist  
Assessment & Non-Permitted Petroleum Section  
Underground Storage Tank Division  
**S.C. Dept. of Health & Environmental Control**  
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---

**From:** Mark Keller <mkeller131@comcast.net>  
**Sent:** Friday, January 7, 2022 2:28 PM  
**To:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>  
**Subject:** Re: UST # 04785

\*\*\* Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. \*\*\*

What new data are you referring to? That was all of the probing data we have.

Thanks

Mark

Mark L Keller, PG  
President  
KLM Environmental, LLC  
PO Box 2704  
Goose Creek, SC 29445  
Phone: 843-870-4285  
Fax: 843-797-1893

On Jan 7, 2022, at 2:25 PM, Reilly, Caitlin M. <reillycm@dhec.sc.gov> wrote:

Hey Mark,

Thank you for the preliminary data! Read and I were able to look at it briefly yesterday. While we are waiting on the rest of the data, I was able to get an updated copy of VCC plans from Angela, I've attached it for you. So once the new data comes in we can compare it to their map to see what the options are. There is always the chance they could change the plans but at least this will give us somewhere to start. I can always set up a call to discuss the well locations if you would like, just let me know!

Thanks,  
Caitlin

**Caitlin Reilly**  
Hydrogeologist  
Assessment & Non-Permitted Petroleum Section  
Underground Storage Tank Division  
**S.C. Dept. of Health & Environmental Control**  
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---

**From:** Mark Lee Keller <mkeller131@comcast.net>  
**Sent:** Monday, January 3, 2022 5:13 PM  
**To:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>  
**Subject:** UST # 04785

\*\*\* Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. \*\*\*

Caitlin,

Attached are two maps for Quick Pantry # 19. Figure 2A is the pond area probing map. It shows the locations and results from our field GC. We probed around the pond and the broken top drainage basin. We did have to clear all this area before we could do any work. You have seen how overgrown it is here, well not anymore, see attached photograph. The second figure, Figure 2B, shows the locations of 10 temporary wells we installed on site near MW=-14. We are planning on gauging those wells on January 10<sup>th</sup> provided the weather cooperates. That should be sufficient time to allow the wells to accumulate free product if they are going to so we can hopefully delineate the extent on that front. If successful, we will abandon those wells on January

24<sup>th</sup>. Please let me know where you think we should install any wells out here. I am certain they will eventually be destroyed by the development but who knows when that may actually happen. The data table is also attached separately for your review. We took samples from the drain and the pond and ran them in the lab while we waited for water on some holes. Very hard getting water as you can see in my descriptions at the bottom of the table.

Thanks!!

Mark

Mark L. Keller, PG  
President



**KLM Environmental, LLC**

PO Box 2704

Goose Creek, SC 29445

843-870-4285 Cell



Re: Greenwood

Reilly, Caitlin M. <reillycm@dhec.sc.gov>

Tue 1/11/2022 9:23 AM

To: Ariail, Ryan D. <AriailRD@dhec.sc.gov>

📎 5 attachments (11 MB)

04785 - AA Gauge Data.pdf; AA Map update 1 10 22.pdf; AA Map\_pond update 1 10 22.pdf; AA Prelim Data 1 10 22.pdf; VCC\_Foundry Civil and Landscape Plans.pdf

Good morning!

I shared my folder with you but here is the new data Mark sent me last week. I reached out to Angela and got a copy of the VCC map but not the CAD file, I've attached a copy of that as well. I sent it over to Mark on Friday.

Thanks,  
Caitlin

**Caitlin Reilly**  
Hydrogeologist  
Assessment & Non-Permitted Petroleum Section  
Underground Storage Tank Division  
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---

**From:** Ariail, Ryan D. <AriailRD@dhec.sc.gov>  
**Sent:** Tuesday, January 11, 2022 9:16 AM  
**To:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>  
**Subject:** Greenwood

Good morning Caitlin.

Can you share with me the additional assessment data from Greenwood property. Also was Mark Keller provided the CAD drawing for the park to overlay screening points?

Thanks

Ryan

Sent from my iPhone

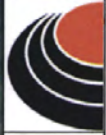






FIGURE 2B

FREE PRODUCT TEMPORARY WELLS  
 QUICK PANTRY # 19  
 GREENWOOD, SC UST # 04785



**KLM Environmental, LLC**  
 Phase I: Underground Storage Tanks, Soil & Water Sampling Well Installation



**TABLE 1**  
**Probe Delineation Data**  
**Quick Pantry # 19**  
**Greenwood, SC**

Sample ID	Date	Matrix	Depth	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MTBE (ppb)	Comments
RBSL	--	GW	--	5	1000	700	10000	40	
GP-1**	12/13/21	GW	10	**	**	**	**	**	
GP-1A	12/14/21	GW	15	***	***	***	***	***	
GP-1B	12/14/21	GW	20	--	--	--	--	--	NTA
GP-2	12/13/21	GW	10	--	--	--	--	--	NTA
GP-3**	12/13/21	GW	10	**	**	**	**	**	
GP-3A	12/14/21	GW	15	--	--	--	--	--	NTA
GP-4**	12/13/21	GW	10	--	--	--	--	--	NTA
GP-5**	12/13/21	GW	10	**	**	**	**	**	
GP-5A	12/14/21	GW	15	***	***	***	***	***	
GP-5B	12/14/21	GW	20	--	--	--	--	--	NTA
GP-6	12/14/21	GW	15	1.92	--	48.60	30.69	84.68	NTA
GP-7	12/14/21	GW	15	--	--	25.61	13.15	--	NTA
GP-8	12/14/21	GW	15	--	--	15.44	3.31	--	NTA
GP-9	12/14/21	GW	18	--	--	52.68	36.67	--	refusal
GP-10	12/14/21	GW	15	--	--	--	1.60	--	NTA
GP-11	12/14/21	GW	15	--	--	--	3.09	--	NTA
GP-12	12/14/21	GW	15	--	--	32.26	20.86	42.94	NTA
GP-13	12/14/21	GW	15	--	--	--	1.23	8.09	NTA
GP-14	12/14/21	GW	20	--	--	47.95	32.16	--	NTA
GP-15	12/14/21	GW	20	--	--	--	1.65	--	NTA
GP-16	12/14/21	GW	15	--	--	--	--	--	NTA
GP-17	12/14/21	GW	15	--	--	--	1.76	--	NTA
GP-18	12/14/21	GW	20	--	--	43.83	31.95	--	NTA
GP-19D	12/14/21	GW	25	--	--	--	--	--	NTA
GP-20D	12/14/21	GW	30	--	--	18.66	43.67	--	NTA
GP-21D	12/14/21	GW	20	--	--	--	--	15.14	NTA
G-22D	12/14/21	GW	25	--	--	--	1.30	--	refusal
Drain	12/14/21	SW	--	--	--	--	--	--	NTA
Pond	12/14/21	SW	--	--	--	--	--	--	
TW-1A	12/13/21	GW	11	*	*	*	*	*	Concrete
TW-1B	12/13/21	GW	11	*	*	*	*	*	Concrete
TW-1C	12/13/21	GW	15						
TW-2	12/13/21	GW	15						
TW-3	12/13/21	GW	15						
TW-4	12/13/21	GW	15						
TW-5	12/13/21	GW	15						
TW-6	12/13/21	GW	15						
TW-7	12/13/21	GW	15						
TW-8	12/13/21	GW	15						

\*Refusal due to concrete strike at 11 feet. Changed locations on each attempt.

NTA = Non Target Analyte

\*\* No water in these sample locations after 1.5 hours. Left the site to allow samplers to sit overnight. After 17.5 hours only GP-4 had water. It was closest to the pond. Probe depth increased to 15 feet (screened 11-15). GP-1A and GP-5A were allowed to sit for 7 hours and no water was present. Drilled again to 20 feet at end of day 12/14/21. Water was recovered and the samples analyzed.

GP-4 = contaminant peaks visible but below effective levels. NTA also present.

## Additional Assessment Screening Data - Foundry Park Property

Ariail, Ryan D. <AriailRD@dhec.sc.gov>

Thu 1/13/2022 9:00 AM

To: Julie Wilkie <julie.wilkie@gwdcity.com>

Cc: Reilly, Caitlin M. <reillycm@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>; Gorman, Angela <gormanak@dhec.sc.gov>; Ryan Thomas <ryan.thomas@gwdcity.com>

Good morning, Julie.

I hope this email finds you and your staff doing well this new year. I want to follow up and let you know that Mark Keller with KLM Environmental indicated he will have the groundwater screening data from the temporary wells around MW-14 to Caitlin by January 25th. If you have any questions, please don't hesitate to contact me.

Thanks

Ryan

---

Ryan D. Ariail  
UST Customer Service Representative  
Underground Storage Tank Management Division  
**S.C. Dept. of Health & Environmental Control**  
Office: (803) 898-9418  
Cell: (803) 608-0418  
ariailrd@dhec.sc.gov  
Connect: [www.scdhec.gov](http://www.scdhec.gov) [Facebook](#) [Twitter](#)



*"It's a great day in South Carolina!"*



"Effective May 26, 2017, there were changes to the SC UST Regulations, which may affect you. Please go to <https://www.scdhec.gov/environment/land-management/underground-storage-tanks> for more information.

## UST# 04785 - Greenwood Weekly Update

Reilly, Caitlin M. <reillycm@dhec.sc.gov>

Thu 1/13/2022 8:54 AM

To: Mehta, Mihir <mehtam@dhec.sc.gov>

Cc: Thrash, Ashleigh <thrasham@dhec.sc.gov>

UST #04785 - Quick Pantry 19

Address: 1802 South Main Street, Greenwood SC 29646

County: Greenwood

Release #1 Date: March 3, 2021

Release #2 Date: September 28, 2021

RBCA Rankings: 1D

Responsible Party: Bahuchar Mata LLC

Consultant: KLM Environmental LLC

This week KLM Environmental is conducting an AFVR event on site and gauging the temporary wells on the adjacent VCC property. Once this data is in a meeting with Greenwood City can be scheduled to discuss the permanent well locations. A NOAV has been sent to both the tank owner and the supplier but at this time only the tank owner has signed the CO. A pre-order is being drafted at this time.

Thanks,  
Caitlin

### **Caitlin Reilly**

Hydrogeologist

Assessment & Non-Permitted Petroleum Section

Underground Storage Tank Division

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Re: UST # 04785 Unknown Substance Observations

Thrash, Ashleigh <thrasham@dhec.sc.gov>

Tue 1/18/2022 10:34 AM

To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>

Cc: Miner, Read <minerrs@dhec.sc.gov>

there is still some residue on the booms, etc however.

Ashleigh

---

**Ashleigh Thrash, P.G.**

Section Manager, Assessment & Non-Permitted Petroleum

**S.C. Dept. of Health & Environmental Control**

Office: (803) 898-0607

Cell: (803) 608-1765

Connect: [www.scdhec.gov](http://www.scdhec.gov) [Facebook](#) [Twitter](#)



---

**From:** Thrash, Ashleigh <thrasham@dhec.sc.gov>

**Sent:** Tuesday, January 18, 2022 10:28 AM

**To:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>

**Cc:** Miner, Read <minerrs@dhec.sc.gov>

**Subject:** Re: UST # 04785 Unknown Substance Observations

no he did not 😊

Ashleigh

---

**Ashleigh Thrash, P.G.**

Section Manager, Assessment & Non-Permitted Petroleum

**S.C. Dept. of Health & Environmental Control**

Office: (803) 898-0607

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---

**From:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>

**Sent:** Tuesday, January 18, 2022 10:26 AM

**To:** Thrash, Ashleigh <thrasham@dhec.sc.gov>

**Cc:** Miner, Read <minerrs@dhec.sc.gov>

**Subject:** Fw: UST # 04785 Unknown Substance Observations

Hey Ashleigh,

I replied back to Mark with a thank you and he sent me this. He says there is no black stuff there anymore, did he mention anything about removing it when you last spoke to him?

**Caitlin Reilly**  
Hydrogeologist  
Assessment & Non-Permitted Petroleum Section  
Underground Storage Tank Division  
**S.C. Dept. of Health & Environmental Control**  
Office: (803) 898-3807  
Fax: (803) 898-0673  
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---

**From:** Mark Keller <mkeller131@comcast.net>  
**Sent:** Tuesday, January 18, 2022 10:20 AM  
**To:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>  
**Subject:** Re: UST # 04785 Unknown Substance Observations

\*\*\* Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. \*\*\*

Caitlin

I was up there yesterday and stopped for a look. No black stuff in the excavation. Here is a photo.

Mark



Mark L. Keller, PG  
President  
KLM Environmental, LLC  
PO Box 2704  
Goose Creek, SC. 29445  
Phone: 843-870-4285  
Fax: 843-797-1893  
Office: 843-797-7884

On Jan 18, 2022, at 10:16 AM, Reilly, Caitlin M. <reillycm@dhec.sc.gov> wrote:

Good morning Mark,

This is perfect, thank you!!

-Caitlin

**Caitlin Reilly**  
Hydrogeologist  
Assessment & Non-Permitted Petroleum Section  
Underground Storage Tank Division



**S.C. Dept. of Health & Environmental Control**

Office: (803) 898-3807

Fax: (803) 898-0673

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---

**From:** Mark Lee Keller <mkeller131@comcast.net>

**Sent:** Friday, January 14, 2022 4:57 PM

**To:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>

**Cc:** Thrash, Ashleigh <thrasham@dhec.sc.gov>

**Subject:** UST # 04785 Unknown Substance Observations

\*\*\* Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. \*\*\*


Caitlin,

As requested in the phone call this morning, I am providing my observations regarding the unknown black substance seeping into the trench area located on the Smith property. The trench was originally excavated by Mr. Smith in response to reports of gasoline in the drainage system that cuts across his property. The excavation work was done prior to KLM becoming involved in the project as originally, the source of the contamination had not been determined. Later the source was determined to be from UST # 04785 after Mr. Smith was directed to conduct his own sampling on the property which indicated the contamination was flowing across his property thus emanating from another source. During the course of our investigation at the site, and the SCDHEC's own observations in the original trench area, a black substance was found to be oozing into the excavation and floating upon the water contained therein. Recently, KLM completed an expansion of the original trench to intercept the free phase product and prevent it from entering the drainage canal system. During that excavation we noted a few sparse samples of what appeared to be asphalt and a few instances of chunks of coal in the excavation. The black substance continues to migrate into the waters of the trench. The substance has been observed by KLM and SCDHEC as being a sticky consistency when in its liquid state which it appears to remain while in the water. Once the substance is removed and allowed to dry, it becomes flaky and easily broken in to small thin sheets and eventually to dust if manipulated further. This substance has not been analyzed to determine what it is made of at this time. Laboratory work was performed on site using our SRI Instruments gas chromatograph, but the instrument is calibrated for very specific compounds found in gasoline which is what we were searching for during the Tier II Assessment. Non target analytes were at times noted in the chromatograms but the exact chemical composition of those peaks is unknown as our laboratory is not set up to identify those compounds. We do not have any additional information regarding the black substance seen in the trench at this time as it was not within our scope of work to investigate its composition nor its source. These are our observations made during many weeks of assessment and remedial activities conducted at the site, but with that focus being on the gasoline contamination across the Quick Pantry, Smith, and Foundry properties.

Thanks

Mark

Mark L. Keller, PG  
President

 KLM Environmental, LLC

PO Box 2704

Goose Creek, SC 29445

843-870-4285 Cell

UST# 04785 - Greenwood Weekly Update

Reilly, Caitlin M. <reillycm@dhec.sc.gov>

Thu 1/20/2022 9:26 AM

To: Mehta, Mihir <mehtam@dhec.sc.gov>

Cc: Thrash, Ashleigh <thrasham@dhec.sc.gov>

UST #04785 - Quick Pantry 19

Address: 1802 South Main Street, Greenwood SC 29646

County: Greenwood

Release #1 Date: March 3, 2021

Release #2 Date: September 28, 2021

RBCA Rankings: 1D

Responsible Party: Bahuchar Mata LLC

Consultant: KLM Environmental LLC

Next week KLM Environmental will be on the adjacent VCC property with their mobile lab to collect more data before installing permanent monitoring wells. No work was done onsite this week. No change in compliance status or regulatory update.

Thanks,  
Caitlin

**Caitlin Reilly**

Hydrogeologist

Assessment & Non-Permitted Petroleum Section

Underground Storage Tank Division

**S.C. Dept. of Health & Environmental Control**

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Re: UST # 04669

Reilly, Caitlin M. <reillycm@dhec.sc.gov>

Thu 1/20/2022 11:30 AM

To: Vincent, Malayika M. <vincenMM@dhec.sc.gov>

Thank you!

**Caitlin Reilly**

Hydrogeologist

Assessment & Non-Permitted Petroleum Section  
Underground Storage Tank Division

**S.C. Dept. of Health & Environmental Control**

Office: (803) 898-3807

Fax: (803) 898-0673

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---

**From:** Vincent, Malayika M. <vincenMM@dhec.sc.gov>

**Sent:** Thursday, January 20, 2022 11:07 AM

**To:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>

**Subject:** Fwd: UST # 04669

Figured I should pass this on if you need it! Info about Monday!!

**Malayika Vincent**

Environmental Health Manager II

Corrective Action & Quality Assurance

Underground Storage Tank Division

Bureau of Land and Waste Management

**S.C. Dept. of Health & Environmental Control**

Office: (803) 898-0634

Mobile: (803) 922-6026

Connect: [www.scdhec.gov](http://www.scdhec.gov) [Facebook](#) [Twitter](#)



---

**From:** Mark Keller <mkeller131@comcast.net>

**Sent:** Wednesday, January 19, 2022 11:47:27 AM

**To:** Vincent, Malayika M. <vincenMM@dhec.sc.gov>

**Subject:** Re: UST # 04669

\*\*\* Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. \*\*\*

Malayika

We don't have a lab event scheduled for next week on Tuesday. Next week we are closing the tank at Quick Pantry 19 on Monday, we will collect samples from the 10 temporary wells we installed to delineate free product at Ashley's request to get some more data, then abandon those wells. The samples we collect will be put on ice to run when we get back to the shop. We have to go the next day to Quick Way 8 (UST 04671) and abandon 3 tanks on that site, also in Greenwood, and collect samples with the probe as that is a closure in place site. It's also in Greenwood so we are staying overnight. I also am picking up our vacuum truck from the weekend event we have been forced to perform in Abbeville so we don't have enough people to drive enough trucks to bring our lab out and all the other stuff we have and get it all back home. I hope that clears up the schedule! Sorry for the confusion. Let me know if there are any questions on that.

Thanks!!

Mark

Mark L Keller, PG  
President  
KLM Environmental, LLC  
PO Box 2704  
Goose Creek, SC, 29445  
Phone: 843-870-4285  
Fax: 843-797-1893  
Office: 843-797-7884

On Jan 19, 2022, at 11:27 AM, Vincent, Malayika M <vincenMM@dhec.sc.gov> wrote:

Hey Mark,

I think Read is going to manage the more complex specific sites for now! Caitlin told me about the black goo. I'm sure she's told you but we're planning to come out on-site next Tuesday to see your new mobile lab! We're planning to be there about 10/1030, is that okay?

Ireland is a recent graduate from West Virginia University and is currently working through training. We'll bring her out on our audits in the coming months so hopefully you'll get to put a face to her name!

Malayika

**Malayika Vincent**  
Environmental Health Manager II  
Corrective Action & Quality Assurance  
Underground Storage Tank Division  
Bureau of Land and Waste Management

**S.C. Dept. of Health & Environmental Control**

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Mobile: (803) 922-6026

Fax: (803) 898-0673

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---

**From:** Mark Lee Keller <mkeller131@comcast.net>  
**Sent:** Wednesday, January 19, 2022 11:22  
**To:** Vincent, Malayika M. <vincenMM@dhec.sc.gov>  
**Subject:** RE: UST # 04669

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Malayika,

How Read gonna dump me and pass off this wonderful site !!! 😊

Thanks for the heads up. Ireland Hawk is a cool name! Is Ireland a man or a lady? Just so I know how to address my formal emails.

Thanks!!

Mark

Mark L. Keller, PG  
President

**KLM Environmental, LLC**

PO Box 2704

Goose Creek, SC 29445

843-870-4285 Cell

**From:** Vincent, Malayika M. <vincenMM@dhec.sc.gov>  
**Sent:** Tuesday, January 18, 2022 11:19 AM  
**To:** mkeller131@comcast.net  
**Cc:** Hawk, Ireland J. <HawkI@dhec.sc.gov>  
**Subject:** Re: UST # 04669

Good morning Mark,

Ireland Hawk (cc'd) is the new UST PM for Greenwood County in Corrective Action& Field Support!

Malayika

**Malayika Vincent**



Environmental Health Manager II  
Corrective Action & Quality Assurance  
Underground Storage Tank Division  
Bureau of Land and Waste Management  
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Fax: (803) 898-0673  
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---

**From:** Mark Lee Keller <[mkeller131@comcast.net](mailto:mkeller131@comcast.net)>  
**Sent:** Friday, January 14, 2022 17:31  
**To:** Love, Meredith K. <[lovemk@dhec.sc.gov](mailto:lovemk@dhec.sc.gov)>; Vincent, Malayika M. <[vincenMM@dhec.sc.gov](mailto:vincenMM@dhec.sc.gov)>  
**Subject:** UST # 04669

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Meredith and Malayika,

We have the 96 hour AFVR for this site beginning on Monday January 17<sup>th</sup> and ending the 21<sup>st</sup>.

Thanks!

Mark

Mark L. Keller, PG  
President

 **KLM Environmental, LLC**

PO Box 2704  
Goose Creek, SC 29445  
843-870-4285 Cell

UST# 04785 - Quick Pantry 19

Reilly, Caitlin M. <reillycm@dhec.sc.gov>

Mon 1/24/2022 8:50 AM

To: Risa, Jr., P. Alan <risap2@dhec.sc.gov>; O'Quinn, Gregory <OQUINNGN@dhec.sc.gov>

Cc: Grunzel, Greg <GRUNZEGD@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>

Good morning,

I wanted to give you a heads up that I will be conducting another site visit today at UST# 04785 - Quick Pantry 19. During this visit we will be observing a UST tank closure and observing the work that has been done to this site and surrounding properties. Please let me know if you have any questions or concerns.

UST# 04785  
Quick Pantry 19  
1802 S Main Street  
Greenwood, SC 29646

Thanks,  
Caitlin

**Caitlin Reilly**  
Hydrogeologist  
Assessment & Non-Permitted Petroleum Section  
Underground Storage Tank Division  
**S.C. Dept. of Health & Environmental Control**  
Office: (803) 898-3807  
Fax: (803) 898-0673  
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Re: Greenwood - Smith Property

Ratigan, Karen C. <ratigakc@dhec.sc.gov>

Tue 1/25/2022 3:18 PM

To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>

Set up a date/time that works for y'all and I should be able to figure out a way to make it work.

**Karen C. Ratigan**

Assistant General Counsel

**S.C. Dept. of Health & Environmental Control**

2600 Bull Street

Columbia, South Carolina 29201

Office: (803) 898-1950

Fax: (803) 898-3367

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---

**From:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>

**Sent:** Tuesday, January 25, 2022 3:03 PM

**To:** Ariail, Ryan D. <AriailRD@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>; Ratigan, Karen C. <ratigakc@dhec.sc.gov>

**Subject:** Re: Greenwood - Smith Property

I good with that week, the only thing I have on my schedule for that week is our meeting with the City and the bi-weekly update meeting. So whatever time works for ya'll works for me.

Thanks,

Caitlin

**Caitlin Reilly**

Hydrogeologist

Assessment & Non-Permitted Petroleum Section

Underground Storage Tank Division

**S.C. Dept. of Health & Environmental Control**

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---

**From:** Ariail, Ryan D. <AriailRD@dhec.sc.gov>

**Sent:** Tuesday, January 25, 2022 2:58 PM

**To:** Thrash, Ashleigh <thrasham@dhec.sc.gov>; Reilly, Caitlin M. <reillycm@dhec.sc.gov>; Ratigan, Karen C. <ratigakc@dhec.sc.gov>

**Subject:** Greenwood - Smith Property

Good afternoon.

I've been contacted by Mr. Smith's attorney requesting a meeting soon. I'm not sure of everyone's schedule this week, but possibly looking at the second week of February. Please let me know what works for everyone as soon as possible.

Thanks

Ryan

Sent from my iPhone

Re: Assessment Update

Ariail, Ryan D. <AriailRD@dhec.sc.gov>

Tue 1/25/2022 2:55 PM

To: Thomas Hite III <t3@hiteandstone.com>

Cc: Karen Ashley <karenashley.hiteandstone@gmail.com>; ronneysmith58@yahoo.com <ronneysmith58@yahoo.com>; Thrash, Ashleigh <thrasham@dhec.sc.gov>; Reilly, Caitlin M. <reillycm@dhec.sc.gov>

10-4. I should have you something soon.

Ryan

Sent from my iPhone

On Jan 25, 2022, at 2:26 PM, Thomas Hite III <t3@hiteandstone.com> wrote:

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That's fine. I am going to be out of the office next week so the week after next would be ideal for me.

On Tue, Jan 25, 2022 at 2:25 PM Ariail, Ryan D. <AriailRD@dhec.sc.gov> wrote:

Good afternoon, Tombo.

Happy New Year! Let me get with others on our end and I can send you some available dates and times. Let me know if that does not work for you.

Thanks

Ryan

Sent from my iPhone

On Jan 25, 2022, at 2:22 PM, Thomas Hite III <t3@hiteandstone.com> wrote:

\*\*\* Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. \*\*\*

Ryan,

Can we set up a meeting soon?

Thanks

Tombo Hite

On Thu, Dec 16, 2021 at 10:08 AM Ariail, Ryan D. <AriailRD@dhec.sc.gov> wrote:

Good morning, Mr. Smith.

I wanted to extend this offer again, but to include current activities that are taking place with regard to the release and the abatement actions on your property. Please let me know when is a good time to have a conference call with you to discuss.


Thanks

Ryan

---

Ryan D. Ariail  
UST Customer Service Representative  
Underground Storage Tank Management Division  
**S.C. Dept. of Health & Environmental Control**  
Office: (803) 898-9418  
Cell: (803) 608-0418  
[ariailrd@dhec.sc.gov](mailto:ariailrd@dhec.sc.gov)

Connect: [www.scdhec.gov](http://www.scdhec.gov) [Facebook](#) [Twitter](#)

 1469214494591\_PastedImage

*"It's a great day in South Carolina!"*

<Outlook-dhvec5e4.jpg>

**"Effective May 26, 2017, there were changes to the SC UST Regulations, which may affect you. Please go to <https://www.scdhec.gov/environment/land-management/underground-storage-tanks> for more information.**

---

**From:** Ariail, Ryan D.

**Sent:** Friday, November 12, 2021 2:54 PM

**To:** [ronneysmith58@yahoo.com](mailto:ronneysmith58@yahoo.com) <[ronneysmith58@yahoo.com](mailto:ronneysmith58@yahoo.com)>

**Cc:** [t3@hiteandstone.com](mailto:t3@hiteandstone.com) <[t3@hiteandstone.com](mailto:t3@hiteandstone.com)>; Thrash, Ashleigh <[thrasham@dhec.sc.gov](mailto:thrasham@dhec.sc.gov)>; Reilly, Caitlin M. <[reillycm@dhec.sc.gov](mailto:reillycm@dhec.sc.gov)>

**Subject:** Assessment Update

Good afternoon, Mr. Smith.

I hope this email finds you well. I wanted to see if you had any availability next week to discuss the Tier II Assessment Report for the petroleum release at Quick Pantry 19 (UST Permit 04785) and address any questions you may have with the findings of that report. If you have not been provided a copy of the report, please us know. I look forward to your response.

Thanks and have a great weekend.

Ryan



---

Ryan D. Ariail  
UST Customer Service Representative  
Underground Storage Tank Management Division  
**S.C. Dept. of Health & Environmental Control**  
Office: (803) 898-9418  
Cell: (803) 608-0418  
[ariailrd@dhec.sc.gov](mailto:ariailrd@dhec.sc.gov)  
Connect: [www.scdhec.gov](http://www.scdhec.gov) [Facebook](#) [Twitter](#)  
<Outlook-1469214494.png>

*"It's a great day in South Carolina!"*  
<Outlook-chgewrti.jpg>

**"Effective May 26, 2017, there were changes to the SC UST Regulations, which may affect you. Please go to <https://www.scdhec.gov/environment/land-management/underground-storage-tanks> for more information.**

---

Thomas E. Hite III  
P.O. Box 805  
100 East Pickens  
Abbeville, SC 29620  
Office - [864-366-5400](tel:864-366-5400)  
Fax - [864-366-2638](tel:864-366-2638)



[www.hiteandstone.com](http://www.hiteandstone.com)

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Abbeville, SC 29620  
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[www.hiteandstone.com](http://www.hiteandstone.com)

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## UST# 04785 - Greenwood Weekly Update

Reilly, Caitlin M. <reillycm@dhec.sc.gov>

Thu 1/27/2022 9:30 AM

To: Mehta, Mihir <mehtam@dhec.sc.gov>

Cc: Thrash, Ashleigh <thrasham@dhec.sc.gov>

UST #04785 - Quick Pantry 19

Address: 1802 South Main Street, Greenwood SC 29646

County: Greenwood

Release #1 Date: March 3, 2021

Release #2 Date: September 28, 2021

RBCA Rankings: 1D

Responsible Party: Bahuchar Mata LLC

Consultant: KLM Environmental LLC

This week KLM Environmental made a site visit to gather samples from and abandon the previously installed probe points on the adjacent VCC property. They also abandoned the middle tank on site by filling it in place with foam fill. We are waiting on the owner to submit the closure report and the violation will be closed. The other two USTs-the Corrosion protection system has been repaired and tested. The testing results are not correct and require some revisions. There are other compliance violations that have not been addressed. Therefore, these two USTs will remain in enforcement and under DP for now.

Thanks,  
Caitlin

**Caitlin Reilly**

Hydrogeologist

Assessment & Non-Permitted Petroleum Section

Underground Storage Tank Division

**S.C. Dept. of Health & Environmental Control**

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## 04785 Quick Pantry 19 \_ Compliance update

Cathcart, Eric F. <cathcaef@dhec.sc.gov>

Wed 1/26/2022 9:44 AM

To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>

Cc: Thrash, Ashleigh <thrasham@dhec.sc.gov>; Place, Denise <placedm@dhec.sc.gov>

As of today, the middle UST has been filled in place. We are waiting on the owner to submit the closure report and the violation will be closed. The other two USTs-the Corrosion protection system has been repaired and tested. The testing results are not correct and require some revisions. There are other compliance violations that have not been addressed. Therefore, these two USTs will remain in enforcement and under DP for now.

**Eric F. Cathcart**

Manager, Regulatory Compliance Section  
Underground Storage Tank Management Division  
**S.C. Dept. of Health & Environmental Control**  
Office: (803) 898-0633

Connect: [www.scdhec.gov](http://www.scdhec.gov) [Facebook](#) [Twitter](#)



Re: #04785

Reilly, Caitlin M. <reillycm@dhec.sc.gov>

Mon 1/31/2022 12:12 PM

To: mkeller131@comcast.net <mkeller131@comcast.net>

Hey Mark,

Thank you for the preliminary data, it will help when we meet with the city folks next week. And no problem, we were just thinking this might help when we meet with the city to discuss installing wells.

Thank you!

Caitlin

**Caitlin Reilly**

Hydrogeologist

Assessment & Non-Permitted Petroleum Section

Underground Storage Tank Division

**S.C. Dept. of Health & Environmental Control**

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---

**From:** Mark Lee Keller <mkeller131@comcast.net>

**Sent:** Friday, January 28, 2022 6:27 PM

**To:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>

**Subject:** #04785

\*\*\* Caution: This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. \*\*\*

Caitlin


Attached is the lab data from our lab on the 8 temp wells we installed to delineate free product on the foundry site. No product was detected in any of the temp wells as gauged on two separate occasions allowing approximately 6 weeks since installation to see if product would enter the wells. We ran the samples and found contaminants above RBSL in TW-3 and TW-6 which is expected.

Regarding your request to put the locations of the points onto the city's map, we have not surveyed in any of our probe locations as they are temporary and that isn't required. We would be guessing at trying to use their map and our map to place the points, and their guess is just as good as ours as far as that goes.

Thanks

Mark

Mark L. Keller, PG  
President

 KLM Environmental, LLC

PO Box 2704

Goose Creek, SC 29445

843-870-4285 Cell



## Briney, Stephanie M.

---

**From:** Briney, Stephanie M.  
**Sent:** Wednesday, March 9, 2022 4:42 PM  
**To:** mikepatel8905@yahoo.com; Mark Keller  
**Cc:** Dunn, Robert; Miner, Read; Ariail, Ryan D.  
**Subject:** UST Permit# 04785 Quick Pantry 19, 1802 S. Main St., Greenwood, SC  
**Attachments:** Final email - Documenting meeting 3-1-22.docx

Mr. Patel and Mr. Keller,

Thank you for meeting with members from the UST Management Division on March 1, 2022. Please see the attached outline and notes that document the items discussed during the meeting. If you feel that anything discussed was not reflected in this follow-up correspondence, please let DHEC know.

On March 3, 2022, staff from the UST Management Division conducted a site visit to PID the storm drain near Foundry Road. The PID readings from the storm drain on the north side of Foundry Rd was 23.4 ppm and from the south side of Foundry Rd was 31.8 ppm. MW-18 had 0.44ft of FP (DTW 4.51' and DTP 4.07'). The booms were showing some discoloring so they might be ready for replacement. With all of the rain that we have been getting lately it might be a good idea to assess the trench and make sure it is not leaking/overflowing towards the creek.

The Site-Specific work Plan (SSWP) for groundwater sampling and the plan request for free product recovery will be issued by the end of the is week. We will mail and email you copies of those requests. Let me know if you have any questions and have a good day!

Stephanie Briney, Manager  
Corrective Action & Field Support Section  
Underground Storage Tank Management Division  
Bureau of Land and Waste Management

**S.C. Dept. of Health & Environmental Control**

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Mr. Patel and Mr. Keller,

Thank you for meeting with members from the UST Management Division on March 1, 2022. Please see the outline and notes below that document the items discussed during the meeting. If you feel that anything discussed was not reflected in this follow-up correspondence, please let DHEC know.

Meeting Discussion Topics:

- Introduction/Verify Contact Information:
  - o In attendance for the meeting
    - Mihirkumar Patel – Owner/Operator Quick Pantry 19
      - [Mikepatel8905@yahoo.com](mailto:Mikepatel8905@yahoo.com); phone number 864-378-6993
    - Mark Keller – KLM Environmental
      - [Mkeller131@comcast.net](mailto:Mkeller131@comcast.net); phone number 843-870-4285
    - Stephanie Briney -SCDHEC Manager for the Corrective Action and Field Support Section
      - [brineysm@dhec.sc.gov](mailto:brineysm@dhec.sc.gov) ; phone number 803-898-0595
    - Robert Dunn – SCDHEC Project Manager for the Corrective Action and Field Support Section
      - [Dunnra@dhec.sc.gov](mailto:Dunnra@dhec.sc.gov) ; phone number 803-898-0671
    - Ryan Ariail – SCDHEC UST Customer Service Liaison
      - [ariailrd@dhec.sc.gov](mailto:ariailrd@dhec.sc.gov); phone number 803-898-9418
- Please note Read Miner, SCDHEC Project Manager, will also be working on this project but he could not attend the meeting today. His contact information is [minerrs@dhec.sc.gov](mailto:minerrs@dhec.sc.gov); phone number 803-898-0608.
- First Steps
  - o Sampling Plan – Quarterly
  - o Free Product Recovery Plan
    - Mark proposed extending the piping through the woods to access the other monitoring wells containing free product. He mentioned they got good recovery during the 4<sup>th</sup> Aggressive Fluid Vapor Recovery (AFVR) event. See the trench excavation report and the recently submit assessment report for more information on his recommendations and details on free product recovery
  - o Trench
    - DHEC asked Mark on recommendations on the trench. He mentioned the trench is working, but there is a cave in on one area of the trench that might need cleaned out. Right now there is no plan or cost proposal for maintenance of the trench or booms.
  - o SCDHEC will send a letter within the next week requesting a Sampling plan and Free Product Recovery Plan.
- Tier II Report missing items
  - o DHEC Mention the Tier II report did not have the surveyors map or the grain size analysis. Mark stated he provide the map to Ryan and the grain size to Caitlin (SCDHEC Assessment Project Manager). DHEC stated they could not open the map file due to not

having the correct computer program. After the meeting Mark resent the map and grain size analysis to Stephanie and Robert.

- What to expect in the future
  - o This site will need to go into an aggressive clean up
    - A Pay for Performance Solicitation
      - DHEC is trying to decide if the Pay for Performance clean up will include free product recovery and dissolve concentrations or just tackle the free product recovery now since very few monitoring wells have dissolved concentrations. We asked Mark for his opinion on that thought. Agree it might be best to address the free product first since we don't have a lot of dissolved concentrations. Mark also recommends collecting samples below free product to get a better idea on dissolved concentrations.

#### Additional Discussion/Comments:

Mark asked DHEC if they have heard any more complaints from the housing development. SCDHEC has not heard anything recently from the housing development. But during the last SCDHEC site visit it was noted that there was some odor coming from the storm drain near Foundry Rd. A SCDHEC staff member is going to the site this week to use a PID to screen the storm drain.





D.K.M.

Fulkpermaid











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BUS 178

Unknown Storm Pipe