

Greenwood

RECEIVED

APR 24 2008

REALTY, INC

225 BYPASS 72NW STE C

GREENWOOD, SC

29649

UNDERGROUND STORAGE
TANK PROGRAM

FACSIMILE TRANSMITTAL SHEET

TO:	FROM:
STEPHANIE BRINEY	Brent Rowland
COMPANY:	DATE:
DEHEC	APRIL 24, 2008
FAX NUMBER:	TOTAL NO. OF PAGES INCLUDING COVER:
1-803-896-6245	ONE
PHONE NUMBER:	SENDER'S REFERENCE NUMBER:
1-803-896-6241	
RE:	YOUR REFERENCE NUMBER:
UNDERGROUND TANKS	

☐ URGENT ☐ FOR REVIEW ☐ PLEASE COMMENT ☐ PLEASE REPLY ☐ PLEASE RECYCLE

NOTES/COMMENT: Stephanie Briney, Please send me a letter concerning the tanks located at site number 04785 and site number 04669. The addresses are 1802 S Main St. Greenwood SC 29646, and 1030 Maxwell Ave. Greenwood SC 29646. Please fax me letters and mail them to me at 225 By Pass 72NW, Ste C Greenwood, SC 29649. Thank you for your help. Brent Rowland.

UST DOCKET

Permit 04785

1 tech

Permit 04669

8 tech

PHONE 864-388-0202

FAX 864-223-6685

www.WelcomeToGreenwood.com

FORCE & ASSOCIATES, INC.

FACSIMILE TRANSMITTAL SHEET

TO:	Art Shrader	FROM:	Greg Force
COMPANY:	SCDI INC	DATE:	4/23/2008
FAX NUMBER:	896-6245	TOTAL NO. OF PAGES INCLUDING COVER:	7
PHONE NUMBER:	896-6669	SENDER'S REFERENCE NUMBER:	
RE:	Don's Auto (15320) Assessment Plan & Cost Agreement		
<input type="checkbox"/> URGENT <input type="checkbox"/> FOR REVIEW <input type="checkbox"/> PLEASE COMMENT <input checked="" type="checkbox"/> PLEASE REPLY <input type="checkbox"/> PLEASE RECYCLE			

Art,

Attached is the Assessment Plan & Cost Agreement for the referenced facility. Give me a call if you have any questions.

Thanks,

Greg


RECEIVED

APR 23 2008

UNDERGROUND STORAGE
TANK PROGRAM

UST DOCKET

Jtech

D H E C		Assessment Component Cost Agreement			
 South Carolina Department of Health and Environmental Control		South Carolina Department of Health and Environmental Control Underground Storage Tank Program State Underground Petroleum			
Facility Name <u>Don's Auto Service</u>					
UST Permit # <u>15320</u>		Cost Agreement # <u>Pending</u>			
ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL	
1. Plan*					
A. Plan Preparation	1	x	\$100.00	\$100.00	
B. Tax Map		x	\$50.00	\$0.00	
2. Receptor Survey *		x	\$500.00	\$0.00	
3. Comprehensive Survey		x	\$1,000.00	\$0.00	
4. Mob/Demob					
A. Equipment	1	x	\$550.00	\$550.00	
B. Personnel	3	x	\$275.00	\$825.00	
C. Adverse Terrain Vehicle		x	\$550.00	\$0.00	
5. Soil Borings (hand auger)*		x	\$14.00	\$0.00	
6. Soil Borings (drilled) & Field Screening		x	\$17.00	\$0.00	
7. Soil Leachability Model		x	\$200.00	\$0.00	
8. Abandonment*		x	\$5.00	\$0.00	
9. Well Installation*					
A. Water Table (hand auger)		x	\$20.00	\$0.00	
B. Water Table (drilled)		x	\$38.00	\$0.00	
C. Telescoping	110	x	\$58.00	\$6,380.00	
D. Rock Drilling		x	\$58.00	\$0.00	
10. Groundwater Sample Collection					
A. Groundwater	5	x	\$55.00	\$275.00	
B. Air Vapor		x	\$90.00	\$0.00	
C. Water Supply		x	\$25.00	\$0.00	
D. Groundwater No Purge	16	x	\$35.00	\$560.00	
E. Gauge Well only		x	\$20.00	\$0.00	
11. Analyses-Groundwater	(See Analytical Methodology for analyses)				
A. BTEX+Naph.+MTBE	21	x	\$100.00	\$2,100.00	
B. Rush BTEX analysis		x	\$120.00	\$0.00	
D. PAH's		x	\$120.00	\$0.00	
E. Lead		x	\$20.00	\$0.00	
F. EDB	21	x	\$55.00	\$1,155.00	
G. 8 RCRA Metals		x	\$140.00	\$0.00	
H. TPH (9070)		x	\$55.00	\$0.00	
I. pH		x	\$10.00	\$0.00	
J. BOD		x	\$40.00	\$0.00	
K. Nitrate	1	x	\$20.00	\$20.00	
L. Sulfate	1	x	\$20.00	\$20.00	
M. Ferrous Iron	1	x	\$20.00	\$20.00	
N. Methane		x	\$110.00	\$0.00	
O. Organic Lead		x	\$100.00	\$0.00	
P. 8 Oxygenates		x	\$85.00	\$0.00	
AA. Filtered Lead		x	\$46.00	\$0.00	
BB. 1,2 DCA	21	x	\$10.75	\$225.75	

Continue on back of page

11. Analyses-Soil				
Q. BTEX + Naph.		x	\$100.00	\$0.00
R. PAH's		x	\$120.00	\$0.00
S. 8 RCRA Metals		x	\$150.00	\$0.00
T. TPH (9071)		x	\$80.00	\$0.00
U. TPH (3550B/8015B)		x	\$65.00	\$0.00
V. TPH (5030B/8015B)		x	\$65.00	\$0.00
W. Grain size/hydrometer		x	\$75.00	\$0.00
X. Total Organic Carbon		x	\$35.00	\$0.00
11. Analyses-Air				
Y. BTEX + Naph.		x	\$100.00	\$0.00
Z. Hydrocarbon Fuel Identification		x	\$593.00	\$0.00
12. Aquifer Characterization*				
A. Pumping Test		/hour	\$120.00	\$0.00
B. Slug Test		x	\$150.00	\$0.00
13. Free Product Recovery Rate Test*		x	\$120.00	\$0.00
14. Fate/Transport Modeling				
A. Mathematical Model		x	\$300.00	\$0.00
B. Computer Model		x	\$500.00	\$0.00
15. Risk Evaluation				
A. Tier 1 Risk Evaluation		x	\$300.00	\$0.00
B. Tier II Risk Evaluation		x	\$500.00	\$0.00
16. Subsequent Survey*	1	x	\$260.00	\$260.00
17. Disposal*				
A. Wastewater				
1. Purging/Sampling	2	/drum	\$90.00	\$180.00
2. Pumping Test/AFVR		gallons	\$0.60	\$0.00
B. Free Product		/drum	\$110.00	\$0.00
C. Soil (Treatment/Disposal)	2	/ton	\$50.00	\$100.00
18. Miscellaneous (attach receipts)				
		x		\$0.00
		x		\$0.00
		x		\$0.00
20. Tier I Assessment (Use DHEC 3665 form)				
21. IGWA (Use DHEC 3666 form)				
22. Corrective Action (Use DHEC 3687 form)				
23. AFVR				
A. 8-hour Event*		x	\$3,000.00	\$0.00
B. Additional Hour		/hour	\$204.00	\$0.00
C. Off-gas treatment		/hour	\$35.00	\$0.00
24. Granulated Activated Carbon (GAC) filter system installation & service:				
A. New GAC System Installation*		x	\$2,500.00	\$0.00
B. Refurbished GAC Sys. Install*		x	\$850.00	\$0.00
C. Filter replacement/removal*		x	\$450.00	\$0.00
D. GAC System removal, cleaning, & refurbishment*		x	\$450.00	\$0.00
E. GAC System housing		x	\$450.00	\$0.00
F. In-line particulate filter		x	\$140.00	\$0.00
G. Additional piping & fittings		/foot	\$4.00	\$0.00
25. Well Repair				
A. Additional copies of report		each x	\$5.00	\$0.00
B. Repair 2x2 monitoring well pad		each x	\$100.00	\$0.00
C. Repair 4x4 monitoring well pad		each x	\$150.00	\$0.00
D. Replace well vault		each x	\$225.00	\$0.00
E. Replace well cover and gasket		each x	\$30.00	\$0.00
F. replace well cover bolts		each x	\$10.00	\$0.00
G. Replace locking well cap & lock		each x	\$15.00	\$0.00
19. Report/Project Management				

TIER II ASSESSMENT PLAN**SOUTH CAROLINA****Department of Health and Environmental Control
Division of Underground Storage Tank Management**

Facility ID # 15320 County Richland Facility Name Don's Auto Service
Facility Address 2799 Millwood Ave., Columbia, SC
UST Owner/Operator Jeremy Wilson - Wyvern Corp Address PO Box 11312, Columbia, SC
No. USTs removed? (date) replaced? (date)
Current O/O, if different from above
Current use of facility/property Auto Sales
Current property owner name Central Real Estate, Inc.
Current property owner address 2799 Millwood Ave, Columbia, SC 29205

Field Screening Methodology

Specify the field screening methodology to be used. The use of field screening methods to optimize the number and location of permanent wells is required.

OVA-FID

Permanent Monitoring wells (Estimate number and total completed depth)
of shallow wells total depth
of deep wells 1 total depth 110 (If necessary)
Comments, if warranted

Analyses

List the analytical parameters (e.g., BTEX, MTBE) and estimated number.

21- Water - BTEX, MTBE, Naph., EDB & 1,2 DCA, and 1- Ferrous Iron, Sulfate & Nitrate

Implementation Schedule

Start up date May-08

Completion date Aug-08

Report submittal date 1-Sep-08

DHEC 3627

RAPID ASSESSMENT PLAN**SOUTH CAROLINA****Department of Health and Environmental Control
Division of Underground Storage Tank Management**Facility ID # 15320 Facility Name Don's Auto Service**Site Maps**

1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:

North Arrow

Location of property lines

Location of buildings

Paved areas on or adjacent to site

Previous soil sampling locations

Previous monitoring well locations

Legend with facility name and address, Site ID number, date, and a bar scale

Streets or highways (indicate names and numbers)

Identification of located buildings

Location of all present and former ASTs and USTs

Underground and above ground utilities on or adjacent to site

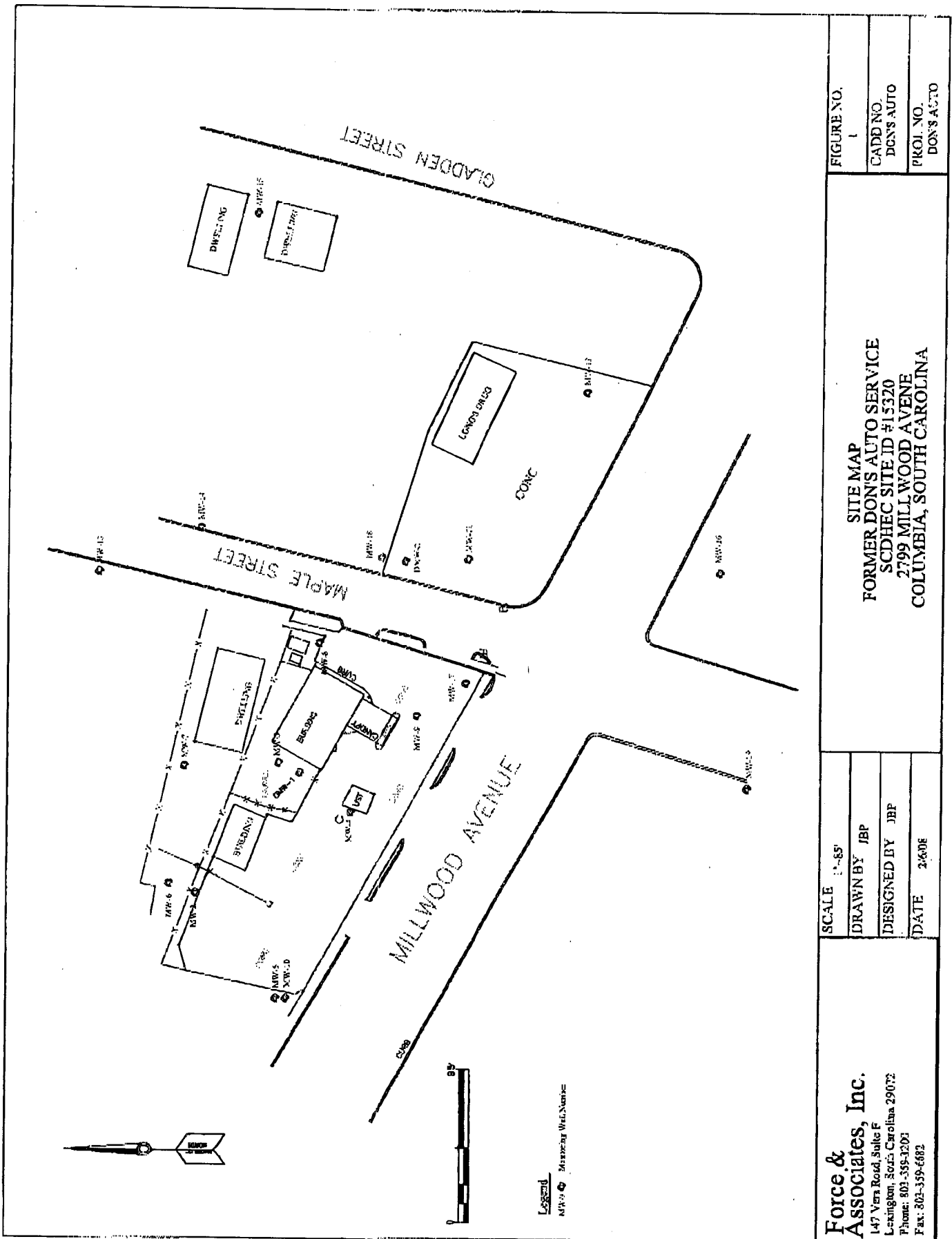
Location of any other potential receptor

Aquifer Characterization

(Check one and provide explanation for choice)

Pump Test Slug Tests **Small Volume Disposal Type and Method**Soil Drummed for proper disposalPurge Water Drummed for proper disposal**Additional Comments**

DHEC 03527





C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

MR BRENT ROWLAND
GREENWOOD REALTY INC
225 BYPASS 72 NW STE C
GREENWOOD SC 29649

APR 30 2008

Re: Letter of Concern
Quick Pantry 19, 1802 S. Main St., Greenwood, SC
UST Permit # 04785
Concern Letter request received April 24, 2008
Greenville County

Dear Mr. Rowland:

You requested that this office provide you with an update on the environmental conditions at the above referenced facility.

Our records revealed that three underground storage tank (USTs) owned by Lucky Strike Amusements are still in use and were last inspected January 25, 2008. We received a report on November 12, 1991 documenting subsurface contamination in the vicinity of the former underground storage tanks. In response to the initial report of contamination, we directed Worsley Companies the tank owner at the time of the release, as the party responsible for performing this activity under state and federal law, to assess the extent and severity of the contamination. The release that was reported on November 12, 1991 was issued a No Further Action (NFA) on December 17, 1992.

In 1997, the General Assembly amended Section 80 (B) of the SUPERB Act to clarify that persons who hold "indicia of ownership" primarily to protect a security interest in property impacted by a release from a UST are exempt from the requirements to conduct site rehabilitation activities other than necessary abatement actions to eliminate any imminent threat to human health or the environment. The "indicia of ownership" exemption includes those persons who acquire title to property through foreclosure or other means necessary to protect their security interest, provided that person does not participate in the management of the UST and is not otherwise engaged in petroleum production, marketing, or refining. This applies equally to subsequent lenders who acquire the USTs and property through foreclosure in the future.

The Program is not aware of any laws or regulations that prohibit the use or development of properties where a petroleum release has occurred.

If you have any questions, please contact me at (803) 896-6323. I can also be reached by email at brineysm@dhec.sc.gov or by fax at (803) 896-6245.

Sincerely,

Stephanie Briney, Hydrogeologist
Assessment Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management

cc: Technical File

UST DOCKET



APR 02 2021



MR MIKE PATEL
311 OAKMONTE CIRCLE
GREENWOOD SC 29649

Re: Aggressive Fluid and Vapor Recovery Notice to Proceed
Quick Pantry 19, 1802 South Main Street, Greenwood, SC
UST Permit #04785
Release reported and confirmed date March 9, 2021
Site Check Report received March 25, 2021
Citizen complaint received March 26, 2021
Site-Specific Work Plan (SSWP) for Aggressive Fluid Vapor Recovery received March 30, 2021
Greenwood County

Dear Mr. Patel:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the above referenced report which documents free-phase product (FPP) or Chemicals of Concern (CoC) in the subsurface as a result of the above referenced release. In addition, we have received complaints from citizens in the area about petroleum vapors which represent a risk to human health and the environment. DHEC personnel visited the site March 26, 2021 and March 29, 2021 and confirmed the presence of vapors as well as noted a petroleum seep in the nearby creek. DHEC has reviewed the above referenced SSWP submitted by your contractor and would like to provide the following comments:

- The SSWP includes the statement from your contractor, *"A request was made for assistance in obtaining site access to the SCDHEC but that request has been ignored."* DHEC would like to clarify that it is the responsibility of the owner/operator to obtain all necessary property access for site rehabilitation activities. Upon request, DHEC can provide a letter to you and your contractor in order for you to be able to provide additional information to offsite property owners.

DHEC approves the above referenced SSWP so that free-phase product removal on-site may commence before a full abatement plan is submitted.

In accordance with Section 280.64 of the South Carolina Underground Storage Tank Control Regulations R.61-92, Aggressive Fluid and Vapor Recovery (AFVR) events may proceed immediately upon receipt of this letter as outlined in this directive, the approved Site-Specific Work Plan, and the current revision of the UST Quality Assurance Program Plan (QAPP). **Please be aware that the AFVR Procedures have been updated.** Please advance to the target depth(s) within the first eight (8) hours of the event. Thereafter,

the stinger(s) should be adjusted to achieve the highest vapor recovery while maintaining dewatering of the smear zone. Off-gas treatment will be necessary. A copy of the current revision of the UST Division's QAPP is available at

<https://scdhec.gov/environment/land-waste/underground-storage-tanks/release-assessment-clean/quality-assurance>.

As soon as the beginning date of the event has been scheduled, please contact the Project Manager listed below. Preliminary AFVR data should be submitted electronically for review at the completion of the first event. At that time, DHEC will issue another AFVR directive if AFVR is effective at removing FPP.

The first AFVR Report should be submitted within 90 days from the date of this correspondence.

Please note that all applicable South Carolina certification requirements apply to the services and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

The approved SSWP for AFVR does not address the below concerns. Your contractor must submit a plan for abatement to address the following concerns by April 6, 2021:

- Prevention of free product from migrating off gas station property
- Seepage of free product into the nearby creek
- Vapors entering storm sewer system owned and operated by the city of Greenwood
- Full delineation of soil and groundwater in subsurface (Tier II assessment)

According to UST Division records, the release at the facility was reported to DHEC on the above referenced date. In accordance with Section 44-2-40(D) of the State Underground Petroleum Environmental Response Bank (SUPERB) Act, you are responsible for the first \$25,000 of site rehabilitation costs. To ensure that costs for the assessment apply to the \$25,000 deductible, please provide proof of costs that will be applied to the deductible with the invoice. Acceptable proof of payment of deductible costs include a copy of the cancelled check (front and back) of payment made to your contractor or a signed notarized statement by your contractor for the amount that was paid directly to your contractor. Your contractor can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for preapproved costs that exceed the \$25,000 deductible.

DHEC grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. The transport and disposal must be conducted in accordance with the QAPP. If CoC concentrations, based on laboratory analysis, are below Risk Based Screening Levels, please contact the Project Manager for approval to dispose of soil and/or groundwater on site. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

On all correspondence concerning this site, please reference UST Permit #04785. If there are any questions concerning this project, feel free to contact me by telephone at (803) 898-3807, by fax at (803) 898-0673, or by e-mail at reillycm@dhec.sc.gov.

Sincerely,

A handwritten signature in cursive script that reads "Caitlin Reilly".

Caitlin Reilly, Hydrogeologist
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Mr. Shah Aziz, 311 Oakmonte Circle, Greenwood, SC 29649
KLM Environmental LLC, PO Box 2704, Goose Creek, South Carolina 29445 (w/o enc)
Technical file (w/enc)



APR 12 2021



MR PATEL
311 OAKMONTE CIRCLE
GREENWOOD SC 29649

Re: **Tier II Assessment Notice to Proceed**
Quick Pantry 19, 1802 South Main Street, Greenwood, SC
UST Permit #04785; CA #63531 .
Release #2 reported March 9, 2021
Site Specific Work Plan Received April 5, 2021
Greenwood County

Dear Mr. Patel:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed and approved the referenced Site-Specific Work Plan (SSWP) submitted by your contractor. All work should be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP), your contractor's Annual Contractor Quality Assurance Plan, and in compliance with all applicable regulations. A copy of the current revision of the UST QAPP is available at scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/

The Tier II Assessment should begin immediately upon receipt of this letter. A monitoring well approval has been enclosed for the monitoring well installation. The above referenced cost agreement number has been approved for the amount shown on the enclosed cost agreement form.

Please note the following changes to the cost agreement and SSWP:

- The attached cost agreement is only for the initial onsite assessment. Once the onsite assessment has been completed and off site access agreements have been obtained the remainder of the work plan will be approved.

The Contractor must provide the UST Project Manager with a Project Status Report on a weekly basis via e-mail or notify the UST Project Manager via email 4 days prior to initiation of any site rehabilitation activities. If there are any changes or conflicts with the date(s) of site activities, the UST Project Manager must be contacted within 24 hours of those changes.

The Tier II Report, contractor checklist (QAPP Appendix K), and invoice should be submitted to the UST Division within ninety (90) days of the date of this correspondence. The report submitted at the completion of these activities should include the required information outlined in the UST QAPP.

According to UST Division records, the release at the facility was reported to DHEC on the above referenced date. In accordance with Section 44-2-40(D) of the State Underground Petroleum Environmental Response Bank (SUPERB) Act, you are responsible for the first \$25,000 of site rehabilitation costs. To ensure that costs for the assessment apply to the \$25,000 deductible, costs must be preapproved and a cost agreement provided once the QAPPA or SSWP is approved.

Please note that in accordance with R.61-92, Subpart H, Section 280.114, you are required to notify the UST Division by certified mail within ten (10) days of commencing a voluntary or involuntary proceeding in bankruptcy.

Please note that applicable South Carolina certification requirements regarding laboratory services, well installation, and report preparation must be satisfied. Any site rehabilitation activity associated with the UST release must be performed by a DHEC-certified site rehabilitation contractor as required by R.61-98.

The UST Division grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. There can be no spillage or leakage in transport. All investigation-derived waste (IDW) must be properly contained and labeled prior to disposal. IDW should not be stored on-site longer than ninety (90) days. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included as an appendix to the report. If the Chemical of Concern (CoC) concentrations based on laboratory analysis is below Risk-Based Screening Levels (RBSLs), please contact the project manager for approval to dispose of soil and/or groundwater on-site. Transportation or treatment of soil and/or groundwater with concentrations below RBSLs will not be reimbursed by the SUPERB Account or applied towards the deductible.

On all correspondence regarding this site, please reference the above listed UST Permit number. Should you have any questions regarding this correspondence, please feel free to contact me by phone at (803) 898-3807, by fax at (803) 898-0673, or by email at reillycm@dhec.sc.gov.

Sincerely,



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

enc: Approved Cost Agreement (ACA)
Monitoring Well Approval (MWA)

cc: KLM Environmental LLC, PO Box 2704, Goose Creek, South Carolina 29649 (w/ enc)
Mr. Shah Aziz, 311 Oakmonte Circle, Greenwood, South Carolina 29445 (w/ enc)
Technical file (w/ enc)

Approved Cost Agreement**63531**

Facility: 04785 QUICK PANTRY 19

REILLYCM

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
D MOB/DEMOB					
		1 EQUIPMENT	1.0000	\$1,088.340	1,088.34
		2 PERSONNEL	1.0000	\$451.340	451.34
F SOIL BORINGS (DRILLED)					
		1 SOIL BORING/FLD SCR. STANDARD	1,300.0000	\$16.010	20,813.00
H ABANDONMENT					
		1 ABANDONMENT 2" DIA OR LESS	1,300.0000	\$3.310	4,303.00
S REPORT PROJECT MANAGEMENT					
		S REPORT PREP & PROJ. MANAGEMENT	0.1200	\$26,655.680	3,198.68
Total Amount					29,854.36



APR 12 2021

MR MIKE PATEL
311 OAKMONTE CIRCLE
GREENWOOD SC 29649

Re: Aggressive Fluid and Vapor Recovery Notice to Proceed
Quick Pantry 19, 1802 South Main Street, Greenwood, SC
UST Permit #04785; CA #63514
Release reported and confirmed date March 9, 2021
Site Check Report received March 25, 2021
Citizen complaint received March 26, 2021
Site-Specific Work Plan (SSWP) for Aggressive Fluid Vapor Recovery received March 30, 2021
Greenwood County

Dear Mr. Patel:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the above referenced report which documents free-phase product (FPP) or Chemicals of Concern (CoC) in the subsurface as a result of the above referenced release. In addition, we have received complaints from citizens in the area about petroleum vapors which represent a risk to human health and the environment. DHEC personnel visited the site March 26, 2021 and March 29, 2021 and confirmed the presence of vapors as well as noted a petroleum seep in the nearby creek.

DHEC approves the above referenced SSWP so that free-phase product removal on-site may commence.

In accordance with Section 280.64 of the South Carolina Underground Storage Tank Control Regulations R.61-92, Aggressive Fluid and Vapor Recovery (AFVR) events may proceed immediately upon receipt of this letter as outlined in this directive, the approved Site-Specific Work Plan, and the current revision of the UST Quality Assurance Program Plan (QAPP). **Please be aware that the AFVR Procedures have been updated.** Please advance to the target depth(s) within the first eight (8) hours of the event. Thereafter, the stinger(s) should be adjusted to achieve the highest vapor recovery while maintaining dewatering of the smear zone. Off-gas treatment will be necessary. A copy of the current revision of the UST Division's QAPP is available at <https://scdhec.gov/environment/land-waste/underground-storage-tanks/release-assessment-clean/quality-assurance>.

As soon as the beginning date of the event has been scheduled, please contact the Project Manager listed below. Preliminary AFVR data should be submitted electronically for review at the completion of the first event. At that time, DHEC will issue another AFVR directive if AFVR is effective at removing FPP.

The second AFVR Report should be submitted within 90 days from the date of this correspondence.

Please note that all applicable South Carolina certification requirements apply to the services and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

According to UST Division records, the release at the facility was reported to DHEC on the above referenced date. In accordance with Section 44-2-40(D) of the State Underground Petroleum Environmental Response Bank (SUPERB) Act, you are responsible for the first \$25,000 of site rehabilitation costs. To ensure that costs for the assessment apply to the \$25,000 deductible, please provide proof of costs that will be applied to the deductible with the invoice. Acceptable proof or payment of deductible costs include a copy of the cancelled check (front and back) of payment made to your contractor or a signed notarized statement by your contractor for the amount that was paid directly to your contractor. Your contractor can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for preapproved costs that exceed the \$25,000 deductible.

DHEC grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. The transport and disposal must be conducted in accordance with the QAPP. If CoC concentrations, based on laboratory analysis, are below Risk Based Screening Levels, please contact the Project Manager for approval to dispose of soil and/or groundwater on site. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

On all correspondence concerning this site, please reference UST Permit #04785. If there are any questions concerning this project, feel free to contact me by telephone at (803) 898-3807, by fax at (803) 898-0673, or by e-mail at reillycm@dhec.sc.gov.

Sincerely,



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

cc: Mr. Shah Aziz, 311 Oakmonte Circle, Greenwood, SC 29649
KLM Environmental LLC, PO Box 2704, Goose Creek, South Carolina 29445 (w/o enc)
Technical file (w/enc)

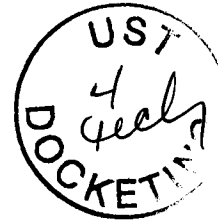
Approved Cost Agreement**63514**

Facility: 04785 QUICK PANTRY 19

REILLYCM

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
A PLAN PREPARATION					
		1 SITE SPECIFIC WORK PLAN	1.0000	\$160.050	160.05
S REPORT PROJECT MANAGEMENT					
		S REPORT PREP & PROJ. MANAGEMENT	0.1200	\$48,495.940	5,819.51
W AFVR					
		14 AFVR SITE RECONNAISSANCE	1.0000	\$216.870	216.87
		16 AFVR EFFLUENT DISPOSAL	40,000.0000	\$0.470	18,800.00
		17 AFVR MOB - DEMOB	2.0000	\$417.730	835.46
		4 96 HOUR EVENT	2.0000	\$13,409.520	26,819.04
		8 OFF GAS TREATMENT 96 HOUR	2.0000	\$832.260	1,664.52
Total Amount					54,315.45



APR 12 2021

MR PATEL
311 OAKMONTE CIRCLE
GREENWOOD SC 29649

Re: **Emergency Assessment Plan Approval**
Quick Pantry 19, 1802 South Main Street, Greenwood, SC
UST Permit #04785; CA #63530
Release #2 reported March 9, 2021
Site Specific Work Plan Received April 5, 2021
Greenwood County

Dear Mr. Patel:

The Underground Storage Tank (UST) Management Division (Division) of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the referenced Site Specific Work Plan submitted on your behalf by KLM Environmental Consultants. This scope of work may include the installation and replacement of oil/fuel absorbent booms across the affected waterway due to the petroleum release confirmed on March 9, 2021. All work should be conducted in accordance with the above referenced Site-Specific Work Plan (SSWP), KLM's Annual Contractor Quality Assurance Plan (ACQAP), and must be conducted in compliance with all applicable regulations. A copy of the current revision of the QAPP is available at <https://www.scdhec.gov/environment/lw/ust/ReleaseAssessmentClean-up/QualityAssurance/>.

Activities at the site should begin immediately upon receipt of this letter. **Cost agreement #63530** has been approved for the amount shown on the enclosed cost agreement form **only for the installation** and one replacement of the oil/fuel absorbent booms to the affected waterway in the ten areas shown in the map provided by KLM Environmental.

Please note the following changes to the cost agreement and SSWP:

- R. Miscellaneous – Both the booms and stakes shipping/handling charges have been removed, the SUPERB fund will not cover these charges

The Emergency Assessment Report and invoice are due within 60 days from the date of this letter.

The report submitted at the completion of these activities should include the required information outlined in KLM's ACQAP. Please note that all applicable South Carolina certification requirements apply to the services and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

According to Division records, the release at the facility was reported to DHEC on March 9, 2021. In accordance with Section 44-2-40(D) of the SUPERB Act, you are responsible for the first \$25,000 of site rehabilitation costs. To ensure that expenditures made toward rehabilitation apply to the \$25,000 deductible, the Division has pre-approved costs for the disposal and assigned a cost agreement number for tracking. By law, the SUPERB Account cannot compensate any costs that are not pre-approved.

The Division has pre-approved a total of \$7,672.37 for the installation and one replacement of the absorbent booms. Upon receipt of a report of findings up to \$7,672.37 will be applied towards the \$25,000 deductible.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from DHEC is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by DHEC for the cost to be paid. DHEC reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, DHEC reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

DHEC grants pre-approval for the installation and replacement of oil/fuel absorbent booms to the affected waterway. **Please note that SUPERB will only reimburse for installation and one replacement of the booms to the affected waterway and not for the shipping and/or handling of the booms or stakes.**

On all correspondence regarding this site, please reference the above listed UST Permit number. Should you have any questions regarding this correspondence, please feel free to contact me by phone at (803) 898-3807, by fax at (803) 898-0673, or by email at reillycm@dhec.sc.gov.

Sincerely,



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

enc: Approved Cost Agreement (ACA)
Monitoring Well Approval (MWA)

cc: KLM Environmental LLC, PO Box 2704, Goose Creek, South Carolina 29649 (w/ enc)
Mr. Shah Aziz, 311 Oakmonte Circle, Greenwood, South Carolina 29445 (w/ enc)
Technical file (w/ enc)

Approved Cost Agreement**63530**

Facility: 04785 QUICK PANTRY 19

REILLYCM

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
A PLAN PREPARATION					
		1 SITE SPECIFIC WORK PLAN	1.0000	\$160.050	160.05
D MOB/DEMOB					
		1 EQUIPMENT	2.0000	\$1,088.340	2,176.68
		2 PERSONNEL	2.0000	\$451.340	902.68
		3 ADVERSE TERRAIN VEHICLE	2.0000	\$533.500	1,067.00
R MISCELLANEOUS					
		BOOMS	1.0000	\$2,500.000	2,500.00
		STAKES	1.0000	\$43.920	43.92
S REPORT PROJECT MANAGEMENT					
		S REPORT PREP & PROJ. MANAGEMENT	0.1200	\$6,850.330	822.04
Total Amount					7,672.37

Document Receipt Information

☐

Hard Copy



CD

☐

Email

Date Received

4-16-21

Permit Number

04785

Project Manager

Carlini Reilly

Name of Contractor

KLM Env

Docket Number

7466

Document Title

Sampling Report

Scanned



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

March 29, 2021

Ms. Denise Place, Ms. Ashley Thrash, & Mr. Thomas O'Neal
SCDHEC USTMD
2600 Bull Street
Columbia, SC 29201

Re: UST # 04785
Quick Pantry # 19

Ms. Place, Ms. Thrash, and Mr. O'Neal

KLM Environmental, LLC has been retained by Mr. Mike Patel with Bahuchar Mata, LLC in response to a letter of concern for UST # 04785. Investigation of a suspected release was initiated due to public complaints of gasoline odor in this area. The local fire department initially investigated the reports and it eventually escalated to the SCDHEC. During that investigation, free product was noted several hundred yards away from the Quick Pantry # 19 site in and adjacent to a creek. An assessment was requested by the SCDHEC for the Quick Pantry # 19 site. Due to some miscommunication and lost paperwork, that assessment was not completed by the responsible party. Eventually, a consent order was issued which prompted the final completion of the assessment work requested by the SCDHEC. KLM conducted this work following the issuance of the consent order.

On March 8th, 2021 KLM mobilized to the site to perform the sampling as directed by the SCDHEC. Upon arriving, KLM noted a monitoring well present in the tank pit. The origin of that well is unknown. KLM gauged the well and free product (gasoline) was detected from 12.17 feet to 17.02 feet. KLM then utilized a Geoprobe 7822 and advanced a sampler in the area shown on the attached map to collect a sample below the free product zone from an area between the creek and the tank basin as requested by Ms. Place. The sampler was advanced to 24 feet and screened from 20-24 feet. A water sample was collected and submitted to the analytical laboratory for analysis. KLM also walked the area between the tank basin and the creek, and the surrounding areas. Fuel issues are present at an area halfway to the creek in a low-lying area. This fuel however smelled of kerosene/diesel fuel which is not sold at the Quick Pantry # 19. Absorbent pads were found in and around the creek and had a fuel odor. The property owner where the creek is located stopped and spoke with us while on site and indicated he had put the pads down there to catch some fuel entering the creek from the unknown source. He also indicated he had hired an attorney and that Greg Force had been on his site and collected samples. We were not given the results of that sampling and it is unknown if the SCDHEC issued a permit for collection of the samples and if a copy of the results has been received.

It was also noted that a VCC site is immediately adjacent to the property where the fuel issue has been found. VCC- 17-5707-NRP is located on the south side of Foundry Road. A fuel smell can be detected in that area along Foundry Road but may be coming from runoff water from the site where fuel was found in the creek.

The results for the sample collected on site are provided in Table 1. A photograph is also included as Figure 3 showing a sample of the free product taken from the monitoring well located on site in the tank basin. Figure 4 depicts the route the creek/drainage flows which explains residents at a significant distance smelling petroleum odors if fuel is continuing to enter the creek.

TABLE 1
Summary of Analytical Data
Quick Pantry # 19
Greenwood, SC

Sample #	Date Sampled	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naphthalene	1,2 DCA	EDB
RBSL	--	5	1000	700	10000	40	25	5	0.05
GP-1	3/8/21	22000	43000	2800	14000	3700	<1000	<200	NS
Sample #	Date Sampled	(ETBE)	(TAME)	(DIPE)	(TBA)	(TAA)	(TBF)	Ethanol	(ETBA)
RBSL	--	47	128	150	1400	240	--	10000	--
GP-1	3/8/21	<2000	<2000	10000	28000	<20000	<20000	1400000	<20000

As previously mentioned, the SCDHEC issued a proposed consent order dated February 22nd, 2021 due to failure to complete the requested assessment and tank testing. Mr. Patel had begun working on the project however and had the tank tightness testing scheduled before the consent order was issued. The tank tightness testing was performed on February 22nd, 2021 by Bunnell Lammons Engineering using the Purpora testing system. Tank #1 failed that testing. The contents of the tank were removed prior to KLM arriving on site on 3/8/21 and the tank was placed out of service according to store personnel.

Based on the free product, sampling results, and fuel discharge into the creek several hundred yards from the site, KLM recommends further investigation. As legal counsel has been retained by the adjacent property owner, KLM may require assistance in obtaining site access. We look forward to working with you going forward on this project. Please call me directly at 843-870-4285 if you have any questions.

Sincerely,

KLM Environmental, LLC



Mark L. Keller, PG
President



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



KLM Environmental, LLC

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

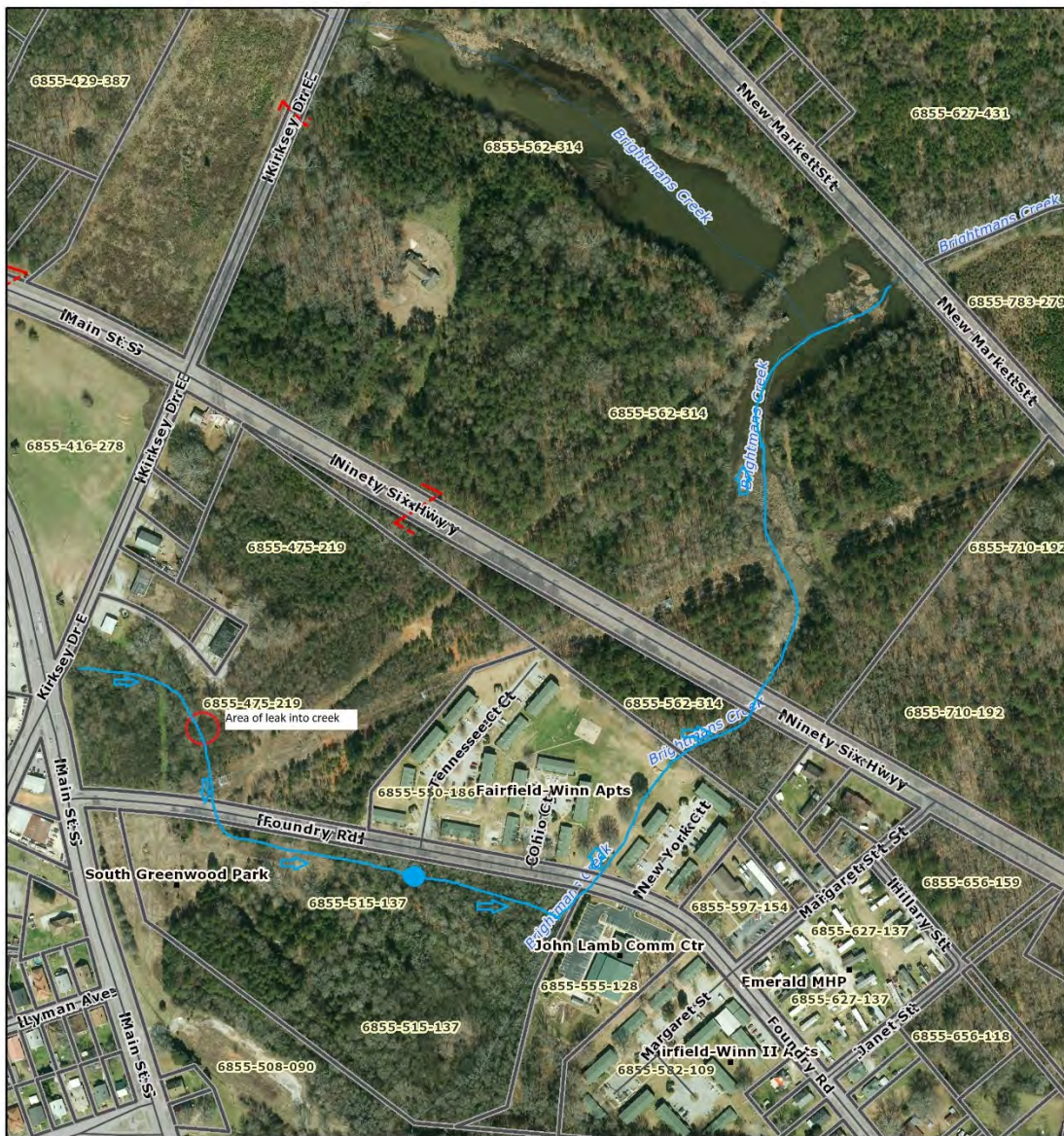
Figure 2
Sample Location Map
Quick Pantry # 19
Greenwood, SC
Project # 21547



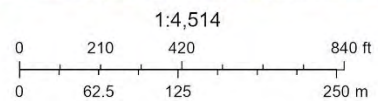
KLM Environmental, LLC
Phase I-Phase II- Underground Storage Tanks-Soil & Water Sampling-Well Installation

Figure 3
Free Product Sample
Quick Pantry # 19
Greenwood, SC
UST # 04785

Foundry Rd oil in creek wide aerial



October 28, 2020



Map Layers, sdf

Disclaimer: Map and parcel data are believed to be accurate, but accuracy is not guaranteed. This is not a legal document and should not be substituted for a title search, appraisal, survey, or for



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

Figure 4
Creek Flow Map
Quick Pantry # 19
Greenwood, SC
UST # 04785



ANALYTICAL ENVIRONMENTAL SERVICES, INC.

March 24, 2021

Mark Keller
KLM Environmental, LLC

P.O. Box 2704
Goose Creek SC 29445

RE: QP-19

Dear Mark Keller:

Order No: 2103D91

Analytical Environmental Services, Inc. received 1 samples on 3/11/2021 1:40:00 PM
for the analyses presented in following report.

"No problems were encountered during the analyses except as noted in the Case Narrative or by qualifiers in the report or QC Summary. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits.

AES' certifications are as follows:

-South Carolina Certification number 98016003 for Clean Water Act and for Solid and Hazardous Waste, effective until 6/30/21.

These results relate only to the items tested as received. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Eben Buchanan
Project Manager



CHAIN OF CUSTODY

COMPANY: KLM Environmental		ADDRESS: PO Box 2704 Groves Creek SC 29445			ANALYSIS REQUESTED										Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.		Number of Containers	
PHONE: 843-870-4285		EMAIL: mkella1310@comcast.net			<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEXNM</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">DOXY</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">FDB</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">12DCA</div> </div>										REMARKS			
SAMPLED BY: M. Kella		SIGNATURE: <i>[Signature]</i>																
#	SAMPLE ID	SAMPLED:		GRAB	COMPOSITE	MATRIX (see codes)	PRESERVATION (see codes)										REMARKS	
		DATE	TIME															
1	GP-1	3/8/21	1340	Q			X	X	X	X								
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		

RELINQUISHED BY: <i>[Signature]</i>		DATE/TIME: 3/9/21 11:30		RECEIVED BY: <i>[Signature]</i>		DATE/TIME: 3/11/21 9:53		PROJECT INFORMATION				RECEIPT			
1. <i>[Signature]</i>				1. <i>[Signature]</i>		0.4³		PROJECT NAME:				Total # of Containers 9			
2.				2.				PROJECT #:							
3.				3.				SITE ADDRESS:				Turnaround Time (TAT) Request <input checked="" type="checkbox"/> Standard <input type="checkbox"/> 2 Business Day Rush <input type="checkbox"/> Next Business Day Rush <input type="checkbox"/> Same-Day Rush (auth req.) <input type="checkbox"/> Other _____			
SPECIAL INSTRUCTIONS/COMMENTS:				SHIPMENT METHOD		OUT: / / VIA: IN: / / VIA: Client <u>FedEx</u> UPS US mail courier other: _____		SEND REPORT TO:						REGULATORY PROGRAM (if any):	
								QUOTE #:				PO#:		DATA PACKAGE: I <input type="radio"/> II <input type="radio"/> III <input type="radio"/> IV <input type="radio"/>	

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Client assumes sole responsibility for damage or loss of samples before we accept them. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arrangements are made.

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water ST = Stormwater WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

Preservative Codes: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

4.30.20_COC

Client: KLM Environmental, LLC
Project: QP-19
Lab ID: 2103D91

Case Narrative

The project name was not listed on the Chain of Custody. The project name was taken from the container labels.

Volatile Organic Compounds Analysis by Method 8260D:

Due to the level of ethanol present in sample 2103D91-001A 5000 fold dilution was required. The dilution on sample 2103D91-001A was performed outside the 14 day holding time resulting H qualified data.

Client: KLM Environmental, LLC
Project Name: QP-19
Lab ID: 2103D91-001

Client Sample ID: GP-1
Collection Date: 3/8/2021 1:40:00 PM
Matrix: Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Volatile Organic Compounds by GC/MS		SW8260D			(SW5030B)			
Benzene	22000	200		ug/L	312338	200	03/20/2021 23:04	CM
Toluene	43000	500		ug/L	312338	500	03/20/2021 22:44	CM
Ethylbenzene	2800	200		ug/L	312338	200	03/20/2021 23:04	CM
Xylenes, Total	14000	200		ug/L	312338	200	03/20/2021 23:04	CM
Methyl tert-butyl ether	3700	200		ug/L	312338	200	03/20/2021 23:04	CM
Naphthalene	BRL	1000		ug/L	312338	200	03/20/2021 23:04	CM
1,2-Dichloroethane	BRL	200		ug/L	312338	200	03/20/2021 23:04	CM
Surr: 4-Bromofluorobenzene	105	70-130		%REC	312338	200	03/20/2021 23:04	CM
Surr: 4-Bromofluorobenzene	106	70-130		%REC	312338	500	03/20/2021 22:44	CM
Surr: Dibromofluoromethane	90.1	70-130		%REC	312338	500	03/20/2021 22:44	CM
Surr: Dibromofluoromethane	94.5	70-130		%REC	312338	200	03/20/2021 23:04	CM
Surr: Toluene-d8	103	70-130		%REC	312338	200	03/20/2021 23:04	CM
Surr: Toluene-d8	107	70-130		%REC	312338	500	03/20/2021 22:44	CM
Oxygenates		SW8260D			(SW5030B)			
Ethyl tert-butyl ether	BRL	2000		ug/L	312338	200	03/19/2021 22:10	OM
tert-Amyl methyl ether	BRL	2000		ug/L	312338	200	03/19/2021 22:10	OM
Isopropyl ether	10000	2000		ug/L	312338	200	03/19/2021 22:10	OM
tert-Butyl Alcohol	28000	20000		ug/L	312338	200	03/19/2021 22:10	OM
tert-Amyl alcohol	BRL	20000		ug/L	312338	200	03/19/2021 22:10	OM
tert-Butyl formate	BRL	20000		ug/L	312338	200	03/19/2021 22:10	OM
Ethanol	1400000	500000	H	ug/L	312338	5000	03/22/2021 17:50	CM
3,3-Dimethyl-1-butanol	BRL	20000		ug/L	312338	200	03/19/2021 22:10	OM
MICRO-EXTRACTABLE VOLATILE ORGANICS		SW8011			(SW8011)			
1,2-Dibromoethane	BRL	0.019		ug/L	311924	1	03/16/2021 06:26	ST
Surr: 4-Bromofluorobenzene	1500	73.6-140	S	%REC	311924	1	03/16/2021 06:26	ST

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value

- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- F Analyzed in the lab which is a deviation from the method
- < Less than Result value
- J Estimated value detected below Reporting Limit

SAMPLE/COOLER RECEIPT CHECKLIST

Clear

Save as

1. Client Name: **KLM Environmental, LLC**

AES Work Order Number: **2103D91**

2. Carrier: FedEx ☒ UPS ☐ USPS ☐ Client ☐ Courier ☐ Other ☐

	Yes	No	N/A	Details	Comments
3. Shipping container/cooler received in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	damaged <input type="checkbox"/> leaking <input type="checkbox"/> other <input type="checkbox"/>	
4. Custody seals present on shipping container?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
5. Custody seals intact on shipping container?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
6. Temperature blanks present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
7. Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	Cooling initiated for recently collected samples / ice present <input type="checkbox"/>	
8. Chain of Custody (COC) present?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
9. Chain of Custody signed, dated, and timed when relinquished and received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
10. Sampler name and/or signature on COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
11. Were all samples received within holding time?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
12. TAT marked on the COC?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. <input checked="" type="checkbox"/>	

13. Cooler 1 Temperature 0.4 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C
 14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials).

EDB 3/11/21

	Yes	No	N/A	Details	Comments
16. Were sample containers intact upon receipt?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
17. Custody seals present on sample containers?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>		
18. Custody seals intact on sample containers?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
19. Do sample container labels match the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	incomplete info <input type="checkbox"/> illegible <input type="checkbox"/> no label <input type="checkbox"/> other <input type="checkbox"/>	
20. Are analyses requested indicated on the COC?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
21. Were all of the samples listed on the COC received?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	samples received but not listed on COC <input type="checkbox"/> samples listed on COC not received <input type="checkbox"/>	
22. Was the sample collection date/time noted?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
23. Did we receive sufficient sample volume for indicated analyses?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
24. Were samples received in appropriate containers?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
25. Were VOA samples received without headspace (< 1/4" bubble)?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
26. Were trip blanks submitted?	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	listed on COC <input type="checkbox"/> not listed on COC <input checked="" type="checkbox"/>	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials).

EDB 3/11/21

This section only applies to samples where pH can be checked at Sample Receipt.

	Yes	No	N/A	Details	Comments
28. Have containers needing chemical preservation been checked? *	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
29. Containers meet preservation guidelines?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		
30. Was pH adjusted at Sample Receipt?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

This also excludes metals by EPA 200.7, 200.8 and 245.1 which will be verified between 16 and 24 hours after preservation.

I certify that I have completed sections 28-30 (dated initials).

EDB 3/11/21

Client: KLM Environmental, LLC
Project Name: QP-19
Lab Order: 2103D91

Dates Report

Lab Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
2103D91-001A	GP-1	3/8/2021 1:40:00PM	Aqueous	Volatile Organic Compounds by GC/MS		3/19/2021 9:21:00AM	03/20/2021
2103D91-001A	GP-1	3/8/2021 1:40:00PM	Aqueous	Oxygenates by GC/MS		3/19/2021 9:21:00AM	03/19/2021
2103D91-001A	GP-1	3/8/2021 1:40:00PM	Aqueous	Oxygenates by GC/MS		3/19/2021 9:21:00AM	03/22/2021
2103D91-001B	GP-1	3/8/2021 1:40:00PM	Aqueous	MICRO-EXTRACTABLE VOCs		3/15/2021 9:55:54AM	03/16/2021

Client: KLM Environmental, LLC
 Project Name: QP-19
 Workorder: 2103D91

ANALYTICAL QC SUMMARY REPORT

BatchID: 311924

Sample ID: MB-311924	Client ID:					Units: ug/L	Prep Date: 03/15/2021	Run No: 449210			
SampleType: MBLK	TestCode: MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011					BatchID: 311924	Analysis Date: 03/15/2021	Seq No: 10254925			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,2-Dibromoethane BRL 0.020
 Surr: 4-Bromofluorobenzene 5.960 0 5.000 119 70 130

Sample ID: LCS-311924	Client ID:					Units: ug/L	Prep Date: 03/15/2021	Run No: 449210			
SampleType: LCS	TestCode: MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011					BatchID: 311924	Analysis Date: 03/15/2021	Seq No: 10254926			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,2-Dibromoethane 0.09900 0.020 0.1000 99.0 60 140
 Surr: 4-Bromofluorobenzene 5.856 0 5.000 117 70 130

Sample ID: LCSD-311924	Client ID:					Units: ug/L	Prep Date: 03/15/2021	Run No: 449210			
SampleType: LCSD	TestCode: MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011					BatchID: 311924	Analysis Date: 03/15/2021	Seq No: 10254927			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,2-Dibromoethane 0.09800 0.020 0.1000 98.0 60 140 0.09900 1.02 15.6
 Surr: 4-Bromofluorobenzene 5.667 0 5.000 113 70 130 5.856 0 0

Sample ID: 2103D86-001BMS	Client ID:					Units: ug/L	Prep Date: 03/15/2021	Run No: 449210			
SampleType: MS	TestCode: MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011					BatchID: 311924	Analysis Date: 03/15/2021	Seq No: 10254933			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,2-Dibromoethane 0.09742 0.020 0.1004 97.0 70 131
 Surr: 4-Bromofluorobenzene 5.755 0 5.022 115 73.6 140

Sample ID: 2103D86-002BDUP	Client ID:					Units: ug/L	Prep Date: 03/15/2021	Run No: 449210			
SampleType: DUP	TestCode: MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011					BatchID: 311924	Analysis Date: 03/15/2021	Seq No: 10254938			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,2-Dibromoethane BRL 0.020 0 0 30

Qualifiers: > Greater than Result value < Less than Result value B Analyte detected in the associated method blank
 BRL Below reporting limit E Estimated (value above quantitation range) H Holding times for preparation or analysis exceeded
 J Estimated value detected below Reporting Limit N Analyte not NELAC certified R RPD outside limits due to matrix
 Rpt Lim Reporting Limit S Spike Recovery outside limits due to matrix

Client: KLM Environmental, LLC
Project Name: QP-19
Workorder: 2103D91

ANALYTICAL QC SUMMARY REPORT

BatchID: 311924

Sample ID: 2103D86-002BDUP	Client ID:	Units: ug/L				Prep Date: 03/15/2021	Run No: 449210				
SampleType: DUP	TestCode: MICRO-EXTRACTABLE VOLATILE ORGANICS SW8011	BatchID: 311924				Analysis Date: 03/15/2021	Seq No: 10254938				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Surr: 4-Bromofluorobenzene	6.007	0	5.050		119	73.6	140	6.236	0	0	
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Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: KLM Environmental, LLC
 Project Name: QP-19
 Workorder: 2103D91

ANALYTICAL QC SUMMARY REPORT

BatchID: 312338

Sample ID: MB-312338	Client ID:					Units: ug/L	Prep Date: 03/19/2021	Run No: 449728			
SampleType: MBLK	TestCode: Volatile Organic Compounds by GC/MS	SW8260D				BatchID: 312338	Analysis Date: 03/19/2021	Seq No: 10269119			
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

1,2-Dichloroethane	BRL	1.0									
Benzene	BRL	1.0									
Ethylbenzene	BRL	1.0									
Methyl tert-butyl ether	BRL	1.0									
Naphthalene	BRL	5.0									
Toluene	BRL	1.0									
Xylenes, Total	BRL	1.0									
Surr: 4-Bromofluorobenzene	52.12	0	50.00		104	70	130				
Surr: Dibromofluoromethane	51.84	0	50.00		104	70	130				
Surr: Toluene-d8	50.38	0	50.00		101	70	130				

Sample ID: MB-312338	Client ID:				Units: ug/L	Prep Date: 03/19/2021	Run No: 449728				
SampleType: MBLK	TestCode: Oxygenates	SW8260D	BatchID: 312338			Analysis Date: 03/19/2021	Seq No: 10269561				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

3,3-Dimethyl-1-butanol	BRL	100									
Ethanol	BRL	100									
Ethyl tert-butyl ether	BRL	100									
Isopropyl ether	BRL	10									
tert-Amyl alcohol	BRL	100									
tert-Amyl methyl ether	BRL	10									
tert-Butyl Alcohol	BRL	100									
tert-Butyl formate	BRL	100									

Sample ID: LCS-312338	Client ID:				Units: ug/L	Prep Date: 03/19/2021	Run No: 449728				
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS	SW8260D	BatchID: 312338			Analysis Date: 03/19/2021	Seq No: 10269187				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: KLM Environmental, LLC
 Project Name: QP-19
 Workorder: 2103D91

ANALYTICAL QC SUMMARY REPORT

BatchID: 312338

Sample ID: LCS-312338	Client ID:					Units: ug/L	Prep Date: 03/19/2021	Run No: 449728			
SampleType: LCS	TestCode: Volatile Organic Compounds by GC/MS	SW8260D		BatchID: 312338		Analysis Date: 03/19/2021	Seq No: 10269187				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

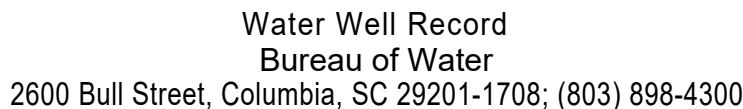
1,2-Dichloroethane	22.19	1.0	20.00		111	70	130				
Benzene	21.49	1.0	20.00		107	70	130				
Ethylbenzene	20.90	1.0	20.00		104	70	130				
Naphthalene	17.99	5.0	20.00		90.0	70	130				
Toluene	20.72	1.0	20.00		104	70	130				
Xylenes, Total	60.97	1.0	60.00		102	70	130				
Surr: 4-Bromofluorobenzene	52.25	0	50.00		104	70	130				
Surr: Dibromofluoromethane	51.84	0	50.00		104	70	130				
Surr: Toluene-d8	51.53	0	50.00		103	70	130				

Sample ID: LCS-312338	Client ID:				Units: ug/L	Prep Date: 03/19/2021	Run No: 449728				
SampleType: LCS	TestCode: Oxygenates	SW8260D	BatchID: 312338			Analysis Date: 03/19/2021	Seq No: 10269717				
Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual

3,3-Dimethyl-1-butanol	575.3	100	500.0		115	70	130				
Ethanol	464.6	100	500.0		92.9	70	130				
Ethyl tert-butyl ether	BRL	100	100.0		93.2	70	130				
Isopropyl ether	99.11	10	100.0		99.1	70	130				
tert-Amyl alcohol	565.4	100	500.0		113	70	130				
tert-Amyl methyl ether	93.90	10	100.0		93.9	70	130				
tert-Butyl Alcohol	523.6	100	500.0		105	70	130				
tert-Butyl formate	516.5	100	500.0		103	70	130				

Qualifiers:	>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
	BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
	J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
	Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

End of Report



DHEC 1903 (07/2003) COPY I MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

Mark Lee Keller

From: tickets@sc1pups.org
Sent: Wednesday, March 3, 2021 6:09 AM
To: MKELLER131@COMCAST.NET
Subject: SC811 2103030012 Normal Ticket

SC811 NOTICE INFORMATION

SC811 Notice Number: 2103030012 Old Number:
Notice Type: Normal Created By: AOK

Created On: 03/03/21 06:09 AM Update On: 03/24/2021
Locate Date: 03/08/21 11:59 PM Good Through: 03/29/2021
Work Date: 03/08/21 11:59 PM

CALLER INFORMATION

KLM ENVIRONMENTAL, LLC
PO BOX 2704
GOOSE CREEK, SC 29445
Caller: Mark Keller Phone: (843) 870-4285 Ext:
Caller Email: MKELLER131@COMCAST.NET

SITE CONTACT INFORMATION:

Site Contact Name: Mark Keller Phone: (843) 870-4285 Ext:
Site Contact Email: MKELLER131@COMCAST.NET
CallBack: 8438704285

EXCAVATION INFORMATION:

Work Type: BORING
Work Done By: KLM Environmental Duration: 1 day
Work Done For: SCDHEC

County: GREENWOOD Place: GREENWOOD
Street: 1802 MAIN ST S
Intersection: FOUNDRY ROAD
Subdivision:

Explosives: No | Premark: No | Drilling/Boring: Yes | Near Railroad: No

INSTRUCTIONS: MARK THE ENTIRE PROPERTY // EXTRA INSTRUCTIONS: MARK ENTIRE PROPERTY.
TANK IS
LEAKING. MUST LOCATE UTILITY LINES TO INCLUDE WATER LINES

DIRECTIONS: Site is Quick Pantry 19 Gas station

REMARKS:

MEMBER UTILITIES NOTIFIED:

Member Code: EMBZ11
Member Name: Centurylink formerly Embarq - EMBZ11
Locate Contact: Cal Horton (843) 670-7121
Damage Contact: Not Provided

Member Code: GWC38
Member Name: Greenwood CPW
Locate Contact: ERIC SMITH (864) 377-2132
Damage Contact: None Provided GWC38 (864) 942-8117

Member Code: GMD22
Member Name: Greenwood Metropolitan District
Locate Contact: Not Provided
Damage Contact: Not Provided

Member Code: SGRAZ01
Member Name: Segra Communications - SGRAZ01
Locate Contact: Kevin Comalander (803) 726-8318
Damage Contact: Not Provided

Member Code: WFL30
Member Name: WC Fiber, LLC
Locate Contact: BRANDON WILSON (864) 391-6071
Damage Contact: BRANDON WILSON (864) 391-6071

DISCLAIMERS:

Color Code marking used by SC811 facility members are:
Red - Electric Yellow - Gas Orange - Communication, Telephone, Cable TV Blue - Water Green - Sewer

Member facility operators only mark the underground utility lines they install and maintain.
Some utilities on the property are considered private facilities and may not be located.
For a list of private locators who can assist please visit <https://www.sc811.com/resources/membership/private-locators/>

By South Carolina state law member operators have 3 full working days excluding the day the ticket is created, weekends and holidays to respond.

You may proceed with your work after all member operators have positively responded.
You can check the member responses by contacting SC811 or using our online portal.
If you need a portal account, someone at our help desk can assist you.

Once all excavation has been completed you are responsible for closing out your notice.

Again, you can contact SC811 or utilize the portal.

Per the 2012 state law 'Tolerance zone' means:

- (a) if the diameter of the facility is known, the distance of one-half of the known diameter plus twenty-four inches on either side of the designated center line;
- (b) if the diameter of the facility is not marked, twenty-four inches on either side of the outside-edge of the mark indicating a facility; or
- (c) for subaqueous facilities, a clearance of fifteen feet on either side of the indicated facility.

When the excavation site cannot be clearly and adequately identified within the area described in the notice, the excavator must designate the route, specific area to be excavated, or both, by pre-marking before the operator performs a locate. Pre-marking must be made with white paint, flags or stakes.

If any damage result from excavation or demolition where the damage results in the escape of any flammable, toxic, or corrosive gas or liquid, or electricity or endangers life, health or property, immediately notify emergency services, including 911, the notification center and the operator, if known.

Remember: If this involves a damage, please contact the facility owner/operator and fill out your damage report on

The information contained in this message may be CONFIDENTIAL and is for the intended addressee only. Any unauthorized use, including copying, review, distribution and disclosure of this information is prohibited.

If you are not the intended addressee, please notify PUPS/SC811 at (800) 290-2783 press 1 and delete this message.

Please do not reply to this ticket, questions concerning this locate request contact (888) 721-7877



UNDERGROUND STORAGE TANK MANAGEMENT DIVISION
TANK TIGHTNESS TESTING FORM
This form can be used to comply with UST Control Regulations R61.92, Section 280.34

UST Facility		Person Conducting Test	
Facility ID# 04785	Facility Name Quick Pantry 19	Tester's Name Michael Moon	Phone Number 8642881265
Physical Address 1802 S. Main St.		Testing Company BLE	
City Greenwood	State Sc	Tester Certified by Purpora Eng	
Owner Phone Number 8642271561		Tester Certification #: Cad56603	Expiration Date 2/5/23

System Information and Testing Requirements

This form must be completed and included with the complete test data. Test data must include appropriate testing protocols as outlined by the manufacturer of the testing methodology. It must include waiting time between deliveries and testing, start and end time, and calculated leak rate. The tank testing method shall have been evaluated by an independent testing laboratory and demonstrated to meet the leak detection rate criteria. The tightness test shall be capable of detecting a leak rate of 0.10 gallons per hour with the probability of detection of 0.95 and a probability of false alarm of 0.05.

Purpose of Test ☐ New Installation ☒ In response to a Notice of Alleged Violation ☐ Leak Investigation ☐ As required by SCDHEC ☐ Other: _____

Description	Tank # 1	Tank #	Tank #	Tank #	Tank #	Tank #
Product Stored	Rul					
Tank Capacity	5k					
Tank Construction	<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Steel Clad <input type="checkbox"/> Fiberglass	<input type="checkbox"/> Steel <input type="checkbox"/> Steel Clad <input type="checkbox"/> Fiberglass	<input type="checkbox"/> Steel <input type="checkbox"/> Steel Clad <input type="checkbox"/> Fiberglass	<input type="checkbox"/> Steel <input type="checkbox"/> Steel Clad <input type="checkbox"/> Fiberglass	<input type="checkbox"/> Steel <input type="checkbox"/> Steel Clad <input type="checkbox"/> Fiberglass	<input type="checkbox"/> Steel <input type="checkbox"/> Steel Clad <input type="checkbox"/> Fiberglass

Tank Tightness Test Data Table

	Tank # 1	Tank #	Tank #	Tank #	Tank #	Tank #
Method Used (Estabrook, EZY 3 Locator, etc):	Alert Underfill					
Temperature Measuring Equipment and Method:	—					
Start Time:	225					
End Time:	415					
Start Pressure:	-1.5					
End Pressure:	-1.0					
Re-leveling Procedure Used:	—					
Groundwater Level and/or Water Sensors Used:	-					
Length of any waiting periods after product delivery, topping, or vapor space disturbances:	>4hrs					
Vapor Pocket Measurement and Elimination Procedure Used:	—					
Piping, Fittings, or Connections that were tightened or repaired:	Fill port adapter and cap					

Test Results

Note: Non passing test results must be reported to the Department within 24 hours.

Test Results	<input type="checkbox"/> Pass <input checked="" type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
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I hereby certify that all the information contained in this report is true, accurate, and in full compliance with legal requirements. Per SC Underground Storage Tank Regulations 61.92, 280.45 (b)(i), records of this testing must be kept until the next test. If this tank test is a result of repairs, Section 280.33(g) requires that the repair records be kept until permanent closure or change in service of the UST system.

Tester's Signature: _____ Date: 2/22/21



Tank Tightness Testing for Underground Storage Tanks (USTs)

General Information:

The primary purpose of this form is to provide consistency in the tank tightness testing requirements as outlined by the South Carolina Underground Storage Tank Regulations 61-92.

Please type or print in ink. Also, please be sure that you have signatures in ink.

Who must complete this form?

Any person or their authorized representative (such as a tester or contractor) that conducts tank tightness testing.

What USTs are included?

An UST system is defined as any one or combination of tanks that is used to contain an accumulation of regulated substances, and whose volume (including connected underground piping) is 10 percent or more beneath the ground. Regulated USTs store petroleum or hazardous substances. This includes UST systems with field-constructed tanks and airport hydrant fuel distribution systems.

What Tanks are Excluded from these Requirements?

- Tanks removed from the ground prior to January 1, 1986;
- Farm or residential tanks of 1,100 gallons or less used to store motor fuel for noncommercial purposes;
- Tanks storing heating oil for use on the premise being stored;
- Septic tanks;
- Certain pipeline facilities regulated under Chapters 601 and 603 of Title 49;
- Surface impoundments, pits, ponds, or lagoons;
- Storm water or wastewater collection systems;
- Flow-through process tanks;
- Liquid traps or associated gathering lines directly related to oil or gas production and gathering operations;
- Tanks on or above the floor of underground areas, such as basements or tunnels;
- Tanks with a capacity of 110 gallons or less;
- Wastewater treatment tank systems;
- UST systems containing radioactive materials that are regulated under the Atomic Energy Act of 1954;
- UST systems that are part of an emergency generator system at nuclear power generation facilities regulated by the Nuclear Regulatory Commission under 10 CFR part 50.

What Substances are Covered?

These requirements apply to USTs containing petroleum or certain hazardous substances. Petroleum includes gasoline, used oil, diesel fuel, crude oil, or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees F and 14.7 pounds per square inch absolute). Hazardous substances are those found in Section 101 (14) of the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) of 1980 with the exception of those substances regulated as hazardous waste under Subtitle C of the Resource Conservation and Recovery Act (RCRA).

Instructions for Completing the Tank Testing Form:

UST Facility Information: Enter name and complete address of the facility, the permit identification number for the facility, and the owner phone number.

Person Conducting the Test: Enter the tester's name and their company including the city and state from which they operate and their certification information.

System Information and Testing:

- 1) Purpose of the test: Indicate by checking the box why the test was being conducted
- 2) Provide the details regarding the tanks being tested to include product, capacity and construction.

Tank Tightness Test Data Table: Please provide all of the details regarding the methodology for the tank(s) being tested.

Test Results: Check if the tank(s) tested passed or failed.

Comments: Add any comments or notes, particularly if there were any failing results.

Testers Signature: The person conducting the test must sign and date the test.

Office Mechanics and Filing: After completing the form, retain a copy in your files for review during your annual compliance inspection. If this is completed in response to an inspection, please forward it to the Department for review. It will become part of your permanent file.

Contact Information: Please contact the UST Division at (803) 898-0589 for further information.



VIA FIRST CLASS AND CERTIFIED MAIL
Article No. 9214 8969 0099 9790 1419 0411 86

February 22, 2021

Bahuchar Mata, LLC
311 Oakmonte Circle
Greenwood, South Carolina 29649

Re: Proposed Consent Order Number 21-0041-UST
Quick Panry 19
1802 South Main Street, Greenwood, South Carolina 29646
UST Permit # 04785

Dear Sir or Madam:

Enclosed is the Consent Order, as referenced above, which is proposed in order to correct noncompliance with Notice(s) of Alleged Violation(s) for this facility.

Please review this proposed Consent Order and if acceptable, sign and date on the last page and promptly return the entire Consent Order to me by no later than **March 8, 2021**, at the following address:

SCDHEC - BLWM
Enforcement Section
Attn: Thomas O'Neal
2600 Bull Street
Columbia, SC 29102

Failure to return the signed Consent Order to me by no later than **March 8, 2021**, or to reach an agreement concerning the terms of the Consent Order, will likely result in the issuance of an Administrative Order without your consent. An Administrative Order would likely contain additional penalties.

Please include the facility identification number (04785) on any correspondence that you send.

This correspondence is being sent to you by first class mail and certified mail to better ensure delivery. If it is your desire to schedule an enforcement conference to discuss this matter further, or if you have any questions please call Thomas O'Neal at (803) 898-0477 or email them to onealtc@dhec.sc.gov.

Sincerely,

Thomas O'Neal
Division of Compliance and Enforcement
Bureau of Land and Waste Management
Enclosures: Proposed Consent Order # 21-0041-UST

**IN THE STATE OF SOUTH CAROLINA
BEFORE THE DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
(DEPARTMENT)**

**IN RE: BAHUCHAR MATA, LLC
QUICK PANTRY 19 (FACILITY)
PERMIT NUMBER 04785
GREENWOOD COUNTY**

**CONSENT ORDER
21-0041-UST**

This Consent Order is entered into between the Department and Bahuchar Mata, LLC to resolve the violations presented herein regarding the South Carolina Underground Storage Tank Control Regulations, 7 S.C. Code Ann. Regs. 61-92 (2012 & Supp. 2019) (Regulations), and the State Underground Petroleum Environmental Response Bank Act of 1988 (SUPERB Act), S.C. Code Ann. §§ 44-2-10 et seq. (2018).

FINDINGS OF FACT

1. Bahuchar Mata, LLC owns and operates underground storage tanks (USTs) as defined in the SUPERB Act. The USTs, located at 1802 South Main Street, Greenwood, South Carolina, Permit Number 04785, are currently under Delivery Prohibition in accordance with R. 61-92. Section 280.26.
2. On October 2, 2020, the Department received notice of petroleum odor along Foundry Road.
3. On October 23, 2020, the Greenwood Fire Department discovered petroleum product in the creek leading to Foundry Road. This creek is located down gradient of Quick Pantry 19.
4. On October 30, 2020, the Department conducted an inspection and issued a Notice of Alleged Violation (NOAV) citing Bahuchar Mata, LLC with the following violations:

- a. Failure to provide records to the Department upon request, in that Bahuchar Mata, LLC did not provide monthly release detection methods for the 4000-gallon regular unleaded UST to the Department on request;
- b. Failure to provide adequate release detection method, in that the automatic tank gauge (ATG) for the 4000-gallon regular unleaded UST was not operational; and,
- c. Failure to report a suspected release, in that Bahuchar Mata, LLC failed to notify the Department of a suspected release after petroleum fumes were detected down gradient from the Facility.

The Department gave Bahuchar Mata, LLC a thirty (30) day grace period, from the date of the NOAV, to comply. Bahuchar Mata, LLC did not respond and failed to comply.

5. On October 30, 2020, the Department sent a letter (Place to Bahuchar Mata, LLC), notifying them that the Department received notice of petroleum odor along Foundry Road and that the Greenwood Fire Department discovered petroleum product down-gradient of the Facility. The letter requested that Bahuchar Mata, LLC collect a groundwater sample between the UST and the creek. The Department provided the deadline of November 30, 2020. The certified mail receipt was delivered on November 2, 2020.
6. On December 2, 2020, the Department sent a letter (Cathcart to Bahuchar Mata, LLC) via certified mail informing Bahuchar Mata, LLC of the future implementation of Delivery Prohibition against the USTs at the Facility if the October 30, 2020 violations were not rectified. The Department gave Bahuchar Mata, LLC a fifteen (15) day grace period from the date of the letter to comply. The certified mail receipt was delivered on December 5, 2020. Delivery Prohibition was implemented on December 18, 2020.
7. As of February 22, 2021, Bahuchar Mata, LLC has failed to provide the requested documentation.

APPLICABLE STATUTES:

S.C. Code Ann. § 44-2-140(A) (2018), provides that the Department may issue orders requiring compliance and may assess civil penalties for violations of the above laws and regulations.

S.C. Code Ann. § 44-2-140(B) (2018), provides that the Department may assess a civil penalty not to exceed ten thousand dollars for each tank for each day of violation.

CONCLUSIONS OF LAW:

Based on the above findings, the Department concludes that Bahuchar Mata, LLC has violated the following:

R.61-92, Section 280.34(c) (2012 & Supp. 2019), in that Bahuchar Mata, LLC failed to provide the Department with records upon request.

R.61-92, Section 280.40(a) (2012 & Supp. 2019), in that Bahuchar Mata, LLC failed to provide an adequate release detection method.

R.61-92, Section 280.40(a)(2) (2012 & Supp. 2019), in that Bahuchar Mata, LLC failed to properly maintain release detection equipment.

R.61-92, Section 280.43(d) (2012 & Supp. 2019), in that Bahuchar Mata, LLC failed to conduct proper release detection using an automatic tank gauge.

R.61-92, Section 280.45(b)(1) (2012 & Supp. 2019), in that Bahuchar Mata, LLC failed to maintain records for at least one (1) year.

R.61-92, Section 280.50 (2012 & Supp. 2019), in that Bahuchar Mata, LLC failed to report a suspected release.

R.61-92, Section 280.51 (2012 & Supp. 2019), in that Bahuchar Mata, LLC failed to determine if the underground storage tank is the source of off-site impacts.

R.61-92, Section 280.52 (2012 & Supp. 2019), in that Bahuchar Mata, LLC failed to investigate and confirm a suspected release within a reasonable time.

NOW, THEREFORE IT IS ORDERED AND AGREED with the consent of Bahuchar Mata, LLC and pursuant to the Regulations and the SUPERB Act that Bahuchar Mata, LLC shall:

1. Within forty-five (45) days of the execution date of the Order:
 - a. Conduct a tank tightness test and submit a current passing ATG test for the 4000-gallon regular unleaded UST; and,
 - b. Install a groundwater sampling monitoring well between the 4000-gallon regular unleaded UST and the adjacent creek and submit a groundwater sampling report.
2. Within forty-five (45) days of the execution date of the Order, pay a civil penalty in the amount of seven thousand dollars (**\$7,000.00**) for the violations cited herein.

The payment of the penalty amount must be in the form of a check payable to SCDHEC with the number of the Order (21-0041-UST) and Permit Number (04785) written on the check. All communication regarding this Order and its requirements shall be addressed to:

SCDHEC – BLWM
Division of Compliance and Enforcement
Enforcement Section
Attn: Thomas O’Neal
2600 Bull Street, Columbia, SC 29201-1708

IT IS FURTHER ORDERED AND AGREED that this Consent Order governs only the civil liability to the Department for civil sanctions arising from the matters set forth herein and constitutes the entire agreement between the Department and Bahuchar Mata, LLC with respect to the resolution

and settlement of these civil matters. The parties are not relying upon any representations, promises, understandings, or agreements except as expressly set forth within this Order.

Any violation of the provisions of this Order shall be deemed a violation of the Regulations and the SUPERB Act. Upon ascertaining any such violation, the Department may initiate action to obtain compliance with this Order, the Regulations, and the Act.

(Signature page follows)

**FOR THE SOUTH CAROLINA DEPARTMENT
OF HEALTH AND ENVIRONMENTAL CONTROL**

Myra C. Reece
Director of Environmental Affairs

Date: _____

Henry J. Porter, Chief
Bureau of Land and Waste Management

Date: _____

Van Keisler, P.G., Director
Division of Compliance and Enforcement

Date: _____

Reviewed by: Attorney
Office of General Counsel

Date: _____

WITH CONSENT – BAHUCHAR MATA, LLC

(Signature)

Date: _____

(Please clearly print name and title)

CD's Information

Date Received: 4/19/21

Permit Number: # 04785

Project Manager: Carlin Beilly

Contractor: KLM Environmental

Description: Containment Boom Install

Docket Number: 8T Initials: _____

Scanned by: _____

Verified by: _____



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

April 14, 2021

SCDHEC - USTMD
2600 Bull Street
Columbia, SC 29201
Attn: Caitlin Reilly

Re: Quick Pantry # 19; UST # 04785

Ms. Reilly:

This letter is being sent to document the installation of the containment booms as approved in the directive dated April 6th, 2021 sent to Bahuchar Mata, LLC. Upon approval of the work plan to install containment booms along the affected creek and drainage area, KLM ordered the approved materials which were delivered on April 8th, 2021. On April 12th, 2021 KLM personnel mobilized to the site to install the containment booms as approved. Each boom was staked on each end, and two booms were utilized near the suspected intersection point of the release and the creek. A figure is attached identified as Figure 1 showing the locations of 14 areas utilized for this initial step. Figures 2 through Figure 4 show the booms as placed in reference to the map locations. KLM will continue to monitor these booms as separate site visits are performed for other tasks, to consolidate site mobilization as much as possible. The saturation levels in the booms should indicate where the intersection point is, approximately, in relation to the creek area. This knowledge will assist us in delineation work once site access has been granted by the property owner. If significant saturation is observed, KLM will execute, with your approval, the second part of the approved work plan and replace the booms to continue to protect the downstream areas.

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

Sincerely,

KLM Environmental, LLC

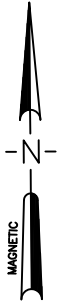
Mark L. Keller, PG
President

LEGEND

BOOM LOCATION



Disclaimer: Map and parcel data are believed to be accurate, but accuracy is not guaranteed. This is not a legal document and should not be substituted for a title search, appraisal, survey, or for





Boom Location # 1



Boom Location # 2



Boom Location # 3



Boom Location # 4



Boom Location # 5



Boom Location # 6



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

Figure 2
Photographs
Quick Pantry # 19
Greenwood, SC
UST # 04785 4/12/21



Boom Location # 7



Boom Location # 8



Boom Location # 9



Boom Location # 10



Boom Location # 11



Boom Location # 12



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

Figure 3
Photographs
Quick Pantry # 19
Greenwood, SC
UST # 04785 4/12/21



Boom Location # 13



Boom Location # 14



KLM Environmental, LLC

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

Figure 4
 Photographs
 Quick Pantry # 19
 Greenwood, SC
 UST # 04785 4/12/21

- Boom floats at surface for easy retrieval, even when saturated
- Absorbs and retains oils and oil-based liquids - including lubricants, fuels and crude oil - without absorbing a drop of water
- Strong, zinc-plated carbon steel attachment clips and rings allow you to link booms together
- Bright white color makes boom easier to see in outdoor environments and clearly shows saturation level
- Can be incinerated after use to reduce waste or for fuels blending

Specifications

Fluid Absorbed	Oils, Fuels, Other Oil-Based Liquids Only
Color	White
Dimensions	ext. dia. 5" x 20' L
Absorbency	Up to 24 gal. per bag
Absorbency per	Up to 12 gal. per boom
Brand	PIG
Clip/Ring	Zinc Plated Carbon Steel
Filler	Polypropylene
Skin/Outer Mesh	Outer Mesh - Polyester
Sold as	2 booms per bag
Weight	15.3 lbs.
# per Pallet	8
Application	Spill Response
UNSPSC	47131907
Pigalog® Page Number	Page 60

Re: UST # 04785

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

Tue 4/20/2021 9:58 AM

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

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

Good morning Mark,



Thank you for the update on the property accesses and I will keep an eye out for those reports. Please let me know if there is anything I can help you with going forward!

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 [Facebook](#) [Twitter](#)



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

Sent: Monday, April 19, 2021 7:16 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,

I wanted to update you on the access agreements. We have received signed access agreements from the City of Greenwood which owns the former Foundry site, the Housing Authority, and the next door property to Quick Pantry # 19. It's the property behind the store when facing the store. We have not received any response from the Smith's who own the property across the street. I send them a followup email last week on Thursday requesting an update. I did not get a response. I called Mr. Ronney Smith this evening at 7:00 but did not reach him. I left him a message requesting an update on the access. I will follow up with you tomorrow if I do not hear back from him. I will also submit the AFVR report for the first two events. We will be requesting more events based on the recovery rates.

Thanks

Mark

Mark L. Keller, PG
President

 KLM Environmental, LLC

PO Box 2704

Goose Creek, SC 29445

843-870-4285 Cell

21547



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

April 6, 2021

Housing Authority of the City of Greenwood
 PO Box 973
 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 properties have 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 properties are down Foundry Road in close proximity to the target site, and are listed as PIN # 685555128 and PIN # 6855550186. These are the current locations of a housing project and the John Lamb Community Center, respectively. In order to ensure your properties are 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: Patrick Prince Signature: [Handwritten Signature]

Phone Contact: 864-993-1562

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



KLM Environmental, LLC

Phase I Phase II Underground Storage Tanks Soil & Water Sampling Well Installation
PO Box 2734
Goose Creek, SC 29445
843-870-4285 Phone
843-797-1893 Fax

April 6, 2021

Darrell L. Smith
6272 Hwy 184 E
Greenwood, SC 29638

Property Manager

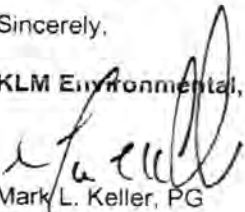
I am writing to you to inform you that assessment activities to include temporary groundwater screening locations and the installation of monitoring wells on your property has been requested by the South Carolina Department of Health and Environmental Control (SCDHEC) in reference to the Quick Pantry # 19 convenience store located at 1802 Main Street South, Greenwood, SC. Your property is next door and is listed as PIN # 6855410173. 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: DARRELL L. SMITH Signature 

Phone Contact: 864-378-0051

Yes

()

No

☒

Do you have or have you ever had an irrigation well installed on this property?

()

☒

Do you have or have you ever had a drinking supply well installed on this property?



KLM Environmental, LLC

Phase I-Phase II Underground Storage Tanks Soil & Water Sampling Well Installation
PO Box 2734
Goose Creek, SC 29545
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

Phone Contact:

(864) 942-8411 (C) (313) 370-2777

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?

Re: UST #04785 Abatement Actions

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

Thu 4/15/2021 3:55 PM

To: mkeller131@comcast.net <mkeller131@comcast.net>; Reilly, Caitlin M. <reillycm@dhec.sc.gov>

Cc: mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>

Thank you so much for sharing these, Mark, it is extremely informative.

Caitlin is reviewing the file for 04784 to see if there are any other helpful figures (old UST configuration, etc).

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 [Facebook](#) [Twitter](#)



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

Sent: Thursday, April 15, 2021 3:47 PM

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

Cc: mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>

Subject: RE: UST #04785 Abatement Actions

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

We have the Aerial Decade Package back. It is too large to send in one email so I will send it in two separate email. Many of the maps are not clear enough to use. However, if you look at the map from 1981 and the one from 1964, it appears there are AST's located where the Delta Map I sent yesterday shows the block wall containment area. The 1961 map shows the former Piedmont Fertilizer structure which is now rubble across from the Quick Pantry # 19 site. In the 1964 map, it appears a structure of some sort is present in the area I showed Ryan, Caitlin, and Malayika the dead growth and staining from what smells like diesel fuel. The second map set will follow this email.

Mark

Mark L. Keller, PG
President

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



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

Sent: Wednesday, April 14, 2021 5:05 PM

To: Thrash, Ashleigh <thrasham@dhec.sc.gov>; mkeller131@comcast.net

Cc: mikepatel8905@yahoo.com; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com; Ariail, Ryan D. <AriailRD@dhec.sc.gov>

Subject: Re: UST #04785 Abatement Actions

Mark,

Thank you for taking the time today to speak with Mihir, Ashleigh, and I. I really appreciate it and hope it helped clear up any miscommunications. As requested, here is a list of things we spoke about during our call this afternoon.

Attached is one report for the nearby Non-permitted Petroleum (NPP) site ID 18814 and one for UST permit number 04784. For NPP 18814, this is the IGWA report Mr. Smith's contractor Force & Associates, Inc. submitted on February 24, 2021 after the seepage in the creek was reported to DHEC. For UST 04784, I have attached the last sampling report performed by KLM received February 22, 2007 before it was CNFA'd in 2007 that includes a map with all the monitoring wells associated with this release. If you need more information or copies of other reports just let me know.

I have approved all abatement and on-site assessment work for UST 04785 thus far, except for any off-site work as you requested. Please let me know if you need me to approve the off-site work or any further abatement work at this time and I will get the Notice to proceed letters and updated cost agreements sent via email and a hard copy put in the mail. If you would like to request any additional abatement work that has not already been submitted for approval, we will review any plans and cost proposals quickly.

Regarding any contact information for adjacent property owners, DHEC is happy to provide you all information that is available in our files. As previously offered, DHEC can provide a letter to you and your client in order for you to be able to provide additional information to offsite property owners. We are also happy to be present on-site or via conference call to provide additional information to offsite property owners, if necessary.

Regarding potential unknown sources, DHEC is not aware of any additional sources beyond what is mentioned in our files (UST 04785, 04784, NPP 18814). As you are aware, the VCC site across the street is ongoing and we will continue to facilitate communication between that program as necessary.

Regarding SUPERB payment, as discussed today, The SUPERB fund cannot pay for assessments to determine if a release has occurred or the investigation and cleanup of any release other than a release of petroleum or petroleum products from a UST in accordance with R.61-98., The State Underground Petroleum Environmental Response Bank (SUPERB) Site Rehabilitation and Fund Access Regulation. If you encounter anything that may encompass the above scenarios while completing assessment for the release at UST 04785, please give me a call right away and we will coordinate to figure out the next course of action. As stated during the call, any work performed prior to the discovery will still be covered under the SUPERB monies.

Thank you for providing me with plat maps and I can't wait to see what the old aerial maps you've ordered tell us. Please call me if you need any assistance.

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 [Facebook](#) [Twitter](#)



From: Thrash, Ashleigh <thrasham@dhec.sc.gov>
Sent: Wednesday, April 14, 2021 4:45 PM
To: mkeller131@comcast.net <mkeller131@comcast.net>
Cc: Reilly, Caitlin M. <reillycm@dhec.sc.gov>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>
Subject: Re: UST #04785 Abatement Actions

Sorry for emailing back to back - I found this email from Michael Hayes from the fifth that has some additional info:

Hey Ashleigh,

I called Rett Templeton (864-942-8556), Greenwood County Engineer, and he stated the county does not own any infrastructure (including the stormwater pipes) in that area. The roads belong to SCDOT per his records. He believes the current property owner would own the pipe running through 201 Foundry Road. Mr. Templeton referred me to the deed to see if anything was referenced. He was going to look a little deeper and get back with me.

I called Brian Waldrep (864-942-3901) with Greenwood Metro (sewer provider) and he stated that neither they nor Greenwood CPW own the stormwater pipes. Mr. Waldrep also believes that current property owner would own the pipe running through 201 Foundry Road. Mr. Waldrep will contact me when they have the results back. Greenwood Metro did pull samples from their manholes near the Quick Pantry and New York Ct. to ensure no product had gotten into their system.

I contacted Greenwood County SCDOT (864-227-6971) and spoke with John Timmerman. Mr. Timmerman has requested I meet him on the property today at 1:30 to discuss further. I'll update you after meeting with SCDOT.

Thanks,
Michael

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 [Facebook](#) [Twitter](#)



From: Mark Keller <mkeller131@comcast.net>
Sent: Wednesday, April 14, 2021 4:28 PM
To: Thrash, Ashleigh <thrasham@dhec.sc.gov>
Cc: Reilly, Caitlin M. <reillycm@dhec.sc.gov>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>
Subject: Re: UST #04785 Abatement Actions

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Can you indicate where they collected this sample? It would seem to me then that the City of Greenwood now owns the drain system as it runs down the length of their property formerly occupied by the foundry.

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 Apr 14, 2021, at 4:02 PM, Thrash, Ashleigh <thrasham@dhec.sc.gov> wrote:

All, I just got an update from our regional office re: the storm sewer. Attached is the report of samples greenwood metro took.

Michael Hayes from our regional office also heard back from SCDOT and they do not believe the storm sewer is owned by them. Attached is the sampling report. They believe it is owned by the current property owner.

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 [Facebook](#) [Twitter](#)



From: Thrash, Ashleigh <thrasham@dhec.sc.gov>
Sent: Wednesday, April 14, 2021 3:21 PM
To: mkeller131@comcast.net <mkeller131@comcast.net>; Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Cc: mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>;
Ariail, Ryan D. <AriailRD@dhec.sc.gov>
Subject: Re: UST #04785 Abatement Actions

Thank you, Mark!

If not sent along with the report, please make sure that the signed invoice along with notarized proof of payment is sent so that we can apply costs toward the deductible swiftly.

We appreciate your help in moving this project forward and let us know if there is anything else we can do to help.

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 [Facebook](#) [Twitter](#)



From: Mark Lee Keller <mkeller131@comcast.net>
Sent: Wednesday, April 14, 2021 3:16 PM
To: Thrash, Ashleigh <thrasham@dhec.sc.gov>; Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Cc: mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>;
Ariail, Ryan D. <AriailRD@dhec.sc.gov>
Subject: FW: UST #04785 Abatement Actions

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

Please find attached the report for the installation of the booms on Monday, April 12th. I will send a copy of this by mail as well to the SCDHEC.

Thanks

Mark

Mark L. Keller, PG
President



KLM Environmental, LLC

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

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

Sent: Wednesday, April 14, 2021 2:41 PM

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

Cc: 'Reilly, Caitlin M.' <reillycm@dhec.sc.gov>; 'Mehta, Mihir' <mehtam@dhec.sc.gov>; 'shahpetroinc@yahoo.com' <shahpetroinc@yahoo.com>; 'mikepatel8905@yahoo.com' <mikepatel8905@yahoo.com>; 'Ariail, Ryan D.' <AriailRD@dhec.sc.gov>

Subject: RE: UST #04785 Abatement Actions

Please find attached the photographs requested in our phone conversation today. The blue jug is sitting on top of the well in each photo. The red arrow in the two photos indicates where the small AST is located. The photo showing tanks shows the heating oil tank laying on its side in the foreground, and the small AST against the building in the background.

Thanks

Mark

Mark L. Keller, PG
President



KLM Environmental, LLC

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

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

Sent: Wednesday, April 14, 2021 8:56 AM

To: mkeller131@comcast.net

Cc: Reilly, Caitlin M. <reillycm@dhec.sc.gov>; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com; mikepatel8905@yahoo.com; Ariail, Ryan D. <AriailRD@dhec.sc.gov>

Subject: Re: UST #04785 Abatement Actions

Can we do both? I believe if we have a call we can clarify your concerns and respond more appropriately. We are certainly more than happy to provide a written response either way.

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 [Facebook](#) [Twitter](#)



From: Mark Keller <mkeller131@comcast.net>

Sent: Wednesday, April 14, 2021 8:11 AM

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

Cc: Reilly, Caitlin M. <reillycm@dhec.sc.gov>; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>

Subject: Re: UST #04785 Abatement Actions

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

I would prefer a written response at this juncture if that is alright with everyone. I prefer some things go on record for this project as there are other factors at work here.

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 Apr 14, 2021, at 7:58 AM, Thrash, Ashleigh <thrasham@dhec.sc.gov> wrote:

Good morning Mark,

Can we have a call sometime today to discuss?

Please let me know and I will set up the conference line for us. Thank you!

Ashleigh

Get Outlook for iOS

From: Mark Lee Keller <mkeller131@comcast.net>
Sent: Tuesday, April 13, 2021 5:19:37 PM
To: Thrash, Ashleigh <thrasham@dhec.sc.gov>; Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Cc: Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>
Subject: RE: UST #04785 Abatement Actions

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

I would like to request the SCDHEC provide me with any information it has concerning the potential contaminants found in the vicinity of the Quick Pantry # 19 site. As discussed by telephone today, the SCDHEC will not pay for any work not associated with a petroleum release from a UST. It was indicated during the site visit yesterday, and from speaking with the property owner previously, that the SCDHEC has information concerning the sites in this area that has not been shared with KLM. While disappointing, it appears standard based on how work on this site has proceeded thus far. If we are working under threat of nonpayment for any work not associated with petroleum from a UST site, as was reiterated today, KLM requests all information be shared regarding contaminants from potential sources. If information exists we need that in advance to ensure all money and time spent performing any work at this location is SUPERB fund qualified. Wasting our resources tracking down information already known to the SCDHEC, such as finding contact information for the affected property owner who had already been in contact with your department on several occasions, is not an example of cooperation. We are requesting any records you have so we can be informed prior to conducting any additional field work. If necessary, we can file a Freedom of Information Request as a course of action in addition to other measures already undertaken.

Thank you

Mark L. Keller, PG
President

KLM Environmental, LLC

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

From: Thrash, Ashleigh <thrasham@dhec.sc.gov>
Sent: Friday, April 9, 2021 12:06 PM
To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>; mkeller131@comcast.net
Cc: Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com; mikepatel8905@yahoo.com; Ariail, Ryan D. <AriailRD@dhec.sc.gov>
Subject: Re: UST #04785 Abatement Actions

Hey All!

Just wanted to point out this is the **total approved amount with the additional AFVR**. We did an addendum to the original CA. Let us know if you have any questions!

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 [Facebook](#) [Twitter](#)



From: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Sent: Friday, April 9, 2021 12:04 PM
To: mkeller131@comcast.net <mkeller131@comcast.net>; Thrash, Ashleigh <thrasham@dhec.sc.gov>

Cc: Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>
Subject: Re: UST #04785 Abatement Actions

Mark,

Here is a copy of the NTP letter and approved cost agreement for the additional event, I will get a hard copy put in the mail this afternoon. Please let me know if there is anything else I can help you with and I will see you on site Monday afternoon.

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 [Facebook](#) [Twitter](#)



From: Mark Lee Keller <mkel131@comcast.net>
Sent: Friday, April 9, 2021 9:10 AM
To: Thrash, Ashleigh <thrasham@dhec.sc.gov>; Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Cc: Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>
Subject: RE: UST #04785 Abatement Actions

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Attached are the readings and emission calculations for the site currently. We have 108 gallons recovered as vapor, and 360 gallons as raw product. We can not gauge what is in the truck now as the event is ongoing. That is a total of 468 gallons recovered that we have documented thus far.

Please let me know if you are approving our work plan to conduct more events, or if we need to continue our scheduled work for next week.

Mark

Mark L. Keller, PG
 President

KLM Environmental, LLC

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

From: Thrash, Ashleigh <thrasham@dhec.sc.gov>
Sent: Thursday, April 8, 2021 3:09 PM
To: mkel131@comcast.net; Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Cc: Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>
Subject: Re: UST #04785 Abatement Actions

That is great news Mark, thank you for the update. Please let us know if you have any additional data tomorrow, and if you plan to go ahead and request another event in line with the original SSWP request and we can go ahead and start working on that if so.

I also don't have any updates related to the storm sewer. I will update you if I hear anything.

Let us know if there is anything else we can do to help!

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 [Facebook](#) [Twitter](#)



From: Mark Keller <mkeller131@comcast.net>
Sent: Thursday, April 8, 2021 2:52 PM
To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Cc: Thrash, Ashleigh <thrasham@dhec.sc.gov>; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>
Subject: Re: UST #04785 Abatement Actions

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Thank you Caitlin. We are in the field today. Yesterday we took the first load from QP 19 and the truck contained 360 gallons of gasoline. That is recovered product, not off gas amount. The event is working like we had hoped. I have never captured that much actual product, and that was only half way through the event. The off gas amount will only add to the total.

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 Apr 8, 2021, at 2:38 PM, Reilly, Caitlin M. <reillycm@dhec.sc.gov> wrote:

Hey Mark,

Here is a copy of the emergency assessment NTP letter and cost agreement, a hard copy will be placed in the mail this afternoon. As we discussed, this is just for the initial onsite assessment. Once the onsite assessment has been completed and off-site access agreements have been obtained the remainder of the work plan will be approved. Please let me know if you have any questions or need anything in the meantime.

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 [Facebook](#) [Twitter](#)



From: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Sent: Tuesday, April 6, 2021 2:13 PM
To: mkeller131@comcast.net <mkeller131@comcast.net>
Cc: Thrash, Ashleigh <thrasham@dhec.sc.gov>; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>
Subject: Re: UST #04785 Abatement Actions

Mark,

Here is a copy of the NTP letter and CA for the booms. I am still working on the assessment SSWP, is there any way you can give me a rough estimated on the footage and mobilization you will need for the onsite work? I can go ahead and get that portion approved while we wait on the access agreements for the offsite work.

Also, I am planning on making the site visit at the end of next week depending on when the booms are delivered but we can play it by ear.

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 [Facebook](#) [Twitter](#)



From: Mark Keller <mkeller131@comcast.net>
Sent: Tuesday, April 6, 2021 9:34 AM
To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Cc: Thrash, Ashleigh <thrasham@dhec.sc.gov>; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>
Subject: Re: UST #04785 Abatement Actions

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

We have a man on site 24 hours per day during the AFVR events. He is in a camper on site. You can visit anytime and he is familiar with the site actions. I won't be going myself until we get the containment booms delivered, then I will be on site doing the installation work. Maybe that will be a good time to meet with you and go over everything we will hopefully have by then which should be next week. Let me know if that works.

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 Apr 6, 2021, at 8:47 AM, Reilly, Caitlin M. <reillycm@dhec.sc.gov> wrote:

Good morning Mark,

I will get those changes made this morning and get you a copy shortly. Do you know of a good day this week to conduct a site visit?

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 [Facebook](#) [Twitter](#)



From: Mark Lee Keller <mkeller131@comcast.net>
Sent: Monday, April 5, 2021 8:21 PM
To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>
Subject: RE: UST #04785 Abatement Actions

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Caitlin,

You can reduce the approved cost on this. The booms are sold in packs of 2 so we only needed half as many as I originally thought. The cost for the booms is \$2,500.00. No shipping as Ashleigh said. The cost of the wooden stakes is \$43.92, no shipping. You can reduce the costs under Section R of the cost agreement I sent to these amounts, which is about half.

Thanks!

Mark

Mark L. Keller, PG
President

KLM Environmental, LLC

PO Box 2704
Goose Creek, SC 29445
843-870-4288 Cell

From: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Sent: Monday, April 5, 2021 4:59 PM
To: Thrash, Ashleigh <thrasham@dhec.sc.gov>; mkeller131@comcast.net; Mehta, Mihir <mehtam@dhec.sc.gov>
Cc: shahpetroinc@yahoo.com; mikepatel8905@yahoo.com; Ariail, Ryan D. <AriailRD@dhec.sc.gov>
Subject: Re: UST #04785 Abatement Actions

Hello Mark,

Here is a copy of the NTP letter for the boom installation, a hard copy will be going out in the mail tomorrow. Our finance department has already left for the day but the CA number on the letter can be used for tracking costs and I will get you a copy of the approved cost agreement breakdown tomorrow when they get in, a copy of this will also go out with the hard copy I put in the mail.

I will also be getting you a copy of the onsite emergency assessment NTP and cost agreement sometime tomorrow morning. Please let me know if you have any questions or need anything in the meantime.

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 [Facebook](#) [Twitter](#)



From: Thrash, Ashleigh <thrasham@dhec.sc.gov>
Sent: Monday, April 5, 2021 3:05 PM
To: mkeller131@comcast.net <mkeller131@comcast.net>; Mehta, Mihir <mehtam@dhec.sc.gov>
Cc: shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>; Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Subject: Re: UST #04785 Abatement Actions

Thanks for the update, Mark.

I spoke to Michael Hayes a few minutes ago and he updated me re: the investigation of the storm drainage piping investigation - I will update you once I know more there.

Caitlin is working on the boom SSWP approval (minus Shipping and handling, as we discussed) as well as the plan for onsite assessment that we discussed Friday. We should get those email copy to you and hard copy in the outgoing mail today. Caitlin will also be in touch regarding a good day to conduct a site visit.

Let us know if there is anything else we can do to help!

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 [Facebook](#) [Twitter](#)**From:** Mark Lee Keller <mkeller131@comcast.net>**Sent:** Monday, April 5, 2021 3:01 PM**To:** Thrash, Ashleigh <thrasham@dhec.sc.gov>; Mehta, Mihir <mehtam@dhec.sc.gov>**Cc:** shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>;Ariail, Ryan D. <AriailRD@dhec.sc.gov>; Reilly, Caitlin M. <reillycm@dhec.sc.gov>**Subject:** RE: UST #04785 Abatement Actions

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

We have made contact with one of the site owners. Mr. Brandon Smith. He owns the property we need to access along with his dad, Ronney Smith. Brandon's phone number is 864-223-4572. I am providing that for the project notes. My site personnel, Mr. Graham Robinson spoke with Brandon Smith by phone today regarding the installation of booms in the creek area. He gave verbal permission to proceed with that. I also have his email as speedwayexpresslube@gmail.com. They own and operate a car repair facility not far from the property. The Speedway Express Lube is located at 1436 Main Street, Greenwood, SC 29646. I will make email contact with Mr. Smith today as well.

Mark

 Mark L. Keller, PG
 President
KLM Environmental, LLC

PO Box 2704

Goose Creek, SC 29445

843-870-4285 Cell

From: Thrash, Ashleigh <thrasham@dhec.sc.gov>**Sent:** Monday, April 5, 2021 10:17 AM**To:** Mehta, Mihir <mehtam@dhec.sc.gov>; mkeller131@comcast.net**Cc:** shahpetroinc@yahoo.com; mikepatel8905@yahoo.com; Ariail, Ryan D. <AriailRD@dhec.sc.gov>; Reilly, Caitlin M.<reillycm@dhec.sc.gov>**Subject:** Re: UST #04785 Abatement Actions

Good Morning Mark,

Thanks again for chatting with us Friday. Hope you had a great weekend!

Chris McClusky is getting back to me on the contact with City of Greenwood. I thought I had written it down but I was mistaken.

Also, I'm attempting to set up a conference call with Angela Gorman who is the PM for the VCC on Foundry Road. Can you let me know some days/times that would be good for you this week?

Thank you!

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 [Facebook](#) [Twitter](#)**From:** Mehta, Mihir <mehtam@dhec.sc.gov>**Sent:** Friday, April 2, 2021 4:12 PM**To:** mkeller131@comcast.net <mkeller131@comcast.net>**Cc:** shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>;Ariail, Ryan D. <AriailRD@dhec.sc.gov>; Reilly, Caitlin M. <reillycm@dhec.sc.gov>; Thrash, Ashleigh<thrasham@dhec.sc.gov>; Mehta, Mihir <mehtam@dhec.sc.gov>**Subject:** Re: UST #04785 Abatement Actions

Mark, it was a pleasure talking with you this afternoon. Please feel to continue to engage with our project team throughout this process.

Thank you and have a great weekend.
Mihir

Mihir Mehta, P.E.
Director, UST Management Division
S.C. Dept. of Health & Environmental Control
Office: (803) 898-0623
Mobile: (803) 240-1998
Connect: www.scdhec.gov [Facebook](#) [Twitter](#)



From: Mark Lee Keller <mkeller131@comcast.net>
Sent: Friday, April 2, 2021 3:11 PM
To: Mehta, Mihir <mehtam@dhec.sc.gov>
Cc: shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>; Reilly, Caitlin M. <reillycm@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>
Subject: RE: UST #04785 Abatement Actions

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I am available for a call this afternoon after 3:30. Please give me a number to call in if that works as the last time trying to 3 way me in did not work.

Mark

Mark L. Keller, PG
President

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

From: Mehta, Mihir <mehtam@dhec.sc.gov>
Sent: Friday, April 2, 2021 9:42 AM
To: mkeller131@comcast.net
Cc: shahpetroinc@yahoo.com; mikepatel8905@yahoo.com; Ariail, Ryan D. <AriailRD@dhec.sc.gov>; Reilly, Caitlin M. <reillycm@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>; Mehta, Mihir <mehtam@dhec.sc.gov>
Subject: Re: UST #04785 Abatement Actions

Mark, good morning and hope you are doing well. Ashleigh, Ryan and I would like an opportunity to have a phone call conversation, preferably today, regarding this release. Please let us know a time convenient to you and we can set up a conference call.

Thank you
Mihir

Mihir Mehta, P.E.
Director, UST Management Division
S.C. Dept. of Health & Environmental Control
Office: (803) 898-0623
Mobile: (803) 240-1998
Connect: www.scdhec.gov [Facebook](#) [Twitter](#)



From: Mark Lee Keller <mkeller131@comcast.net>
Sent: Thursday, April 1, 2021 7:07 PM
To: Thrash, Ashleigh <thrasham@dhec.sc.gov>
Cc: shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>; Mehta, Mihir <mehtam@dhec.sc.gov>; Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Subject: RE: UST #04785 Abatement Actions

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

The directive to conduct an AFVR event at the site was received, albeit without the backup sheets showing any amounts approved, which we need to ensure all costs are preapproved. Please provide that as is normal practice. Without the pre-approved amounts we have no record of what is and is not approved.

The property owner is fully aware of his responsibilities regarding off site access. However, if the SCDHEC wishes for this project to move forward at an expedited pace, I would suggest assistance be provided. We can not make the process any faster without governmental intercedence. I believe that point was made clear in our email response yesterday. That brings me to the four requirements again sent in the directive which were addressed yesterday. They are again shown below from the directive.

The approved SSWP for AFVR does not address the below concerns. Your contractor must submit abatement to address the following concerns by April 6, 2021:

- Prevention of free product from migrating off gas station property
- Seepage of free product into the nearby creek
- Vapors entering storm sewer system owned and operated by the city of Greenwood
- Full delineation of soil and groundwater in subsurface (Tier II assessment)

I will again answer these in the order set forth here as I did yesterday.

1. KLM has documented the presence of free product on site. KLM submitted a work plan to conduct Aggressive Fluid Vapor Recovery events at the site to prevent migration of the product off site. KLM proposed four events as a first course of action. One event has been approved. As a plan has been submitted and partially approved covering this point, it is unclear why this is not understood and keeps being inserted into letters which are not on this topic.

2. KLM cannot mitigate seepage of the free product into the creek or the storm system without an offsite access agreement with the property owner at Parcel # 6855-475-219. That property owner indicated to KLM while on site on March 8th that he has retained counsel and indicated a lawsuit was imminent. He also has hired Greg Force as his environmental consultant who collected samples on his property. In order for KLM to proceed with any abatement action off site, we must have an access agreement. KLM has submitted that agreement to the property owners, Mr. Ronny and Brandon Smith. The letter was sent Certified with Return Receipt on April 1st, 2021. Once an access agreement has been reached, KLM can proceed with work off site. KLM has also requested assistance in obtaining off site access from the SCDHEC in the report submitted March 29th and by email on March 30th, March 31st and again today on April 1st. Those requests have been ignored or flat out denied. Gladly, this is on record. It is imperative that we have an access agreement in place prior to commencing any work on private property. This is and has been standing procedure set forth by the SCDHEC for decades.

3. Vapors can be mitigated from entering the storm sewer, but access to the property where the storm sewer is located must be provided before we can begin any form of intercepting the free product. Please see the answers provided above regarding an access agreement.

4. A Tier II Plan was submitted to Ms. Caitlin Reilly by email on 4/1/21, and will be sent by hard copy. However, an access agreement must be in place with the property owner at Parcel # 6855-475-219 before work can begin.

While it may seem a lark to waste our time and resources, for the many people involved in this project reviewing emails and documents that continually rehash the same topic, it is tiresome and a waste of tax payer money. This time may be better spent assisting KLM with gaining off site access in lieu of continual letter writing. Lets make that a focal point moving forward if we can. Perhaps a new point of contact at the SCDHEC would serve this project better as the current contact appears not to be motivated to assist on this project in any fashion. We feel this is against the code of ethics this project, and all others, should be handled with. If things continue in this manner, we can certainly contact the governmental officials in our house of representatives and senate chamber and ask them to intercede on behalf of a private citizen and his representative who can gain no assistance despite documented requests.

Mark L. Keller, PG
President

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

From: Thrash, Ashleigh <thrasham@dhec.sc.gov>
Sent: Thursday, April 1, 2021 5:10 PM

To: mkeller131@comcast.net
 Cc: shahpetroinc@yahoo.com; mikepatel8905@yahoo.com; Ariail, Ryan D. <AriailRD@dhec.sc.gov>; Mehta, Mihir <mehtam@dhec.sc.gov>; Reilly, Caitlin M. <reillycm@dhec.sc.gov>
 Subject: Re: UST #04785 Abatement Actions

All,

Attached is an approval for the 3/30/2021 workplan for AFVR. A Cost Agreement number 63514 has been created as a courtesy for tracking purposes only as this release is still with deductible and SUPERB funds cannot yet be expended.

A hard copy was placed in the outgoing mail. Please let us know if you have any questions.

Ashleigh

Ashleigh Thrash, P.G.
 Section Manager, Assessment & Non-Permitted Petroleum
 S.C. Dept. of Health & Environmental Control
 Office: (803) 898-0807
 Cell: (803) 808-1765
 Connect: www.scdhec.gov Facebook Twitter



From: Mark Lee Keller <mkeller131@comcast.net>
 Sent: Wednesday, March 31, 2021 6:14 PM
 To: Thrash, Ashleigh <thrasham@dhec.sc.gov>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>;
 Ariail, Ryan D. <AriailRD@dhec.sc.gov>; Mehta, Mihir <mehtam@dhec.sc.gov>; Reilly, Caitlin M. <reillycm@dhec.sc.gov>
 Subject: RE: UST #04785 Abatement Actions

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

We are in receipt of the letter dated March 31st, 2021. The tank operator has completed the six requirements outlined in the first part of your letter, which you have already been informed about by email, report, and subsequent emails. KLM nor the site owner understand why this formal letter is being issued to address items already addressed and reported to the Department. If there is a communication barrier, or a technical understanding barrier, please let me know and we can explain what has already occurred in a different way. In any event, a response to each task outlined in the letter is provided below, corresponding to the number in the letter:

1. The tank owner informed KLM that the tank has been emptied of its contents. No contents remain in the tank. This requirement has been satisfied as reported to us.
2. There are no above ground releases present at the site. KLM performed a site inspection on March 8th and submitted the findings by email on March 9th, and by report on March 29th. This requirement has been satisfied.
3. No UST excavation has occurred. The tank is out of service in the tank pit with the remaining UST's. No underground structures are present in the area of the UST basin such as a basement. A storm sewer is present on site but is located well above the water table on site. This requirement has been satisfied.
4. No soils have been excavated at this time. An offsite access agreement must be reached with the property owner of the affected property across Main Street known as Parcel # 6855-475-219 if any off site excavation activities are to occur. That property owner indicated to KLM while on site on March 8th that he has retained counsel and indicated a lawsuit was imminent. He also has hired Greg Force as his environmental consultant who collected samples on his property. In order for KLM to proceed with any abatement action off site, we must have an access agreement. KLM has submitted that agreement to the property owners, Mr. Ronny and Brandon Smith. The letter is to be sent Certified with Return Receipt. Once an access agreement has been reached, KLM can proceed with work off site. This requirement is pending an off site access agreement. KLM has requested assistance with obtaining this both in the submitted report and by email.
5. The source of the release has been confirmed by a failed tank tightness test. That was previously submitted to the SCDHEC. KLM has already collected the required sample as well as documented free phase product in the monitoring well next to the tank pit at a thickness of over 5 feet. That was reported by email on March 9th, and in the report submitted March 29th. A groundwater sample was also collected by Geoprobe on March 8th below the free product, downgradient of the tank pit as requested by the SCDHEC. Those results were reported by email on March 25th, and by report on March 29th. This requirement has been satisfied.
6. The presence of free product was investigated on March 8th and the presence was reported to the SCDHEC by email on March 9th and by report on March 29th. A proposed work plan was submitted on March 30th to the SCDHEC to begin removal of the free product. That plan has not been approved. This requirement is dependent on the agency who issued this letter and this requirement. If the plan is approved, then this requirement can be completed. KLM nor the Responsible Party has no control over the approval of submitted work plans.

Regarding the requirements listed of the UST Contractor, who is KLM Environmental, there are four requirements listed. We will answer those in the order presented in the letter:

1. KLM has documented the presence of free product on site. KLM can not mitigate the migration off site without approval of the work plan submitted on March 30th. That work plan requested the use of Aggressive Fluid Vapor Recovery (AFVR) technology which has been proven across the state of South Carolina and throughout the country as an effective means of removing free product. A well is present in the tank basin with over 5 feet of free product as previously reported to the SCDHEC by email on March 8th and in the report submitted on March 29th. A work plan was submitted on March 30th yet it has not been approved for implementation. If this were truly an emergency action as we have been warned, why has our work plan not been quickly reviewed and approved as stated it would be, in bold letters no less, accompanied by a threat to a small minority owned business man that he would be turned over to enforcement if he did not comply, in the email chain dated March 30th?

2. KLM can not mitigate seepage of the free product into the creek or the storm system without an offsite access agreement with the property owner at Parcel # 6855-475-219. That property owner indicated to KLM while on site on March 8th that he has retained counsel and indicated a lawsuit was imminent. He also has hired Greg Force as his environmental consultant who collected samples on his property. In order for KLM to proceed with any abatement action off site, we must have an access agreement. KLM has submitted that agreement to the property owners, Mr. Ronny and Brandon Smith. The letter is to be sent Certified with Return Receipt. Once an access agreement has been reached, KLM can proceed with work off site. KLM has also requested assistance in obtaining off site access from the SCDHEC in the report submitted March 29th and by email on March 30th. We are again requesting assistance in this email on March 31st. It is imperative that we have an access agreement in place prior to commencing any work on private property. This is and has been standing procedure set forth by the SCDHEC for decades.

3. Vapors can be mitigated from entering the storm sewer, but access to the property where the storm sewer is located must be provided before we can begin any form of intercepting the free product. Please see the answers provided above regarding an access agreement.

4. A Tier II Plan will be submitted for the site on April 1st, which has not been requested by the SCDHEC until today, March 31st. However, it cannot be implemented without an access agreement from the property owner at Parcel # 6855-475-219. Please see multiple previous answers to this issue already presented.

I hope these answers to your points in the letter date March 31st, 2021 are sufficient for a comprehensive understanding of what has and what needs to occur, and who is responsible for each item. In addition, KLM alerted the SCDHEC that a Voluntary Cleanup Contract, denoted as VCC 17-5707-NRP is located on the adjacent property, which the storm sewer reportedly flows beneath. As known contaminants are present in this area, and KLM personnel may come in contact with those chemicals during the course of this work, to include free product abatement activities, KLM requests it be provided with a full copy of the assessment and remediation tasks completed at this site. The health and safety of our employees is paramount, as well as the health and safety of our citizens and our environment. If these chemicals are contributing to the pollution of the housing project area, we need to know and would advise the SCDHEC to involve the citizens and community leaders of Greenwood. It is our sincere hope that approval of our work plan will be hastened to demonstrate to the City of Greenwood that the SCDHEC is a willing partner, there to assist the community while showing compassion for a small business man trying to earn a living for his family, not a menacing agency threatening a man who has tried to comply with all requests put upon him. I hope together we can move this project forward.

Sincerely,

Mark L. Keller, PG
President

KLM Environmental, LLC

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

From: Thrash, Ashleigh <thrasham@dhc.sc.gov>

Sent: Wednesday, March 31, 2021 5:04 PM

To: mkeller131@comcast.net

Cc: shahpetroinc@yahoo.com; mikepatel8905@yahoo.com; Ariail, Ryan D. <AriailRD@dhc.sc.gov>; Mehta, Mihir <mehtam@dhc.sc.gov>; Reilly, Caitlin M. <reillycm@dhc.sc.gov>

Subject: Re: UST #04785 Abatement Actions

Good Afternoon Mr. Shah,

It was a pleasure to speak to you this afternoon and I hope we have cleared everything up. I have attached a copy of the letter outlining the abatement actions required at this time as we discussed today. Mark, I'm sorry we missed you but understand you were in the field.

Mr. Shah, Mr. Keller's contact info is as follows:

Office: 843-797-7884
Cell: 843-870-4285

You can also reach me directly at either of the numbers below. Please don't hesitate to reach out to either me or Ryan if you have any further questions for us.

Thank you!

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 [Facebook](#) [Twitter](#)



From: Mark Keller <mkeller131@comcast.net>

Sent: Wednesday, March 31, 2021 12:46 PM

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

Cc: shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>;

Ariail, Ryan D. <AriailRD@dhec.sc.gov>; Mehta, Mihir <mehtam@dhec.sc.gov>; Reilly, Caitlin M. <reillycm@dhec.sc.gov>

Subject: Re: UST #04785 Abatement Actions

*** Caution: This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***
I have not spoken to him today. We are in the field.

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 Mar 31, 2021, at 11:52 AM, Thrash, Ashleigh <thrasham@dhec.sc.gov> wrote:

Great - we should all be available at that time.

I know Mr. Patel indicated Mr. Shah was authorized to discuss/make decisions on his behalf regarding site rehabilitation. Is Mr. Shah available around that time?

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 [Facebook](#) [Twitter](#)



From: Mark Keller <mkeller131@comcast.net>

Sent: Wednesday, March 31, 2021 11:27 AM

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

Cc: shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>;

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

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

Subject: Re: UST #04785 Abatement Actions

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

I hope to be available by then. Mr. Patel will not be available for the next 6 months or so until he returns.

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 Mar 31, 2021, at 11:00 AM, Thrash, Ashleigh <thrasham@dhec.sc.gov> wrote:

Thanks for the update, Mark.

We have received the work plan and preliminarily reviewed it.

Will you and Mr. Patel/Mr. Shah be available around 3:30-4:00 for a call? Or will you not be available until later than that/tomorrow?

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 [Facebook](#) [Twitter](#)



From: Mark Keller <mkeller131@comcast.net>
Sent: Wednesday, March 31, 2021 10:53 AM
To: Thrash, Ashleigh <thrasham@dhec.sc.gov>
Cc: shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>; Mehta, Mihir <mehtam@dhec.sc.gov>; Reilly, Caitlin M. <creillycm@dhec.sc.gov>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>
Subject: Re: UST #04785 Abatement Actions

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

We are on a drilling project today. Will be available late afternoon. A work plan was submitted last night to the Project Manager as well as Ryan Ariail at his request. Please let me know if I need to coordinate between you and Caitlin and Ryan.

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 Mar 31, 2021, at 9:58 AM, Thrash, Ashleigh <thrasham@dhec.sc.gov> wrote:

Good Morning All,

We feel that it would be beneficial to have a call as soon as everyone is available in order to discuss what actions are required at the site as well as answer any questions that any of you may have so that abatement may proceed.

Mr. Patel, I understand you are leaving the country so I have looped Shah in so that he may be present on the call on your behalf if you wish.

Are you all available either after 11 this morning or sometime this afternoon for a call? Let me know and I will provide the conference line

information.

Thank you!

Ashleigh

Ashleigh Thrash, P.G.

Section Manager, Assessment & Non-Permitted Petroleum

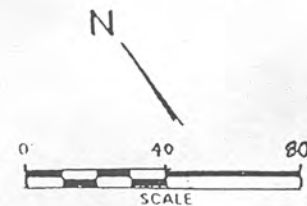
S.C. Dept. of Health & Environmental Control

Office: (803) 898-0607

Cell: (803) 608-1765

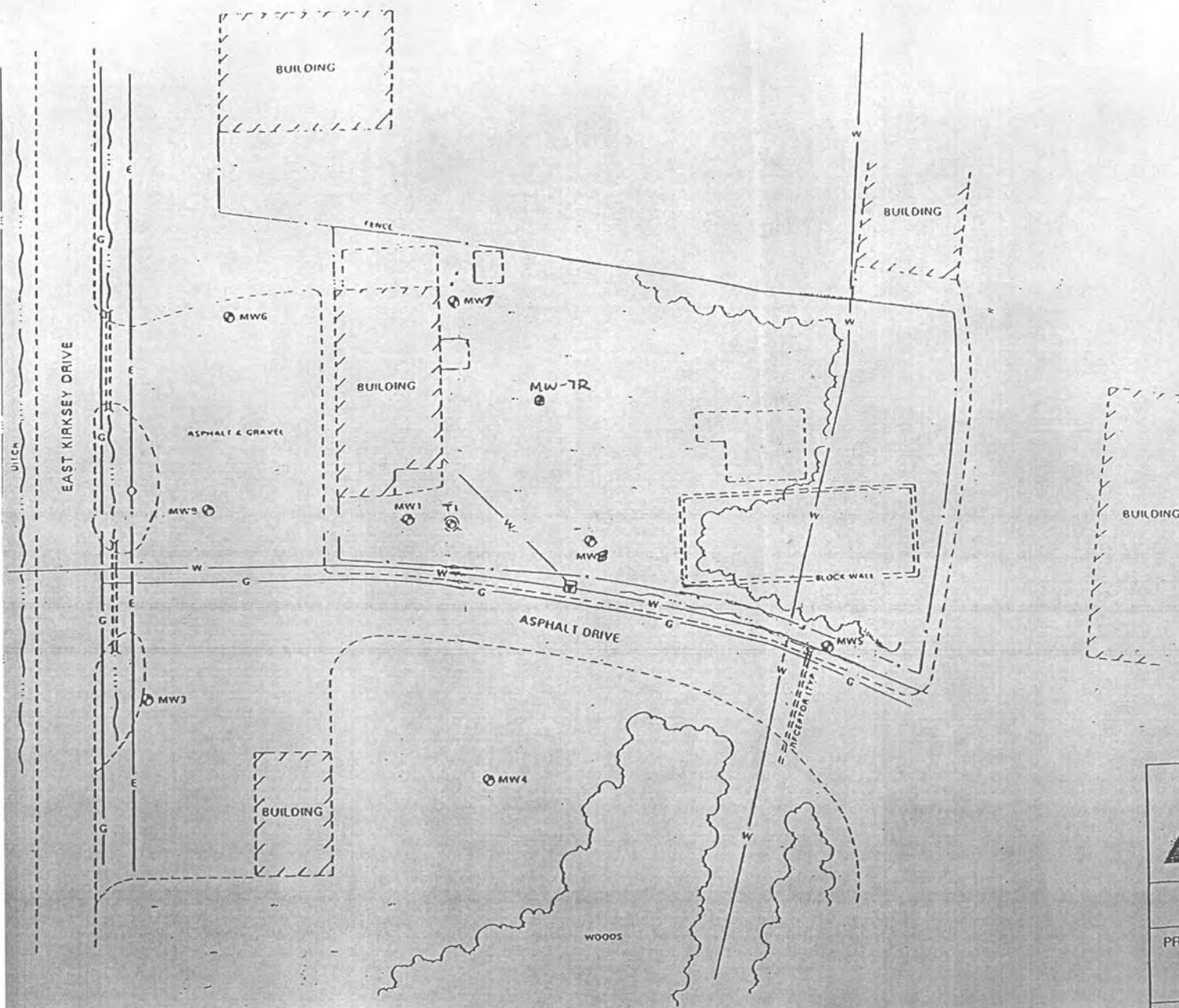
Connect: www.scdhec.gov [Facebook](#) [Twitter](#)





LEGEND

- POWER POLE
- ⊞ WATER METER
- W- WATER LINE
- E- OVERHEAD POWER LINE
- G- NATURAL GAS LINE
- ⊙ MONITORING WELL
- ⊙ TELESCOPING WELL



Delta
Environmental
Consultants, Inc.

Delta Environmental Consu
8008 CORPORATE CENTER
CHARLOTTE, NC

PROJECT NO.
XOSC-276

CLIENT/LOCATION

WORSLEY COMPANIES II
PETROLEUM PRODUCT
GREENWOOD, NORTH CAR

PROJECT MANAGER
S. LIBBEY

FIGURE NO.
1

DRAWING DESCRIPTI
SITE MAP

DATE:
7-8-03

Re: UST # 04785

Mark Keller <mkeller131@comcast.net>

Tue 3/30/2021 1:35 PM

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

Cc: Place, Denise <placedm@dhec.sc.gov>; O'Neal, Thomas C. <onealtc@dhec.sc.gov>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Reilly, Caitlin M. <reillycm@dhec.sc.gov>; Cathcart, Eric F. <cathcaef@dhec.sc.gov>

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

We have spoken with Chris McClusky at SCDHEC and he is going to contact the appropriate parties at SCDHEC who operate the storm drain system. They are apparently located next door to the subject site. Please touch base with him and keep us informed if possible. We are working on terms, access, and a work scope we can implement rapidly to start to address the issue. I will send those directly to Ashley and Caitlin once we have something together. Please call me with any questions.

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 Mar 30, 2021, at 12:43 PM, Thrash, Ashleigh <thrasham@dhec.sc.gov> wrote:

Thanks for the update 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 [Facebook](#) [Twitter](#)



From: Mark Keller <mkeller131@comcast.net>
Sent: Tuesday, March 30, 2021 11:57 AM
To: Thrash, Ashleigh <thrasham@dhec.sc.gov>
Cc: Place, Denise <placedm@dhec.sc.gov>; O'Neal, Thomas C. <onealtc@dhec.sc.gov>;
mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Reilly, Caitlin M.
<reillycm@dhec.sc.gov>; Cathcart, Eric F. <cathcaef@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. ***

We have contacted the Greenwood Metro sewer dept. They responded to the site and we spoke to them while they walked the drainage line. They informed us the SCDHEC operates that section of the line. We have contacted the Anderson SCDHEC office and they referred it to their ERT team. We are waiting to hear from them. I assume the SCDHEC operates this section due to the VCC at the adjacent site? Wanted to provide everyone an update.

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 Mar 30, 2021, at 8:07 AM, Thrash, Ashleigh <thrasham@dhec.sc.gov> wrote:

All,

The abatement actions needed at this time are the prevention of petroleum chemicals of concern (COCs) from seeping into the creek, to prevent vapors from entering the sewer system that the creek routes to, to monitor and provide controls for vapors, if they reach unsafe levels, from becoming a human health concern for the surrounding community, and also to remove free product on-site. We understand this may include coordination with local officials and/or agencies for proper monitoring of the sewer system to ensure vapors do not reach unsafe levels.

Make sure to obtain pre-approval for any costs that are incurred during abatement so that costs can be applied to the deductible.

I have copied Caitlin Reilly on this email since she is the project manager, and Eric Cathcart since he has been involved in this project and assisting.

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 [Facebook](#) [Twitter](#)



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

Sent: Monday, March 29, 2021 5:39 PM

To: Place, Denise <placedm@dhec.sc.gov>; O'Neal, Thomas C. <onealtc@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>

Cc: mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>

Subject: UST # 04785

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

Ms. Place, Mr. O'Neal, and Ms. Thrash,

Please find attached the Sampling Report for UST # 04785. Please look it over and let me know what is needed as the next course of action here. I spoke with Ms. Thrash this afternoon and abatement work may be in order but I am not certain what will be requested at this time. Please let me know how we need to proceed and I will get started on the project. Mr. Patel will be out of the country for approximately the next six months but we will be working on this with his managers while he is away.

Thank you,

Mark

Mark L. Keller, PG
President

KLM Environmental, LLC

PO Box 2704

Goose Creek, SC 29445

843-870-4285 Cell

From: Mark Lee Keller <mkeller131@comcast.net>
Sent: Tuesday, March 9, 2021 12:06 PM
To: 'Place, Denise' <placedm@dhec.sc.gov>; 'O'Neal, Thomas C.' <onealtc@dhec.sc.gov>
Cc: 'mikepatel8905@yahoo.com' <mikepatel8905@yahoo.com>
Subject: RE: UST # 04785


Ms. Place and Mr. O'Neal,

KLM was on site yesterday to perform the sampling at UST # 04785. Upon arriving, KLM noted a monitoring well present in the tank pit. The origin of that well is unknown. KLM gauged the well and free product (gasoline) was detected from 12.17 feet to 17.02 feet. KLM then utilized a Geoprobe 7822 and advance a sampler in the area shown on the attached map to collect a sample below the free product zone from an area between the creek and the tank basin. The sampler was advanced to 24 feet and screened from 20-24 feet. A water sample was collected and has been submitted to the analytical laboratory for analysis. KLM also walked the area between the tank basin and the creek, and the surrounding areas. Fuel issues are present at an area half way to the creek in a low lying area. This fuel however smelled of kerosene/diesel fuel which is not sold at the Quick Pantry # 19. Absorbent pads were found in the creek also and they too smelled of kerosene/diesel. The property owner stopped and spoke with us while on site and indicated he had put the pads down there to catch some fuel entering the creek from the unknown source. He also indicated he had hired an attorney and that Greg Force had been on his site and collected samples. We were not given the results of that sampling.

It was also noted that a VCC site is immediately adjacent to the property where the fuel issue has been found. VCC- 17-5707-NRP is located on the south side of Foundry Road. A fuel smell can be detected in that area along Foundry Road but may be coming from runoff water from the site where fuel was found in the creek.

Once we have the results we will present them in a formal report, but I wanted to present that we do have free product detected at a significant thickness currently. A photo of the product we collected from the well is attached.

Mark L. Keller, PG
President

 KLM Environmental, LLC


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

From: Mark Lee Keller <mkeller131@comcast.net>
Sent: Monday, March 1, 2021 8:37 PM
To: 'Place, Denise' <placedm@dhec.sc.gov>; 'O'Neal, Thomas C.' <onealtc@dhec.sc.gov>
Cc: 'mikepatel8905@yahoo.com' <mikepatel8905@yahoo.com>
Subject: RE: UST # 04785

Thank you. We will conduct the sampling on Monday of next week. We will install the monitoring point on site as off site access will delay this process longer. Please let me know if you have any questions or need anything.

Mark

Mark L. Keller, PG
President

 KLM Environmental, LLC

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

From: Place, Denise <placedm@dhec.sc.gov>
Sent: Monday, March 1, 2021 9:42 AM
To: mkeller131@comcast.net; O'Neal, Thomas C. <onealtc@dhec.sc.gov>
Cc: mikepatel8905@yahoo.com
Subject: Re: UST # 04785

A temporary monitoring well is sufficient.

Denise Place

Environmental Health Manager

Underground Storage Tank Management Division

S.C. Dept. of Health & Environmental Control

Office: (803) 898-0647

Fax: (803) 898-0673

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

"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: Mark Lee Keller <mkeller131@comcast.net>
Sent: Sunday, February 28, 2021 1:01 PM

To: O'Neal, Thomas C. <onealtc@dhec.sc.gov>; Place, Denise <placedm@dhec.sc.gov>
Cc: mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>
Subject: UST # 04785

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

Mr. O'Neal and Ms. Place,


We are attempting to provide Mr. Patel with a price to complete the requested work at UST # 04785. We needed clarification regarding the sampling requirements. The attached correspondence from Denise Place requests a groundwater sample. The Consent Order from Mr. O'Neal requests a monitoring well be installed and sampled. We need to know if a temporary well using a Geoprobe is sufficient in completing the requirement, or if a permanent monitoring well is required. We initially quoted the work using a temporary well. Please let me know which is required so we can update the pricing for Mr. Patel.

Also attached is the tank tightness test Mr. Patel had completed on 2/22/21. He has been working through the requirements it has just taken some time unfortunately. The tank tightness test did not pass.

Thank you,

Mark Keller

Mark L. Keller, PG
President

 KLM Environmental, LLC

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

UST #04785**Mark Lee Keller** <mkeller131@comcast.net>

Tue 3/30/2021 7:20 PM

To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>**Cc:** Ariail, Ryan D. <AriailRD@dhec.sc.gov>

■ 2 attachments (7 MB)

SCDHEC Work Plan UST # 04785 Quick Pantry # 19.pdf; Quick Pantry # 19 Sampling Report UST # 04785.pdf;

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


Please find attached the initial action work plan for UST # 04785. As we can not have any money spent by Mr. Patel applied towards the deductible without prior authorization, I have submitted this work plan as an initial course of action. As we have no access to any off site property, and a lawsuit is imminent as we were told by the property owner during our site work, we can not access the adjacent property to perform any function without an access agreement. I attach a copy of my report submitted just last night on this site. We did however notify Ms. Denise Place and Mr. Thomas O'Neal by email of our findings from the day of the event on March 9th, and we emailed the analytical results to both of them on March 25th.

Please call me with any questions.

Thanks

Mark

Mark L. Keller, PG
President

 **KLM Environmental, LLC**

PO Box 2704

Goose Creek, SC 29445

843-870-4285 Cell





**Site-Specific Work Plan for Approved ACQAP
Underground Storage Tank Management Division**

To: Caitlin Reilly (SCDHEC Project Manager)
From: Mark L. Keller, PG (Contractor Project Manager)
Contractor: KLM Environmental, LLC UST Contractor Certification Number: 345

Facility Name: Quick Pantry # 19 UST Permit #: 04785
Facility Address: 1802 S. Main Street, Greenwood, SC
Responsible Party: Bahuchar Mata, LLC Phone: 864-378-6993
RP Address: 311 Oakmonte Circle, Greenwood, SC 29649
Property Owner (if different): SMVS Real Estate
Property Owner Address: 1802 S. Main Street, Greenwood, SC 29646
Current Use of Property: Convenience Store and Gasoline Station

Scope of Work (Please check all that apply)

☐ IGWA ☐ Tier II ☐ Groundwater Sampling ☐ GAC
☐ Tier I ☐ Monitoring Well Installation ☒ Other _____

Analyses (Please check all that apply)

Groundwater/Surface Water:

<input type="checkbox"/> BTEXNMDCA (8260D)	<input type="checkbox"/> Lead	<input type="checkbox"/> BOD	<input type="checkbox"/> Methane
<input type="checkbox"/> Oxygenates (8260D)	<input type="checkbox"/> 8 RCRA Metals	<input type="checkbox"/> Nitrate	<input type="checkbox"/> Ethanol
<input type="checkbox"/> EDB (8011)	<input type="checkbox"/> TPH	<input type="checkbox"/> Sulfate	<input type="checkbox"/> Dissolved Iron
<input type="checkbox"/> PAH (8270E)	<input type="checkbox"/> pH	<input type="checkbox"/> Other _____	

Drinking Water Supply Wells:

<input type="checkbox"/> BTEXNMDCA (524.2)	<input type="checkbox"/> Mercury (200.8 245.1 or 245.2)	<input type="checkbox"/> EDB (504.1)
<input type="checkbox"/> Oxygenates & Ethanol (8260D)	<input type="checkbox"/> RCRA Metals (200.8)	

Soil:

<input type="checkbox"/> BTEXNM	<input type="checkbox"/> Lead	<input type="checkbox"/> RCRA Metals	<input type="checkbox"/> TPH-DRO (3550B/8015B)	<input type="checkbox"/> Grain Size
<input type="checkbox"/> PAH	<input type="checkbox"/> Oil & Grease (9071)	<input type="checkbox"/> TPH-GRO (5030B/8015B)	<input type="checkbox"/> TOC	

Air:

☐ BTEXN

Sample Collection (Estimate the number of samples of each matrix that are expected to be collected.)

_____ Soil	_____ Water Supply Wells	_____ Air	_____ Field Blank
_____ Monitoring Wells	_____ Surface Water	_____ Duplicate	_____ Trip Blank

Field Screening Methodology

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.

of shallow points proposed: _____ Estimated Footage: _____ feet per point
of deep points proposed: _____ Estimated Footage: _____ feet per point

Field Screening Methodology: _____

Permanent Monitoring Wells

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.

of shallow wells: _____ Estimated Footage: _____ feet per point
of deep wells: _____ Estimated Footage: _____ feet per point
of recovery wells: _____ Estimated Footage: _____ feet per point

Comments, if warranted:

UST Permit #: 04785 Facility Name: Quick Pantry # 19

Implementation Schedule (Number of calendar days from approval)

Field Work Start-Up: 5 days Field Work Completion: 60 days

Report Submittal: 90 # of Copies Provided to Property Owners: _____

Aquifer Characterization

Pump Test: ☐ Slug Test: ☐ (Check one and provide explanation below for choice)

Investigation Derived Waste Disposal

Soil: _____ Tons Purge Water: _____ Gallons
Drilling Fluids: _____ Gallons Free-Phase Product: _____ Gallons

Additional Details For This Scope of Work

For example, list wells to be sampled, wells to be abandoned/repared, well pads/bolts/caps to replace, details of AFVR event, etc.

The SCDHEC has requested an emergency action regarding fuel reportedly seeping into a creek on an adjacent property to the Quick Pantry # 19 site. KLM does not have an access agreement in place with the property owner on the adjacent property, identified as Parcel ID 6855-475-219. A request was made for assistance in obtaining site access to the SCDHEC but that request has been ignored. KLM can only operate on the subject property at this time. As one monitoring well is present near the tank pit, KLM proposes to conduct 4 AFVR events on that well in an effort to remove as much free product as possible from this area. During that event, KLM will attempt to gain an access agreement with the property owner of the parcel identified. KLM will submit multiple work plans as we are allowed to access the area. As ALL work must be pre-approved, we can not conduct any work prior to approval by the SCDHEC.

Compliance With Annual Contractor Quality Assurance Plan (ACQAP)

N/A Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.

Name of Laboratory: _____

SCDHEC Certification Number: _____

Name of Laboratory Director: _____

N/A Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.

Name of Well Driller: _____

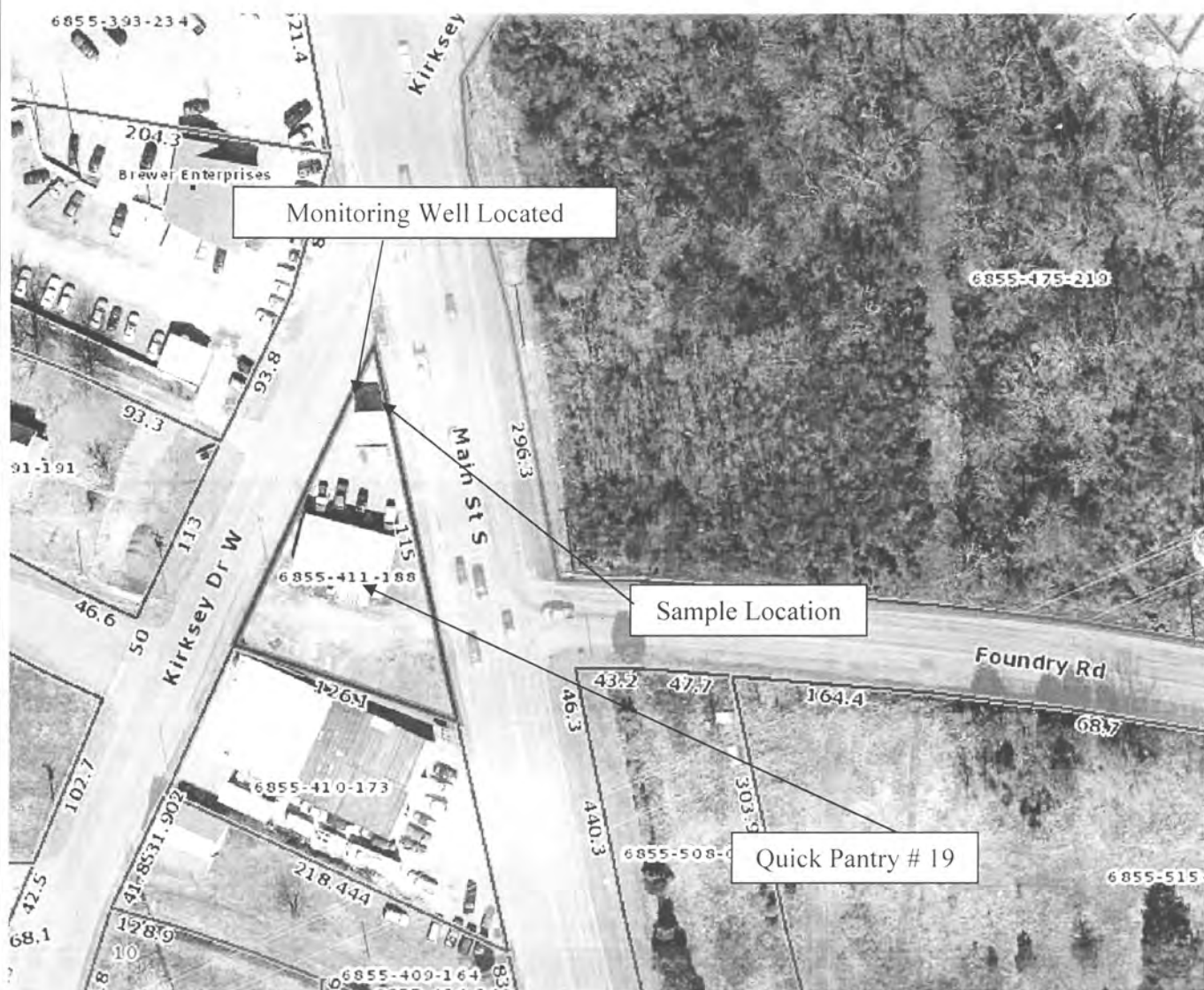
SCLLR Certification Number: _____

____ Other variations from ACQAP. Please describe below.

Attachments

1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:

North Arrow	Proposed monitoring well locations
Location of property lines	Legend with facility name and address, UST permit number, and bar scale
Location of buildings	Streets or highways (indicate names and numbers)
Previous soil sampling locations	Location of all present and former ASTs and USTs
Previous monitoring well locations	Location of all potential receptors
Proposed soil boring locations	
3. Assessment Component Cost Agreement, SCDHEC Form D-3664



KLM Environmental, LLC

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

Figure 2
Sample Location Map
Quick Pantry # 19
Greenwood, SC
Project # 21547



**ASSESSMENT COMPONENT COST AGREEMENT
SOUTH CAROLINA**

Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
January 1, 2020

Facility Name: Quick Pantry # 19

UST Permit #: 04785

Cost Agreement #: _____

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
A. Plan Preparation				
1. Site-specific Work Plan	1	each	\$160.05	\$160.05
2. Tax Map		each	\$74.69	\$0.00
3. Tier II or Comp. Plan /QAPP Appendix B		each	\$250.00	\$0.00
B. Receptor Survey *		each	\$587.92	\$0.00
C. Survey (500 ft x 500 ft)				
1. Comprehensive Survey		each	\$1,109.68	\$0.00
Subsurface Geophysical Survey				
2. < 10 meters below grade		each	\$1,387.10	\$0.00
3. > 10 meters below grade		each	\$2,464.77	\$0.00
4. Geophysical UST or Drum Survey		each	\$970.97	\$0.00
D. Mob/Demob				
1. Equipment		each	\$1,088.34	\$0.00
2. Personnel		each	\$451.34	\$0.00
3. Adverse Terrain Vehicle		each	\$533.50	\$0.00
E.. Soil Borings (hand auger)*		foot	\$5.34	\$0.00
F. Soil Borings (requiring equipment, push technology, etc) or Field Screening (including water sample, soil sample, soil gas sample, etc.)*				
1. Standard		per foot	\$16.01	\$0.00
2. Fractured Rock		per foot	\$21.55	\$0.00
G. Soil Leachability Model		each	\$64.02	\$0.00
H. Abandonment (per foot)*				
1. 2" diameter or less		per foot	\$3.31	\$0.00
2. Greater than 2" to 6" diameter		per foot	\$4.80	\$0.00
3. Dug/Bored well (up to 6 feet diameter)		per foot	\$16.00	\$0.00
I. Well Installation (per foot)*				
1. Water Table (hand augered)		per foot	\$11.31	\$0.00
2. Water Table (drill rig) 2" Diameter		per foot	\$40.55	\$0.00
3. Telescoping		per foot	\$53.35	\$0.00
4. Rock Drilling		per foot	\$61.89	\$0.00
5. 2" Rock Coring		per foot	\$32.97	\$0.00
6. Rock Multi-sampling ports/screens		per foot	\$35.64	\$0.00
7. Recovery Well (4" diameter)		per foot	\$48.02	\$0.00
8. Pushed Pre-packed screen (1.25" dia)		per foot	\$16.01	\$0.00
9. Rotasonic (2" diameter)		per foot	\$46.95	\$0.00
10. Re-develop Existing Well		per foot	\$11.74	\$0.00

J. Groundwater Sample Collection / Gauge Depth to Water or Product *				
1. Groundwater Purge		per well	\$64.02	\$0.00
2. Air or Vapors		sample	\$12.80	\$0.00
3. Water Supply Sample or Duplicate		sample	\$23.47	\$0.00
4. Groundwater No Purge or Duplicate or Grab		sample	\$29.88	\$0.00
5. Gauge Well only		sample	\$7.47	\$0.00
6. Sample Below Product		sample	\$12.80	\$0.00
7. Passive Diffusion Bag		sample	\$27.74	\$0.00
8. Field Blank		sample	\$26.25	\$0.00
9. Groundwater (low flow purge)		sample	\$97.10	\$0.00
10. Equipment Blank		sample	\$26.25	\$0.00
K. Laboratory Analyses-Groundwater				
1. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)		per sample	\$130.17	\$0.00
2. Lead, Filtered		per sample	\$14.72	\$0.00
3. Rush EPA Method 8260B		per sample	\$163.89	\$0.00
4. Trimethal, Butyl, and Isopropyl Benzenes		per sample	\$29.88	\$0.00
5. PAH's		per sample	\$64.66	\$0.00
6. Lead		per sample	\$17.07	\$0.00
7. EDB by EPA 8011		per sample	\$48.23	\$0.00
8. EDB by EPA Method 8011 Rush		per sample	\$72.77	\$0.00
9. 8 RCRA Metals		per sample	\$67.65	\$0.00
10. TPH (9070)		per sample	\$43.75	\$0.00
11. PH		per sample	\$5.55	\$0.00
12. BOD		per sample	\$21.34	\$0.00
13. Ethanol		per sample	\$15.79	\$0.00
K. Analyses-Drinking Water				
14. BTEXNM+1,2 DCA (524.2)		per sample	\$132.36	\$0.00
15. 7-OXYGENATES & ETHANOL (8260B)		per sample	\$97.90	\$0.00
16. EDB (504.1)		per sample	\$84.83	\$0.00
17. RCRA METALS (200.8)		per sample	\$106.70	\$0.00
K. Analyses-Soil				
18. BTEX + Naphth.		per sample	\$68.29	\$0.00
19. PAH's		per sample	\$68.33	\$0.00
20. 8 RCRA Metals		per sample	\$60.18	\$0.00
21. TPH-DRO (3550C/8015C)		per sample	\$42.68	\$0.00
22. TPH- GRO (5035B/8015C)		per sample	\$38.37	\$0.00
23. Grain size/hydrometer		per sample	\$110.97	\$0.00
24. Total Organic Carbon		per sample	\$32.65	\$0.00
K. Analyses-Air				
25. BTEX + Naphthalene		per sample	\$230.47	\$0.00
K. Analyses-Free Phase Product				
26. Hydrocarbon Fuel Identification		per sample	\$380.92	\$0.00
L. Aquifer Characterization*				
1. Pumping Test		per hour	\$24.54	\$0.00
2. Slug Test		per test	\$203.80	\$0.00
3. Fractured Rock		per test	\$106.70	\$0.00

M. Free Product Recovery Rate Test*		each	\$40.55		\$0.00
N. Fate/Transport Modeling					
1. Mathematical Model		each	\$106.70		\$0.00
2. Computer Model		each	\$106.70		\$0.00
O. Risk Evaluation					
1. Tier I Risk Evaluation		each	\$320.10		\$0.00
2. Tier II Risk Evaluation		each	\$106.70		\$0.00
P. Subsequent Survey*		each	\$260.00		\$0.00
Q. Disposal (gallons or tons)*					
1. Wastewater		gallon	\$0.60		\$0.00
2. Free Product		gallon	\$0.53		\$0.00
3. Soil Treatment/Disposal		ton	\$64.02		\$0.00
4. Drilling fluids		gallon	\$0.45		\$0.00
R. Miscellaneous (attach receipts)					
		each	\$0.00		\$0.00
		each	\$0.00		\$0.00
		each	\$0.00		\$0.00
T. Tier I Assessment (Use DHEC 3665 form)					
1. Southeast Region		standard	\$11,026.00		\$0.00
2. All Other Counties		standard	\$12,093.00		\$0.00
U. IGWA (Use DHEC 3666 form)					
1. Southeast Region		standard	\$3,803.00		\$0.00
2. All Other Counties		standard	\$4,123.00		\$0.00
22. Corrective Action (Use DHEC 3667 form)		PFP Bid			\$0.00
W. Aggressive Fluid & Vapor Recovery (AFVR)					
1. 8-hour Event*		per event	\$1,467.13		\$0.00
2. 24-hour Event*		per event	\$4,081.28		\$0.00
3. 48-hour Event*		per event	\$6,706.10		\$0.00
4. 96-hour Event*	4	per event	\$13,409.52		\$53,638.08
5. Off-gas Treatment 8 hour		per event	\$130.71		\$0.00
6. Off-gas Treatment 24 hour		per event	\$257.68		\$0.00
7. Off-gas Treatment 48 hour		per event	\$348.91		\$0.00
8. Off-gas Treatment 96 hour	4	per event	\$832.26		\$3,329.04
9. Off-gas Treatment 8 hour (w/chlorinated compounds)		per event	\$430.00		\$0.00
10. Off-gas Treatment 24 hour (w/chlorinated compounds)		per event	\$500.00		\$0.00
11. Off-gas Treatment 48 hour (w/chlorinated compounds)		per event	\$1,000.00		\$0.00
12. Off-gas Treatment 96 hour (w/chlorinated compounds)		per event	\$2,000.00		\$0.00
13. AFVR Effluent Disposal(w/chlorinated compounds)		gallon	\$0.50		\$0.00
14. AFVR Site Reconnaissance	1	each	\$216.87		\$216.87
15. Additional Hook-ups		each	\$27.48		\$0.00
16. AFVR Effluent Disposal	80000	gallon	\$0.47		\$37,600.00
17. AFVR Mobilization/Demobilization	4	each	\$417.73		\$1,670.92
X. Granulated Activated Carbon (GAC) filter system installation & service:					
1. New GAC System Installation*		each	\$2,027.30		\$0.00
2. Refurbished GAC Sys. Install*		each	\$960.30		\$0.00
3. Filter replacement/removal*		each	\$373.45		\$0.00
4. GAC System removal, cleaning, & refurbishment*		each	\$293.43		\$0.00
5. GAC System housing*		each	\$266.75		\$0.00

6. In-line particulate filter		each	\$160.05		\$0.00
7. Additional piping & fittings		foot	\$1.60		\$0.00
Y. Well Repair					
1. Additional Copies of the Report Delivered		each	\$53.35		\$0.00
2. Repair 2x2 MW pad*		each	\$53.35		\$0.00
3. Repair 4x4 MW pad*		each	\$93.90		\$0.00
4. Replace well vault*		each	\$125.91		\$0.00
5. Replace well cover bolts		each	\$2.77		\$0.00
6. Replace locking well cap & lock		each	\$16.00		\$0.00
7. Replace/Repair stick-up*		each	\$142.98		\$0.00
8. Convert Flush-mount to Stick-up*		each	\$160.05		\$0.00
9. Convert Stick-up to Flush-mount*		each	\$138.71		\$0.00
10. Replace missing/illegible well ID plate		each	\$12.80		\$0.00
S. Report Prep & Project Management	12%	percent	\$96,614.96		\$11,593.80
TOTAL					\$108,208.76

DHEC D-4074 (1-2020) *The appropriate mobilization cost can be added to complete these tasks, as necessary



**Site-Specific Work Plan for Approved ACQAP
Underground Storage Tank Management Division**

To: Caitlin Reilly (SCDHEC Project Manager)
From: Mark L. Keller, PG (Contractor Project Manager)
Contractor: KLM Environmental, LLC UST Contractor Certification Number: 345

Facility Name: Quick Pantry # 19 UST Permit #: 04785

Facility Address: 1802 S. Main Street, Greenwood, SC

Responsible Party: Bahuchar Mata, LLC

Phone: 864-378-6993

RP Address: 311 Oakmonte Circle, Greenwood, SC 29649

Property Owner (if different): SMVS Real Estate

Property Owner Address: 1802 S. Main Street, Greenwood, SC 29646

Current Use of Property: Convenience Store and Gasoline Station



Scope of Work (Please check all that apply)

☐ IGWA ☐ Tier II ☐ Groundwater Sampling ☐ GAC
☐ Tier I ☐ Monitoring Well Installation ☒ Other _____

Analyses (Please check all that apply)

Groundwater/Surface Water:

<input type="checkbox"/> BTEXNMDCA (8260D)	<input type="checkbox"/> Lead	<input type="checkbox"/> BOD	<input type="checkbox"/> Methane
<input type="checkbox"/> Oxygenates (8260D)	<input type="checkbox"/> 8 RCRA Metals	<input type="checkbox"/> Nitrate	<input type="checkbox"/> Ethanol
<input type="checkbox"/> EDB (8011)	<input type="checkbox"/> TPH	<input type="checkbox"/> Sulfate	<input type="checkbox"/> Dissolved Iron
<input type="checkbox"/> PAH (8270E)	<input type="checkbox"/> pH	<input type="checkbox"/> Other _____	

Drinking Water Supply Wells:

<input type="checkbox"/> BTEXNMDCA (524.2)	<input type="checkbox"/> Mercury (200.8 245.1 or 245.2)	<input type="checkbox"/> EDB (504.1)
<input type="checkbox"/> Oxygenates & Ethanol (8260D)	<input type="checkbox"/> RCRA Metals (200.8)	

Soil:

<input type="checkbox"/> BTEXNM	<input type="checkbox"/> Lead	<input type="checkbox"/> RCRA Metals	<input type="checkbox"/> TPH-DRO (3550B/8015B)	<input type="checkbox"/> Grain Size
<input type="checkbox"/> PAH	<input type="checkbox"/> Oil & Grease (9071)	<input type="checkbox"/> TPH-GRO (5030B/8015B)	<input type="checkbox"/> TOC	

Air:

☐ BTEXN

Sample Collection (Estimate the number of samples of each matrix that are expected to be collected.)

_____ Soil	_____ Water Supply Wells	_____ Air	_____ Field Blank
_____ Monitoring Wells	_____ Surface Water	_____ Duplicate	_____ Trip Blank

Field Screening Methodology

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.

of shallow points proposed: _____ Estimated Footage: _____ feet per point

of deep points proposed: _____ Estimated Footage: _____ feet per point

Field Screening Methodology: _____

Permanent Monitoring Wells

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.

of shallow wells: _____ Estimated Footage: _____ feet per point

of deep wells: _____ Estimated Footage: _____ feet per point

of recovery wells: _____ Estimated Footage: _____ feet per point

Comments, if warranted: _____

UST Permit #: 04785 Facility Name: Quick Pantry # 19

Implementation Schedule (Number of calendar days from approval)

Field Work Start-Up: 5 days Field Work Completion: 60 days

Report Submittal: 90 # of Copies Provided to Property Owners: _____

Aquifer Characterization

Pump Test: ☐ Slug Test: ☐ (Check one and provide explanation below for choice)

Investigation Derived Waste Disposal

Soil: _____ Tons Purge Water: _____ Gallons
Drilling Fluids: _____ Gallons Free-Phase Product: _____ Gallons

Additional Details For This Scope of Work

For example, list wells to be sampled, wells to be abandoned/repared, well pads/bolts/caps to replace, details of AFVR event, etc.

The SCDHEC has requested an emergency action regarding fuel reportedly seeping into a creek on an adjacent property to the Quick Pantry # 19 site. KLM does not have an access agreement in place with the property owner on the adjacent property, identified as Parcel ID 6855-475-219. A request was made for assistance in obtaining site access to the SCDHEC but that request has been ignored. KLM can only operate on the subject property at this time. As one monitoring well is present near the tank pit, KLM proposes to conduct 4 AFVR events on that well in an effort to remove as much free product as possible from this area. During that event, KLM will attempt to gain an access agreement with the property owner of the parcel identified. KLM will submit multiple work plans as we are allowed to access the area. As ALL work must be pre-approved, we can not conduct any work prior to approval by the SCDHEC.

Compliance With Annual Contractor Quality Assurance Plan (ACQAP)

N/A Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.

Name of Laboratory: _____

SCDHEC Certification Number: _____

Name of Laboratory Director: _____

N/A Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.

Name of Well Driller: _____

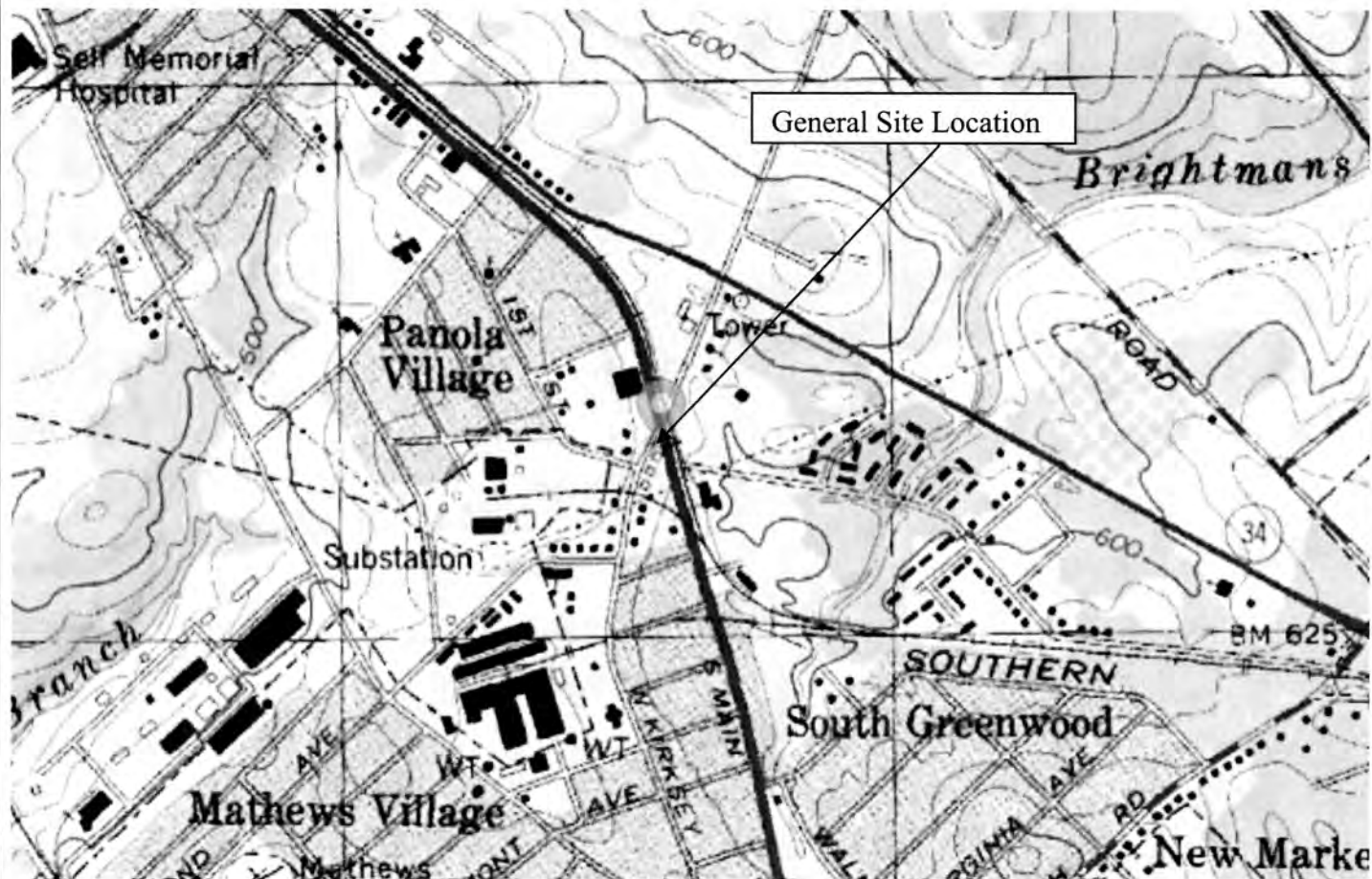
SCLLR Certification Number: _____

Other variations from ACQAP. Please describe below.

Attachments

1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:

North Arrow	Proposed monitoring well locations
Location of property lines	Legend with facility name and address, UST permit number, and bar scale
Location of buildings	Streets or highways (indicate names and numbers)
Previous soil sampling locations	Location of all present and former ASTs and USTs
Previous monitoring well locations	Location of all potential receptors
Proposed soil boring locations	
3. Assessment Component Cost Agreement, SCDHEC Form D-3664



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

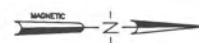
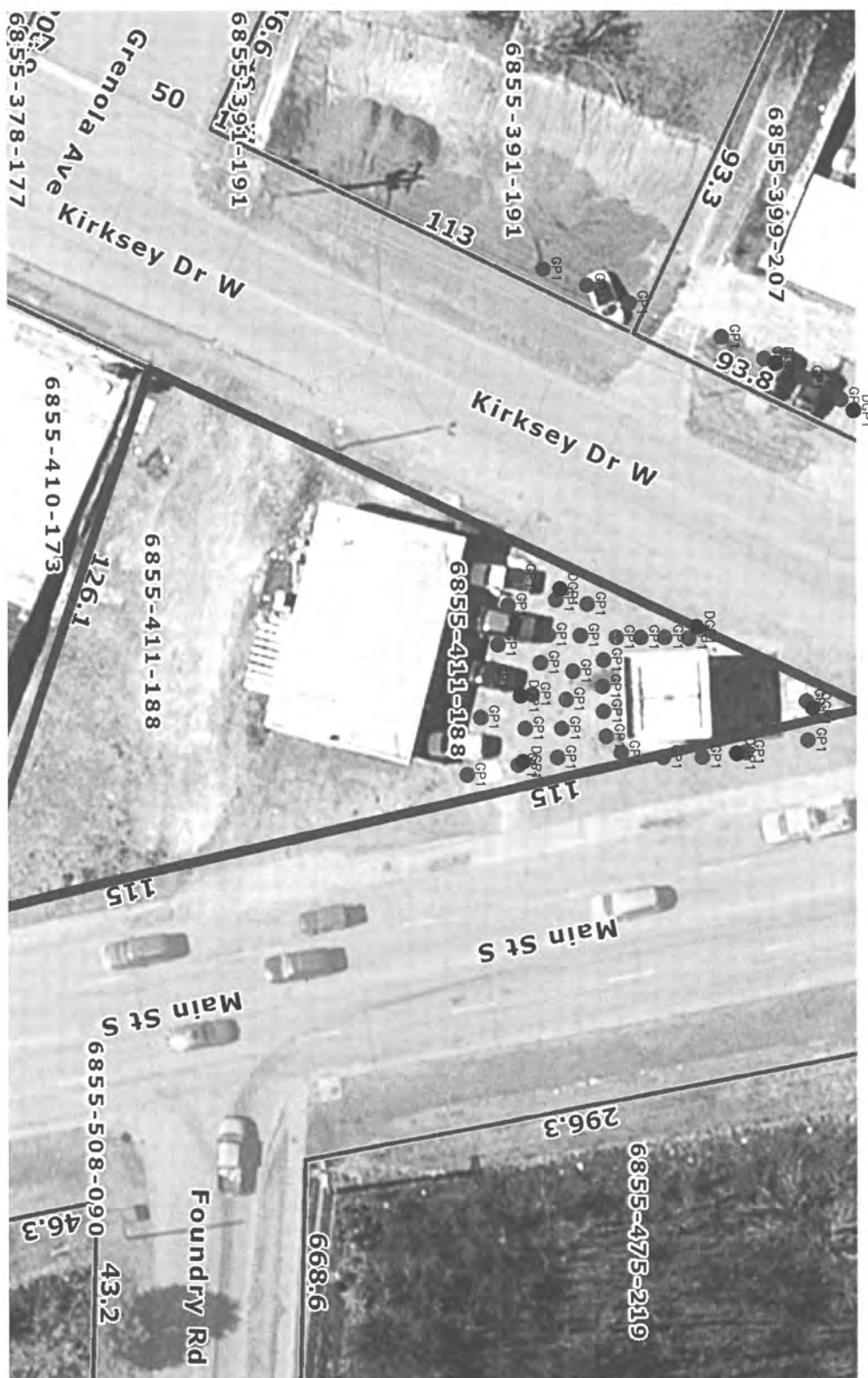
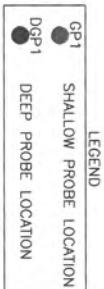
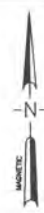


FIGURE 2
NEAR SITE POTENTIAL PROBING MAP
QUICK PANTRY #19
GREENWOOD SC. SITE ID# 04785



KLM Environmental, LLC

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



Foundry Rd oil in creek wide aerial



October 28, 2020

1:4 514
0 210 420 840 ft
0 62.5 125 250 m

Map 1 sheet of 2

Disclaimer: Map and parcel data are believed to be accurate, but accuracy is not guaranteed. This is not a legal document and should not be substituted for a title search or a legal survey or for



ASSESSMENT COMPONENT COST AGREEMENT SOUTH CAROLINA

Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
January 1, 2020

Facility Name: Quick Pantry # 19

UST Permit #: 04785

Cost Agreement #: _____

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
A. Plan Preparation				
1. Site-specific Work Plan		each	\$160.05	\$0.00
2. Tax Map		each	\$74.69	\$0.00
3. Tier II or Comp. Plan /QAPP Appendix B	1	each	\$250.00	\$250.00
B. Receptor Survey *				
		each	\$587.92	\$0.00
C. Survey (500 ft x 500 ft)				
1. Comprehensive Survey	6	each	\$1,109.68	\$6,658.08
Subsurface Geophysical Survey				
2. < 10 meters below grade		each	\$1,387.10	\$0.00
3. > 10 meters below grade		each	\$2,464.77	\$0.00
4. Geophysical UST or Drum Survey		each	\$970.97	\$0.00
D. Mob/Demob				
1. Equipment F,I,P	6	each	\$1,088.34	\$6,530.04
2. Personnel F,I,J,J,P,Q	6	each	\$451.34	\$2,708.04
3. Adverse Terrain Vehicle F,I,P	6	each	\$533.50	\$3,201.00
E.. Soil Borings (hand auger)*				
		foot	\$5.34	\$0.00
F. Soil Borings (requiring equipment, push technology, etc) or Field Screening (including water ssample, soil sample, soil gas sample, etc.)*				
1. Standard	9520	per foot	\$16.01	\$152,415.20
2. Fractured Rock		per foot	\$21.55	\$0.00
G. Soil Leachability Model				
		each	\$64.02	\$0.00
H. Abandonment (per foot)*				
1. 2" diameter or less	9520	per foot	\$3.31	\$31,511.20
2. Greater than 2" to 6" diameter		per foot	\$4.80	\$0.00
3. Dug/Bored well (up to 6 feet diameter)		per foot	\$16.00	\$0.00
I. Well Installation (per foot)*				
1. Water Table (hand augered)		per foot	\$11.31	\$0.00
2. Water Table (drill rig) 2" Diameter	480	per foot	\$40.55	\$19,464.00
3. Telescoping	140	per foot	\$53.35	\$7,469.00
4. Rock Drilling		per foot	\$61.89	\$0.00
5. 2" Rock Coring		per foot	\$32.97	\$0.00
6. Rock Multi-sampling ports/screens		per foot	\$35.64	\$0.00
7. Recovery Well (4" diameter)		per foot	\$48.02	\$0.00
8. Pushed Pre-packed screen (1.25" dia)		per foot	\$16.01	\$0.00
9. Rotasonic (2" diameter)		per foot	\$46.95	\$0.00
10. Re-develop Existing Well		per foot	\$11.74	\$0.00

J. Groundwater Sample Collection / Gauge Depth to Water or Product *				
1. Groundwater Purge	34	per well	\$64.02	\$2,176.68
2. Air or Vapors		sample	\$12.80	\$0.00
3. Water Supply Sample or Duplicate	2	sample	\$23.47	\$46.94
4. Groundwater No Purge or Duplicate or Grab	2	sample	\$29.88	\$59.76
5. Gauge Well only		sample	\$7.47	\$0.00
6. Sample Below Product		sample	\$12.80	\$0.00
7. Passive Diffusion Bag		sample	\$27.74	\$0.00
8. Field Blank	20	sample	\$26.25	\$525.00
9. Groundwater (low flow purge)		sample	\$97.10	\$0.00
10. Equipment Blank		sample	\$26.25	\$0.00
K. Laboratory Analyses-Groundwater				
1. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)		per sample	\$130.17	\$0.00
2. Lead, Filtered		per sample	\$14.72	\$0.00
3. Rush EPA Method 8260B		per sample	\$163.89	\$0.00
4. Trimethal, Butyl, and Isopropyl Benzenes		per sample	\$29.88	\$0.00
5. PAH's		per sample	\$64.66	\$0.00
6. Lead		per sample	\$17.07	\$0.00
7. EDB by EPA 8011		per sample	\$48.23	\$0.00
8. EDB by EPA Method 8011 Rush		per sample	\$72.77	\$0.00
9. 8 RCRA Metals		per sample	\$67.65	\$0.00
10. TPH (9070)		per sample	\$43.75	\$0.00
11. PH		per sample	\$5.55	\$0.00
12. BOD		per sample	\$21.34	\$0.00
13. Ethanol		per sample	\$15.79	\$0.00
K. Analyses-Drinking Water				
14. BTEXNM+1,2 DCA (524.2)	4	per sample	\$132.36	\$529.44
15. 7-OXYGENATES & ETHANOL (8260B)	4	per sample	\$97.90	\$391.60
16. EDB (504.1)	3	per sample	\$84.83	\$254.49
17. RCRA METALS (200.8)		per sample	\$106.70	\$0.00
K. Analyses-Soil				
18. BTEX + Naphth.	50	per sample	\$68.29	\$3,414.50
19. PAH's	50	per sample	\$68.33	\$3,416.50
20. 8 RCRA Metals		per sample	\$60.18	\$0.00
21. TPH-DRO (3550C/8015C)	1	per sample	\$42.68	\$42.68
22. TPH- GRO (5035B/8015C)	1	per sample	\$38.37	\$38.37
23. Grain size/hydrometer	4	per sample	\$110.97	\$443.88
24. Total Organic Carbon	1	per sample	\$32.65	\$32.65
K. Analyses-Air				
25. BTEX + Naphthalene	5	per sample	\$230.47	\$1,152.35
K. Analyses-Free Phase Product				
26. Hydrocarbon Fuel Identification		per sample	\$380.92	\$0.00
L. Aquifer Characterization*				
1. Pumping Test		per hour	\$24.54	\$0.00
2. Slug Test	4	per test	\$203.80	\$815.20
3. Fractured Rock		per test	\$106.70	\$0.00

M. Free Product Recovery Rate Test*		each	\$40.55		\$0.00
N. Fate/Transport Modeling					
1. Mathematical Model		each	\$106.70		\$0.00
2. Computer Model		each	\$106.70		\$0.00
O. Risk Evaluation					
1. Tier I Risk Evaluation		each	\$320.10		\$0.00
2. Tier II Risk Evaluation		each	\$106.70		\$0.00
P. Subsequent Survey*		each	\$260.00		\$0.00
Q. Disposal (gallons or tons)*					
1. Wastewater	500	gallon	\$0.60		\$300.00
2. Free Product		gallon	\$0.53		\$0.00
3. Soil Treatment/Disposal	10	ton	\$64.02		\$640.20
4. Drilling fluids	500	gallon	\$0.45		\$225.00
R. Miscellaneous (attach receipts)					
		each	\$0.00		\$0.00
		each	\$0.00		\$0.00
		each	\$0.00		\$0.00
T. Tier I Assessment (Use DHEC 3665 form)					
1. Southeast Region		standard	\$11,026.00		\$0.00
2. All Other Counties		standard	\$12,093.00		\$0.00
U. IGWA (Use DHEC 3666 form)					
1. Southeast Region		standard	\$3,803.00		\$0.00
2. All Other Counties		standard	\$4,123.00		\$0.00
22. Corrective Action (Use DHEC 3667 form)		PFP Bid			\$0.00
W. Aggressive Fluid & Vapor Recovery (AFVR)					
1. 8-hour Event*		per event	\$1,467.13		\$0.00
2. 24-hour Event*		per event	\$4,081.28		\$0.00
3. 48-hour Event*		per event	\$6,706.10		\$0.00
4. 96-hour Event*		per event	\$13,409.52		\$0.00
5. Off-gas Treatment 8 hour		per event	\$130.71		\$0.00
6. Off-gas Treatment 24 hour		per event	\$257.68		\$0.00
7. Off-gas Treatment 48 hour		per event	\$348.91		\$0.00
8. Off-gas Treatment 96 hour		per event	\$832.26		\$0.00
9. Off-gas Treatment 8 hour (w/chlorinated compounds)		per event	\$430.00		\$0.00
10. Off-gas Treatment 24 hour (w/chlorinated compounds)		per event	\$500.00		\$0.00
11. Off-gas Treatment 48 hour (w/chlorinated compounds)		per event	\$1,000.00		\$0.00
12. Off-gas Treatment 96 hour (w/chlorinated compounds)		per event	\$2,000.00		\$0.00
13. AFVR Effluent Disposal(w/chlorinated compounds)		gallon	\$0.50		\$0.00
14. AFVR Site Reconnaissance		each	\$216.87		\$0.00
15. Additional Hook-ups		each	\$27.48		\$0.00
16. AFVR Effluent Disposal		gallon	\$0.47		\$0.00
17. AFVR Mobilization/Demobilization		each	\$417.73		\$0.00
X. Granulated Activated Carbon (GAC) filter system installation & service:					
1. New GAC System Installation*		each	\$2,027.30		\$0.00
2. Refurbished GAC Sys. Install*		each	\$960.30		\$0.00
3. Filter replacement/removal*		each	\$373.45		\$0.00
4. GAC System removal, cleaning, & refurbishment*		each	\$293.43		\$0.00
5. GAC System housing*		each	\$266.75		\$0.00

6. In-line particulate filter		each	\$160.05		\$0.00
7. Additional piping & fittings		foot	\$1.60		\$0.00
Y. Well Repair					
1. Additional Copies of the Report Delivered	10	each	\$53.35		\$533.50
2. Repair 2x2 MW pad*		each	\$53.35		\$0.00
3. Repair 4x4 MW pad*		each	\$93.90		\$0.00
4. Replace well vault*		each	\$125.91		\$0.00
5. Replace well cover bolts		each	\$2.77		\$0.00
6. Replace locking well cap & lock		each	\$16.00		\$0.00
7. Replace/Repair stick-up*		each	\$142.98		\$0.00
8. Convert Flush-mount to Stick-up*		each	\$160.05		\$0.00
9. Convert Stick-up to Flush-mount*		each	\$138.71		\$0.00
10. Replace missing/illegible well ID plate		each	\$12.80		\$0.00
S. Report Prep & Project Management	12%	percent	\$245,245.30		\$29,429.44
TOTAL					\$274,674.74


DHEC D-4074 (1-2020) *The appropriate mobilization cost can be added to complete these tasks, as necessary

UST # 04785 Quick Pantry # 19

Mark Lee Keller <mkeller131@comcast.net>

Thu 4/1/2021 6:41 PM

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

 2 attachments (3 MB)

SCDHEC Work Plan UST # 04785 Quick Pantry # 19 Tier II.pdf; Drilling Permission Smith.pdf;

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

Caitlin,

Please find attached the Tier II plan for UST # 04785. I am optimistic that we won't need nearly this much footage as I don't want to live in Greenwood for the next 3 months. I put all the locations on the map as potential work locations as we have no idea what the release has done down stream. I would hope it didn't contaminate outside the run and we can eliminate most of the points once we are off the main site, but I can't say that at this point. So that's why you see so many points and the footage is high. I have a good plan coming together to stop this fuel from ever getting to this creek, but I need site access and permission to knock down some of the forest to get it done. I sent out an access agreement today certified mail with return receipt through the post office. They told me it should arrive to the property owner on Monday, Tuesday at the latest. I am sure it will go to their lawyer first and then maybe we can get the dialogue going with them to allow us to cut this problem off. That should take care of the people downstream, then we can concentrate on removing the product. Once we can get that permission to go on site and start knocking down trees to gain room to work, we can turn the tide on this problem. I will be working with you on this project closely going forward so I wanted to lay out what I see ahead of us in the near future. I will send you anything we get back from the property owner. I have included a copy of the letter I sent out this morning to this email. I tell them in the letter that time is of the essence here so I hope they get the picture. This problem has been ongoing since October so its not a new issue, its just a hot issue now. The local SCDHEC office and the fire department investigated this due to previous complaints. I will put a hard copy of this in the mail as well but wanted you to have it quickly by email. Please let me know if you need anything.

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

Mark Keller <mkeller131@comcast.net>

Mon 4/5/2021 9:33 AM

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. ***

No problem! I spoke to Mihir, Ryan, and Ashley on Friday. I will be submitting a separate plan to you today. Since we started the AFVR today to attack the source zone, and we are waiting for an access agreement with the property owner to intercept the contaminant plume, we are working on an encroachment permit with the City today. We are going to propose to treat some symptoms of the release now and let Mother Nature give us some important information before we ever drill the first hole. You should have that plan this afternoon. Let me know if you need anything.

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 Apr 5, 2021, at 9:18 AM, Reilly, Caitlin M. <reillycm@dhec.sc.gov> wrote:

Good morning Mark,

Thank you for the work plan, I will get it over to Ashleigh and Mihir to look over and approve. Sorry I'm responding to this email so late, I was out last Friday but I will get them today to get caught up on everything that was discussed last week. Please let me know if there is anything I can help you with and I look forward to working with you on this project.

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 [Facebook](#) [Twitter](#)

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

Sent: Thursday, April 1, 2021 6:39 PM

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

Subject: 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,

Please find attached the Tier II plan for UST # 04785. I am optimistic that we won't need nearly this much footage as I don't want to live in Greenwood for the next 3 months. I put all the locations on the map as potential work locations as we have no idea what the release has done down stream. I would hope it didn't contaminate outside the run and we can eliminate most of the points once we are off the main site, but I can't say that at this point. So that's why you see so many points and the footage is high. I have a good plan coming together to stop this fuel from ever getting to this creek, but I need site access and permission to knock down some of the forest to get it done. I sent out an access agreement today certified mail with return receipt through the post office. They told me it should arrive to the property owner on Monday, Tuesday at the latest. I am sure it will go to their lawyer first and then maybe we can get the dialogue going with them to allow us to cut this problem off. That should take care of the people downstream, then we can concentrate on removing the product. Once we can get that permission to go on site and start knocking down trees to gain room to work, we can turn the tide on this problem. I will be working with you on this project closely going forward so I wanted to lay out what I see ahead of us in the near future. I will send you anything we get back from the property owner. I have included a copy of the letter I sent out this morning to this email. I tell them in the letter that time is of the essence here so I hope they get the picture. This problem has been ongoing since October so its not a new issue, its just a hot issue now. The local SCDHEC office and the fire department investigated this due to previous complaints. I will put a hard copy of this in the mail as well but wanted you to have it quickly by email. Please let me know if you need anything.

Thanks

Mark

Mark L. Keller, PG
President

KLM Environmental, LLC

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



Site-Specific Work Plan for Approved ACQAP
Underground Storage Tank Management Division

To: Caitlin Reilly (SCDHEC Project Manager)
From: Mark L. Keller, PG (Contractor Project Manager)
Contractor: KLM Environmental, LLC UST Contractor Certification Number: 345

Facility Name: Quick Pantry # 19 UST Permit #: 04785
Facility Address: 1802 S. Main Street, Greenwood, SC
Responsible Party: Bahuchar Mata, LLC Phone: 864-378-6993
RP Address: 311 Oakmonte Circle, Greenwood, SC 29649
Property Owner (if different): SMVS Real Estate
Property Owner Address: 1802 S. Main Street, Greenwood, SC 29646
Current Use of Property: Convenience Store and Gasoline Station

Scope of Work (Please check all that apply)

☐ IGWA ☐ Tier II ☐ Groundwater Sampling ☐ GAC
☐ Tier I ☐ Monitoring Well Installation ☒ Other _____

Analyses (Please check all that apply)

Groundwater/Surface Water:

☐ BTEXNMDCA (8260D) ☐ Lead ☐ BOD ☐ Methane
☐ Oxygenates (8260D) ☐ 8 RCRA Metals ☐ Nitrate ☐ Ethanol
☐ EDB (8011) ☐ TPH ☐ Sulfate ☐ Dissolved Iron
☐ PAH (8270E) ☐ pH ☐ Other _____

Drinking Water Supply Wells:

☐ BTEXNMDCA (524.2) ☐ Mercury (200.8 245.1 or 245.2) ☐ EDB (504.1)
☐ Oxygenates & Ethanol (8260D) ☐ RCRA Metals (200.8)

Soil:

☐ BTEXNM ☐ Lead ☐ RCRA Metals ☐ TPH-DRO (3550B/8015B) ☐ Grain Size
☐ PAH ☐ Oil & Grease (9071) ☐ TPH-GRO (5030B/8015B) ☐ TOC

Air:

☐ BTEXN

Sample Collection (Estimate the number of samples of each matrix that are expected to be collected.)

_____ Soil _____ Water Supply Wells _____ Air _____ Field Blank
_____ Monitoring Wells _____ Surface Water _____ Duplicate _____ Trip Blank

Field Screening Methodology

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.

of shallow points proposed: _____ Estimated Footage: _____ feet per point
of deep points proposed: _____ Estimated Footage: _____ feet per point

Field Screening Methodology: _____

Permanent Monitoring Wells

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.

of shallow wells: _____ Estimated Footage: _____ feet per point
of deep wells: _____ Estimated Footage: _____ feet per point
of recovery wells: _____ Estimated Footage: _____ feet per point

Comments, if warranted:

UST Permit #: 04785 Facility Name: Quick Pantry # 19

Implementation Schedule (Number of calendar days from approval)

Field Work Start-Up: 7 DAYS Field Work Completion: 2 DAYS

Report Submittal: 30 DAYS # of Copies Provided to Property Owners: _____

Aquifer Characterization

Pump Test: ☐ Slug Test: ☐ (Check one and provide explanation below for choice)

Investigation Derived Waste Disposal

Soil: _____ Tons Purge Water: _____ Gallons

Drilling Fluids: _____ Gallons Free-Phase Product: _____ Gallons

Additional Details For This Scope of Work

For example, list wells to be sampled, wells to be abandoned/repared, well pads/bolts/caps to replace, details of AFVR event, etc.

Work has commenced on recovery of free product at the source area of the release as of 4/5/21. KLM is working on using the City of Greenwood's easement to access the property quickly while awaiting approval of the access agreement sent Certified Mail to the property owner across from Quick Pantry # 19. In the interim, KLM proposes to install oil/fuel absorbent booms across the affected waterway in 10 areas. The booms will be an estimated 20 feet in length. The purpose of this proposed action is two fold. We can hopefully stop the fuel entering the creek from reaching the housing authority by recovering it upstream. Second, by spacing the booms out at a set distance and monitoring them for fuel, we will allow the groundwater to show us where the fuel is migrating before we begin any delineation process. This should eliminate tens of thousands in drilling and clearing costs as we will have a better understanding of where the fuel is migrating for a much lower cost to the SUPERB fund. The cost represents two sets of booms to allow for changeout once saturated. If more is required we will submit an addendum.

Compliance With Annual Contractor Quality Assurance Plan (ACQAP)

N/A Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.

Name of Laboratory: _____

SCDHEC Certification Number: _____

Name of Laboratory Director: _____

N/A Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.

Name of Well Driller: _____

SCLLR Certification Number: _____

____ Other variations from ACQAP. Please describe below.

Attachments

1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:

North Arrow	Proposed monitoring well locations
Location of property lines	Legend with facility name and address, UST permit number, and bar scale
Location of buildings	Streets or highways (indicate names and numbers)
Previous soil sampling locations	Location of all present and former ASTs and USTs
Previous monitoring well locations	Location of all potential receptors
Proposed soil boring locations	
3. Assessment Component Cost Agreement, SCDHEC Form D-3664

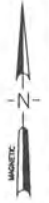
[illegible]

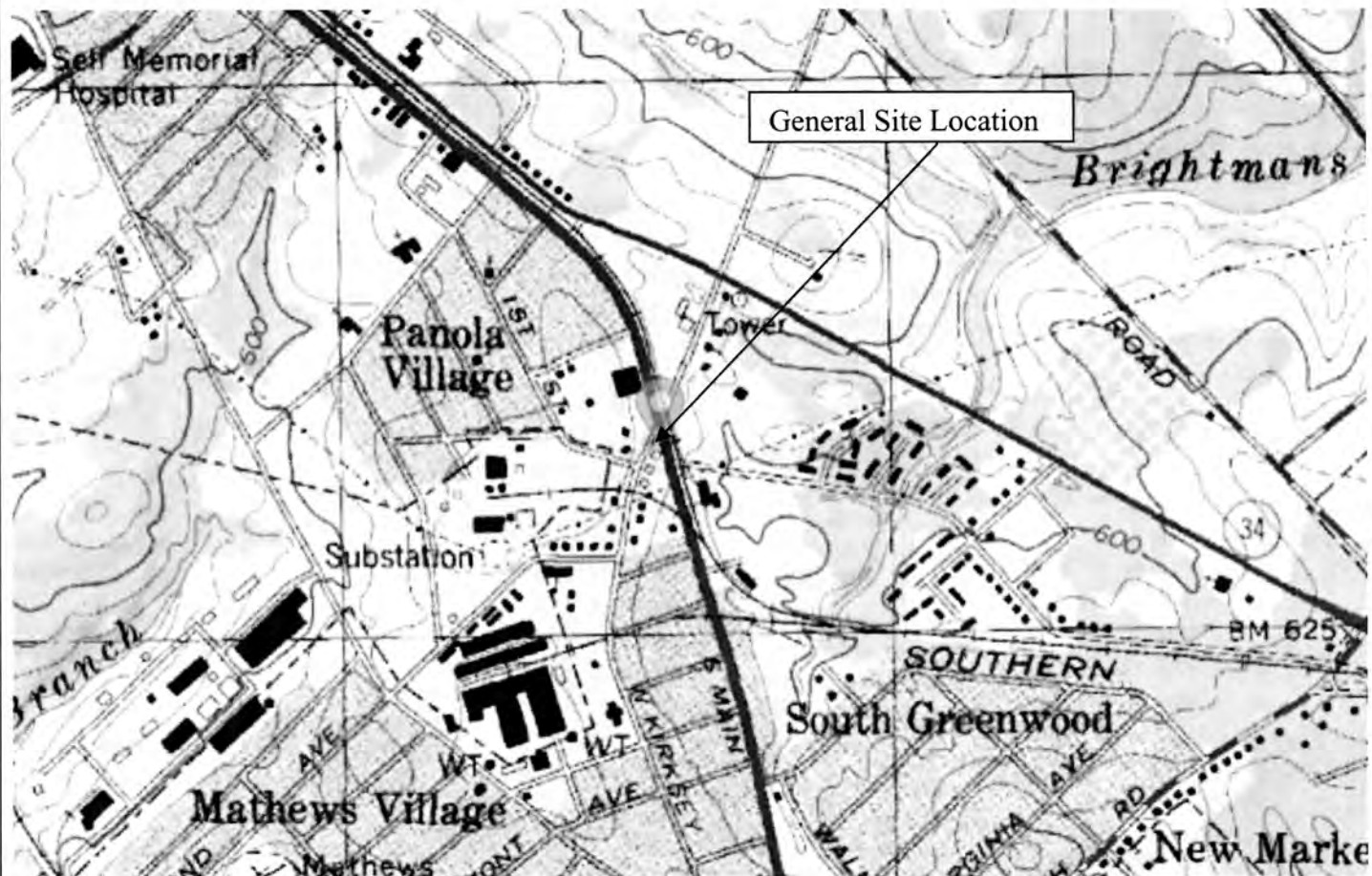
This service Map and parcel data are believed to be accurate. But accuracy is not guaranteed. They're not a legal document and should not be relied on for a title search, appraisal, survey or for

PROPOSED BOOM LOCATION

FIGURE 2
APPROXIMATE BOOM INSTALLATION
QUICK PANTRY #19
GREENWOOD, SC SITE ID# 04785

KLM Environmental, LLC





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



Healthy People. Healthy Communities.

**ASSESSMENT COMPONENT COST AGREEMENT
SOUTH CAROLINA**

Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
January 1, 2020

Facility Name: Quick Pantry # 19

UST Permit #: 04785

Cost Agreement #: _____

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
A. Plan Preparation				
1. Site-specific Work Plan	1	each	\$160.05	\$160.05
2. Tax Map		each	\$74.69	\$0.00
3. Tier II or Comp. Plan /QAPP Appendix B		each	\$250.00	\$0.00
B. Receptor Survey *		each	\$587.92	\$0.00
C. Survey (500 ft x 500 ft)				
1. Comprehensive Survey		each	\$1,109.68	\$0.00
Subsurface Geophysical Survey				
2. < 10 meters below grade		each	\$1,387.10	\$0.00
3. > 10 meters below grade		each	\$2,464.77	\$0.00
4. Geophysical UST or Drum Survey		each	\$970.97	\$0.00
D. Mob/Demob				
1. Equipment R	2	each	\$1,088.34	\$2,176.68
2. Personnel R	2	each	\$451.34	\$902.68
3. Adverse Terrain Vehicle R	2	each	\$533.50	\$1,067.00
E.. Soil Borings (hand auger)*		foot	\$5.34	\$0.00
F. Soil Borings (requiring equipment, push technology, etc) or Field Screening (including water ssample, soil sample, soil gas sample, etc.)*				
1. Standard		per foot	\$16.01	\$0.00
2. Fractured Rock		per foot	\$21.55	\$0.00
G. Soil Leachability Model		each	\$64.02	\$0.00
H. Abandonment (per foot)*				
1. 2" diameter or less		per foot	\$3.31	\$0.00
2. Greater than 2" to 6" diameter		per foot	\$4.80	\$0.00
3. Dug/Bored well (up to 6 feet diameter)		per foot	\$16.00	\$0.00
I. Well Installation (per foot)*				
1. Water Table (hand augered)		per foot	\$11.31	\$0.00
2. Water Table (drill rig) 2" Diameter		per foot	\$40.55	\$0.00
3. Telescoping		per foot	\$53.35	\$0.00
4. Rock Drilling		per foot	\$61.89	\$0.00
5. 2" Rock Coring		per foot	\$32.97	\$0.00
6. Rock Multi-sampling ports/screens		per foot	\$35.64	\$0.00
7. Recovery Well (4" diameter)		per foot	\$48.02	\$0.00
8. Pushed Pre-packed screen (1.25" dia)		per foot	\$16.01	\$0.00
9. Rotasonic (2" diameter)		per foot	\$46.95	\$0.00
10. Re-develop Existing Well		per foot	\$11.74	\$0.00

J. Groundwater Sample Collection / Gauge Depth to Water or Product *				
1. Groundwater Purge		per well	\$64.02	\$0.00
2. Air or Vapors		sample	\$12.80	\$0.00
3. Water Supply Sample or Duplicate		sample	\$23.47	\$0.00
4. Groundwater No Purge or Duplicate or Grab		sample	\$29.88	\$0.00
5. Gauge Well only		sample	\$7.47	\$0.00
6. Sample Below Product		sample	\$12.80	\$0.00
7. Passive Diffusion Bag		sample	\$27.74	\$0.00
8. Field Blank		sample	\$26.25	\$0.00
9. Groundwater (low flow purge)		sample	\$97.10	\$0.00
10. Equipment Blank		sample	\$26.25	\$0.00
K. Laboratory Analyses-Groundwater				
1. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)		per sample	\$130.17	\$0.00
2. Lead, Filtered		per sample	\$14.72	\$0.00
3. Rush EPA Method 8260B		per sample	\$163.89	\$0.00
4. Trimethal, Butyl, and Isopropyl Benzenes		per sample	\$29.88	\$0.00
5. PAH's		per sample	\$64.66	\$0.00
6. Lead		per sample	\$17.07	\$0.00
7. EDB by EPA 8011		per sample	\$48.23	\$0.00
8. EDB by EPA Method 8011 Rush		per sample	\$72.77	\$0.00
9. 8 RCRA Metals		per sample	\$67.65	\$0.00
10. TPH (9070)		per sample	\$43.75	\$0.00
11. PH		per sample	\$5.55	\$0.00
12. BOD		per sample	\$21.34	\$0.00
13. Ethanol		per sample	\$15.79	\$0.00
K. Analyses-Drinking Water				
14. BTEXNM+1,2 DCA (524.2)		per sample	\$132.36	\$0.00
15. 7-OXYGENATES & ETHANOL (8260B)		per sample	\$97.90	\$0.00
16. EDB (504.1)		per sample	\$84.83	\$0.00
17. RCRA METALS (200.8)		per sample	\$106.70	\$0.00
K. Analyses-Soil				
18. BTEX + Naphth.		per sample	\$68.29	\$0.00
19. PAH's		per sample	\$68.33	\$0.00
20. 8 RCRA Metals		per sample	\$60.18	\$0.00
21. TPH-DRO (3550C/8015C)		per sample	\$42.68	\$0.00
22. TPH- GRO (5035B/8015C)		per sample	\$38.37	\$0.00
23. Grain size/hydrometer		per sample	\$110.97	\$0.00
24. Total Organic Carbon		per sample	\$32.65	\$0.00
K. Analyses-Air				
25. BTEX + Naphthalene		per sample	\$230.47	\$0.00
K. Analyses-Free Phase Product				
26. Hydrocarbon Fuel Identification		per sample	\$380.92	\$0.00
L. Aquifer Characterization*				
1. Pumping Test		per hour	\$24.54	\$0.00
2. Slug Test		per test	\$203.80	\$0.00
3. Fractured Rock		per test	\$106.70	\$0.00

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2. Free Product		gallon	\$0.53		\$0.00
3. Soil Treatment/Disposal		ton	\$64.02		\$0.00
4. Drilling fluids		gallon	\$0.45		\$0.00
R. Miscellaneous (attach receipts)					
Booms + Shipping	1	each	\$6,745.18		\$6,745.18
Stakes + Shipping	1	each	\$90.29		\$90.29
		each	\$0.00		\$0.00
T. Tier I Assessment (Use DHEC 3665 form)					
1. Southeast Region		standard	\$11,026.00		\$0.00
2. All Other Counties		standard	\$12,093.00		\$0.00
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12. Off-gas Treatment 96 hour (w/chlorinated compounds)		per event	\$2,000.00		\$0.00
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Y. Well Repair					
1. Additional Copies of the Report Delivered		each	\$53.35		\$0.00
2. Repair 2x2 MW pad*		each	\$53.35		\$0.00
3. Repair 4x4 MW pad*		each	\$93.90		\$0.00
4. Replace well vault*		each	\$125.91		\$0.00
5. Replace well cover bolts		each	\$2.77		\$0.00
6. Replace locking well cap & lock		each	\$16.00		\$0.00
7. Replace/Repair stick-up*		each	\$142.98		\$0.00
8. Convert Flush-mount to Stick-up*		each	\$160.05		\$0.00
9. Convert Stick-up to Flush-mount*		each	\$138.71		\$0.00
10. Replace missing/illegible well ID plate		each	\$12.80		\$0.00
S. Report Prep & Project Management	12%	percent	\$11,141.88		\$1,337.03
TOTAL					\$12,478.91

DHEC D-4074 (1-2020) *The appropriate mobilization cost can be added to complete these tasks, as necessary

Shopping Cart

Cart # 24629789



BOM304
PIG® Oil-Only Absorbent Boom
8" x 10', Absorbs up to 12 gal. per boom, 4 booms

40

\$149.00

Ship One Time

▼

\$5,960.00



No Guff Guarantee®
Every product. Every penny. Every time.

Product Subtotal: \$5,960.00

Shipping estimate for ZIP 29456 ([change](#))

Select a Shipping method to calculate:

[Standard Shipping](#) \$785.18

Sorry there are no expedited options.

Tax ⓘ TBD

Total: \$5,960.00

Today's Daily Deal

DAILY DEAL - LIMIT 1



WIP200 ★★★★★ (14)

PIG® PR40 All-Purpose Wipers
Great Alternative to WypAll L40, 8.875" x 13.25", 225 wipers
~~Was \$25.00 - \$28.00~~
Now \$23.80

DAILY DEAL - LIMIT 1



KIT274 ★★★★★ (8)

PIG® Spill Kit in See-Thru Bag
Absorbs up to 5 gal., Absorbs Oils, Coolants, Solvents, Water - Universal
~~Was \$64.00 - \$67.00~~
Now \$56.95

SIGN UP FOR PIG DEALS

SIGN UP

Shopping Cart

Part Number	Description	Qty	Price
FLT1260-25 [Remove (/cgi-local/webcat/products_page.cgi?delete-1518=1&mode=2&func=buy)]	1 X 2 X 60" Economy Wooden Stakes 25/Bundle (BN)	<input type="text" value="1"/> <input type="button" value="Update"/>	\$ 56.00

Total: \$ 56.00

Sales tax and shipping charges, if any, will be added later.

FLT Geosystems

809 Progresso Dr., Fort Lauderdale, FL 33304

Phone: (954) 763-5300 · Fax: (954) 462-4121

Hours: Monday - Friday 8AM - 5PM Eastern Time

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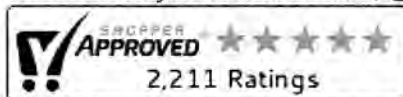
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(<https://www.shopperapproved.com/reviews/FLTGeosystems.com/>)

4.8 ★★★★★

Google

Customer Reviews



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FedEx Standard Overnight: \$242.56

(Next-business-day delivery by 3 p.m. to most U.S. addresses)

FedEx 2Day: \$79.07

(By 4:30 p.m. in 2 business days to most areas)

FedEx Express Saver: \$74.43

(Delivery to businesses by 4:30 p.m. and to residences by 8 p.m. in 3 business days)

FedEx Ground: \$40.29

(1-5 business days within the contiguous U.S., 3-7 business days to and from Alaska and Hawaii)

Calculate Shipping

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Country:

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RE: UST #04785 Abatement Actions

Mark Lee Keller <mkeller131@comcast.net>

Mon 4/5/2021 11:48 AM

To: Thrash, Ashleigh <thrasham@dhec.sc.gov>; Mehta, Mihir <mehtam@dhec.sc.gov>

Cc: shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>; Reilly, Caitlin M. <reillycm@dhec.sc.gov>

 1 attachments (2 MB)

SCDHEC Work Plan UST # 04785 Quick Pantry # 19 Containment Booms.pdf;

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

Ashley and Caitlin,

We have started work on recovering the fuel from the source area today by way of the approved AFVR activities. While there, we are tracking down who we need to speak with regarding any right-of-way that may exist for utilities running across the property as well as for the drainage stream/canal. Once we know that we can hopefully use an encroachment permit on that right-of-way to gain limited access. The access agreement with the property owner was sent last week and should be delivered today to the property owner. It was sent certified with return receipt. Once we have that we can submit a plan for excavation to create at least two interception areas to stop the product before it reaches the creek and begin to fight it back to the source zone.

So currently we are attacking the source, we have a plan to intercept the fuel once we have access, and we have a plan to assess the extent of the release. We have another plan we would like to propose that will save the SUPERB fund tens of thousands in drilling costs trying to delineate the contaminant plume on the property we need access to. We propose to install a set of 10 booms across the creek at specified intervals. I have attached a map to the plan as Figure 2. The purpose of this is twofold, which I think everything we do needs to have a dual purpose or we are wasting SUPERB money and this site may need every dime under the cap. The immediate purpose is to stop the fuel from traveling down the creek and into the housing authority area. That is the immediate concern obviously. But second, we can use the recovery rates of the booms to let mother nature tell us where the plume is flowing and entering the creek. We will be armed with that information before we ever drill the first probe hole. That should eliminate numerous probe points which will cut the drilling costs dramatically over what could be needed if we have no information to start the job with. The booms are a much cheaper alternative and serve two purposes. Looking at the costs, if we can save 500 feet of probing, when you account for the equipment and personnel mobs, the booms pay for themselves. I anticipate it will save us thousands of feet honestly. Take a look at what we have proposed and feel free to comment on something you see we could add or subtract. This action shouldn't require property owner access if we can get the City of Greenwood to assist us. It can be done quickly once we have the booms shipped here, and we can change them out fairly easily. Disposal can be addressed with an addendum once we know what we are recovering volume wise and if we need to change these out frequently or infrequently. The plan has cost built in to change all the booms out 1 time.

I will be available anytime today or tomorrow, or Thursday and Friday. Just let me know for any conference call we can get with Ms. Gorman.

Thanks

Mark



Re: UST # 04785

Mark Keller <mkeller131@comcast.net>

Tue 4/6/2021 12:39 PM

To: Vincent, Malayika M. <vincenMM@dhec.sc.gov>

Cc: Mehta, Mihir <mehtam@dhec.sc.gov>; Reilly, Caitlin M. <reillycm@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>

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Malayika

There are no other wells to monitor for vacuum, you are correct. But we are performing the same readings and using the same procedure otherwise as an AFVR. We will generate the same output calculating the recovery rate based on off gas readings.

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 Apr 6, 2021, at 11:23 AM, Vincent, Malayika M. <vincenMM@dhec.sc.gov> wrote:

Good morning Mark,

Thank you for sending a notification last week for an AFVR event occurring at 04785. I have a question regarding the event. Since you're just using the observation well near the tank pit, is it more of a vacuum event instead of a traditional AFVR where you would need to monitor 2 adjacent monitor wells?

Thank you,
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

Office: (803) 898-0634

Mobile: (803) 922-6026

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

 Image

From: Mark Lee Keller <mkeller131@comcast.net>
Sent: Friday, April 2, 2021 11:20:40 AM
To: Mehta, Mihir <mehtam@dhec.sc.gov>
Cc: Vincent, Malayika M. <vincenMM@dhec.sc.gov>; Reilly, Caitlin M. <reillycm@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>
Subject: RE: UST # 04785

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I am in receipt of your email this morning. I will return that email once I have cleared the requirements and made scheduling adjustments to accommodate this emergency action for the site.

Mark L. Keller, PG
President

KLM Environmental, LLC

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

From: Mehta, Mihir <mehtam@dhec.sc.gov>
Sent: Friday, April 2, 2021 10:35 AM
To: mkeller131@comcast.net
Cc: Vincent, Malayika M. <vincenMM@dhec.sc.gov>; Reilly, Caitlin M. <reillycm@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>; shahpetroinc@yahoo.com; mikepatel8905@yahoo.com; Mehta, Mihir <mehtam@dhec.sc.gov>
Subject: Re: UST # 04785

Mark, you should be receiving the requested information today. Please make sure to copy Ashleigh Thrash, Manager and supervisor of the project manager, Caitlin Reilly to maintain continuity in this process and reduce potential delays. Please continue to cc Ryan Ariail on such correspondence as he has been involved in this project.

Also, I emailed you this morning requesting a time convenient to you to discuss items you have written in the separate email correspondence. Please let me know your availability and we can set up a conference call.

Regards
Mihir

Mihir Mehta, P.E.

Director, UST Management Division

S.C. Dept. of Health & Environmental Control

Office: (803) 898-0623

Mobile: (803) 240-1998

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

From: Mark Lee Keller <mkeller131@comcast.net>**Sent:** Friday, April 2, 2021 10:22 AM**To:** Reilly, Caitlin M. <reillicm@dhec.sc.gov>; Vincent, Malayika M. <vincenMM@dhec.sc.gov>;
Mehta, Mihir <mehtam@dhec.sc.gov>**Subject:** UST # 04785

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Caitlin, Malayika, and Mihir,

We have the lone approved AFVR event for this site scheduled to begin on Monday, April 5th. It will conclude on Friday, April 9th. We require a copy of the approved costs for this event as it was not included in the directive. We require that to ensure all costs are pre-approved, even if they are born by the responsible party. If we can not get that today, we will be forced to delay the event until the following week.

Thank you

Mark L. Keller, PG
President**KLM Environmental, LLC**

PO Box 2704

Goose Creek, SC 29445

843-870-4285 Cell



Report of Analysis

Greenwood Metro District
110 Metro Drive
Greenwood, SC 29646
Attention: Brooke Montgomery

Project Name: Gas Leak Sample

Lot Number: **WC31075**

Date Completed: 04/12/2021



04/13/2021 4:39 PM

Approved and released by:
Project Manager II: **Lucas Odom**



The electronic signature above is the equivalent of a handwritten signature.
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PACE ANALYTICAL SERVICES, LLC

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Case Narrative Greenwood Metro District Lot Number: WC31075

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Pace Project Manager listed on the cover page.

PACE ANALYTICAL SERVICES, LLC

Sample Summary Greenwood Metro District Lot Number: WC31075

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	Manhole	Aqueous	03/30/2021 1541	03/31/2021

(1 sample)

PACE ANALYTICAL SERVICES, LLC

Detection Summary Greenwood Metro District Lot Number: WC31075

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	Manhole	Aqueous	Acetone	8260D	27		ug/L	6

(1 detection)

Client: **Greenwood Metro District**Laboratory ID: **WC31075-001**Description: **Manhole**Matrix: **Aqueous**Date Sampled: **03/30/2021 1541**Date Received: **03/31/2021**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(HEM (oil and) 1664B	1	04/02/2021 1901	SMA		87826
1		(SGT - HEM (n) 1664B	1	04/02/2021 1901	SMA		87825

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
HEM (oil and grease)		1664B	ND		5.0	mg/L	1
SGT - HEM (non-polar material)		1664B	ND		5.0	mg/L	1

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

Q = Surrogate failure

ND = Not detected at or above the LOQ

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

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Client: Greenwood Metro District				Laboratory ID: WC31075-001			
Description: Manhole				Matrix: Aqueous			
Date Sampled: 03/30/2021 1541							
Date Received: 03/31/2021							

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	04/08/2021 1634	BWS		88379
2	5030B	8260D	1	04/10/2021 2152	DJG		88608

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
Acetone	67-64-1	8260D	27		20	ug/L	2
Benzene	71-43-2	8260D	ND		5.0	ug/L	1
Bromodichloromethane	75-27-4	8260D	ND		5.0	ug/L	1
Bromoform	75-25-2	8260D	ND		5.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260D	ND		5.0	ug/L	1
2-Butanone (MEK)	78-93-3	8260D	ND		10	ug/L	2
Carbon disulfide	75-15-0	8260D	ND		5.0	ug/L	1
Carbon tetrachloride	56-23-5	8260D	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260D	ND		5.0	ug/L	1
Chloroethane	75-00-3	8260D	ND		5.0	ug/L	1
Chloroform	67-66-3	8260D	ND		5.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260D	ND		5.0	ug/L	1
Cyclohexane	110-82-7	8260D	ND		5.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260D	ND		5.0	ug/L	1
Dibromochloromethane	124-48-1	8260D	ND		5.0	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260D	ND		5.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260D	ND		5.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260D	ND		5.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260D	ND		5.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260D	ND		5.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260D	ND		5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260D	ND		5.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260D	ND		5.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260D	ND		5.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260D	ND		5.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260D	ND		5.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260D	ND		5.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260D	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260D	ND		5.0	ug/L	1
2-Hexanone	591-78-6	8260D	ND		10	ug/L	1
Isopropylbenzene	98-82-8	8260D	ND		5.0	ug/L	1
Methyl acetate	79-20-9	8260D	ND		5.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260D	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260D	ND		10	ug/L	1
Methylcyclohexane	108-87-2	8260D	ND		5.0	ug/L	1
Methylene chloride	75-09-2	8260D	ND		5.0	ug/L	1
Naphthalene	91-20-3	8260D	ND		5.0	ug/L	1
Styrene	100-42-5	8260D	ND		5.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260D	ND		5.0	ug/L	1
Tetrachloroethene	127-18-4	8260D	ND		5.0	ug/L	1
Toluene	108-88-3	8260D	ND		5.0	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260D	ND		5.0	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260D	ND		5.0	ug/L	1

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	Q = Surrogate failure
ND = Not detected at or above the LOQ	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis		S = MS/MSD failure

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Volatile Organic Compounds by GC/MS

Client: Greenwood Metro District	Laboratory ID: WC31075-001
Description: Manhole	Matrix: Aqueous
Date Sampled: 03/30/2021 1541	
Date Received: 03/31/2021	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260D	1	04/08/2021 1634	BWS		88379
2	5030B	8260D	1	04/10/2021 2152	DJG		88608

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	Units	Run
1,1,1-Trichloroethane	71-55-6	8260D	ND		5.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260D	ND		5.0	ug/L	1
Trichloroethene	79-01-6	8260D	ND		5.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260D	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260D	ND		2.0	ug/L	1
Xylenes (total)	1330-20-7	8260D	ND		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
Bromofluorobenzene		113	70-130		101	70-130
1,2-Dichloroethane-d4		106	70-130		100	70-130
Toluene-d8		110	70-130		101	70-130

LOQ = Limit of Quantitation

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

Q = Surrogate failure

ND = Not detected at or above the LOQ

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

L = LCS/LCSD failure

H = Out of holding time

W = Reported on wet weight basis

S = MS/MSD failure

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QC Summary

Inorganic non-metals - MB

Sample ID: WQ87825-001

Matrix: Aqueous

Batch: 87825

Analytical Method: 1664B

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
SGT - HEM (non-polar material)	ND		1	5.0	mg/L	04/02/2021 1901

LOQ = Limit of Quantitation

ND = Not detected at or above the LOQ

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Inorganic non-metals - LCS

Sample ID: WQ87825-002

Matrix: Aqueous

Batch: 87825

Analytical Method: 1664B

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
SGT - HEM (non-polar material)	20	19		1	95	64-132	04/02/2021 1901

LOQ = Limit of Quantitation

ND = Not detected at or above the LOQ

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Inorganic non-metals - MS

Sample ID: WC31075-001MS

Matrix: Aqueous

Batch: 87825

Analytical Method: 1664B

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
SGT - HEM (non-polar material)	ND	40	36		1	91	64-132	04/02/2021 1901

LOQ = Limit of Quantitation

ND = Not detected at or above the LOQ

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Inorganic non-metals - MB

Sample ID: WQ87826-001

Matrix: Aqueous

Batch: 87826

Analytical Method: 1664B

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
HEM (oil and grease)	ND		1	5.0	mg/L	04/02/2021 1901

LOQ = Limit of Quantitation

ND = Not detected at or above the LOQ

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Inorganic non-metals - LCS

Sample ID: WQ87826-002

Matrix: Aqueous

Batch: 87826

Analytical Method: 1664B

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
HEM (oil and grease)	40	39		1	98	78-114	04/02/2021 1901

LOQ = Limit of Quantitation

ND = Not detected at or above the LOQ

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

Inorganic non-metals - MS

Sample ID: WC31075-001MS

Matrix: Aqueous

Batch: 87826

Analytical Method: 1664B

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
HEM (oil and grease)	ND	40	36		1	91	78-114	04/02/2021 1901

LOQ = Limit of Quantitation

ND = Not detected at or above the LOQ

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ88379-001

Matrix: Aqueous

Batch: 88379

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Benzene	ND		1	5.0	ug/L	04/08/2021 1008
Bromodichloromethane	ND		1	5.0	ug/L	04/08/2021 1008
Bromoform	ND		1	5.0	ug/L	04/08/2021 1008
Bromomethane (Methyl bromide)	ND		1	5.0	ug/L	04/08/2021 1008
Carbon disulfide	ND		1	5.0	ug/L	04/08/2021 1008
Carbon tetrachloride	ND		1	5.0	ug/L	04/08/2021 1008
Chlorobenzene	ND		1	5.0	ug/L	04/08/2021 1008
Chloroethane	ND		1	5.0	ug/L	04/08/2021 1008
Chloroform	ND		1	5.0	ug/L	04/08/2021 1008
Chloromethane (Methyl chloride)	ND		1	5.0	ug/L	04/08/2021 1008
Cyclohexane	ND		1	5.0	ug/L	04/08/2021 1008
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	5.0	ug/L	04/08/2021 1008
Dibromochloromethane	ND		1	5.0	ug/L	04/08/2021 1008
1,2-Dibromoethane (EDB)	ND		1	5.0	ug/L	04/08/2021 1008
1,2-Dichlorobenzene	ND		1	5.0	ug/L	04/08/2021 1008
1,3-Dichlorobenzene	ND		1	5.0	ug/L	04/08/2021 1008
1,4-Dichlorobenzene	ND		1	5.0	ug/L	04/08/2021 1008
Dichlorodifluoromethane	ND		1	5.0	ug/L	04/08/2021 1008
1,1-Dichloroethane	ND		1	5.0	ug/L	04/08/2021 1008
1,2-Dichloroethane	ND		1	5.0	ug/L	04/08/2021 1008
1,1-Dichloroethene	ND		1	5.0	ug/L	04/08/2021 1008
cis-1,2-Dichloroethene	ND		1	5.0	ug/L	04/08/2021 1008
trans-1,2-Dichloroethene	ND		1	5.0	ug/L	04/08/2021 1008
1,2-Dichloropropane	ND		1	5.0	ug/L	04/08/2021 1008
cis-1,3-Dichloropropene	ND		1	5.0	ug/L	04/08/2021 1008
trans-1,3-Dichloropropene	ND		1	5.0	ug/L	04/08/2021 1008
Ethylbenzene	ND		1	5.0	ug/L	04/08/2021 1008
2-Hexanone	ND		1	10	ug/L	04/08/2021 1008
Isopropylbenzene	ND		1	5.0	ug/L	04/08/2021 1008
Methyl acetate	ND		1	5.0	ug/L	04/08/2021 1008
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	ug/L	04/08/2021 1008
4-Methyl-2-pentanone	ND		1	10	ug/L	04/08/2021 1008
Methylcyclohexane	ND		1	5.0	ug/L	04/08/2021 1008
Methylene chloride	ND		1	5.0	ug/L	04/08/2021 1008
Naphthalene	ND		1	5.0	ug/L	04/08/2021 1008
Styrene	ND		1	5.0	ug/L	04/08/2021 1008
1,1,2,2-Tetrachloroethane	ND		1	5.0	ug/L	04/08/2021 1008
Tetrachloroethene	ND		1	5.0	ug/L	04/08/2021 1008
Toluene	ND		1	5.0	ug/L	04/08/2021 1008
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND		1	5.0	ug/L	04/08/2021 1008
1,2,4-Trichlorobenzene	ND		1	5.0	ug/L	04/08/2021 1008
1,1,1-Trichloroethane	ND		1	5.0	ug/L	04/08/2021 1008
1,1,2-Trichloroethane	ND		1	5.0	ug/L	04/08/2021 1008
Trichloroethene	ND		1	5.0	ug/L	04/08/2021 1008

LOQ = Limit of Quantitation

ND = Not detected at or above the LOQ

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Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ88379-001

Matrix: Aqueous

Batch: 88379

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Trichlorofluoromethane	ND		1	5.0	ug/L	04/08/2021 1008
Vinyl chloride	ND		1	2.0	ug/L	04/08/2021 1008
Xylenes (total)	ND		1	5.0	ug/L	04/08/2021 1008
Surrogate	Q	% Rec	Acceptance Limit			
Bromofluorobenzene		114	70-130			
1,2-Dichloroethane-d4		102	70-130			
Toluene-d8		112	70-130			

LOQ = Limit of Quantitation

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ88379-002

Matrix: Aqueous

Batch: 88379

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Benzene	50	51		1	101	70-130	04/08/2021 0907
Bromodichloromethane	50	53		1	105	70-130	04/08/2021 0907
Bromoform	50	44		1	88	70-130	04/08/2021 0907
Bromomethane (Methyl bromide)	50	63		1	126	70-130	04/08/2021 0907
Carbon disulfide	50	50		1	100	70-130	04/08/2021 0907
Carbon tetrachloride	50	51		1	102	70-130	04/08/2021 0907
Chlorobenzene	50	51		1	103	70-130	04/08/2021 0907
Chloroethane	50	50		1	101	70-130	04/08/2021 0907
Chloroform	50	48		1	97	70-130	04/08/2021 0907
Chloromethane (Methyl chloride)	50	56		1	113	60-140	04/08/2021 0907
Cyclohexane	50	48		1	96	70-130	04/08/2021 0907
1,2-Dibromo-3-chloropropane (DBCP)	50	43		1	85	70-130	04/08/2021 0907
Dibromochloromethane	50	47		1	94	70-130	04/08/2021 0907
1,2-Dibromoethane (EDB)	50	54		1	108	70-130	04/08/2021 0907
1,2-Dichlorobenzene	50	52		1	103	70-130	04/08/2021 0907
1,3-Dichlorobenzene	50	52		1	105	70-130	04/08/2021 0907
1,4-Dichlorobenzene	50	50		1	100	70-130	04/08/2021 0907
Dichlorodifluoromethane	50	61		1	121	60-140	04/08/2021 0907
1,1-Dichloroethane	50	49		1	98	70-130	04/08/2021 0907
1,2-Dichloroethane	50	49		1	99	70-130	04/08/2021 0907
1,1-Dichloroethene	50	52		1	103	70-130	04/08/2021 0907
cis-1,2-Dichloroethene	50	51		1	102	70-130	04/08/2021 0907
trans-1,2-Dichloroethene	50	51		1	102	70-130	04/08/2021 0907
1,2-Dichloropropane	50	51		1	103	70-130	04/08/2021 0907
cis-1,3-Dichloropropene	50	56		1	112	70-130	04/08/2021 0907
trans-1,3-Dichloropropene	50	46		1	92	70-130	04/08/2021 0907
Ethylbenzene	50	53		1	106	70-130	04/08/2021 0907
2-Hexanone	100	97		1	97	70-130	04/08/2021 0907
Isopropylbenzene	50	54		1	108	70-130	04/08/2021 0907
Methyl acetate	50	52		1	104	70-130	04/08/2021 0907
Methyl tertiary butyl ether (MTBE)	50	48		1	95	70-130	04/08/2021 0907
4-Methyl-2-pentanone	100	110		1	106	70-130	04/08/2021 0907
Methylcyclohexane	50	53		1	106	70-130	04/08/2021 0907
Methylene chloride	50	48		1	97	70-130	04/08/2021 0907
Naphthalene	50	48		1	95	70-130	04/08/2021 0907
Styrene	50	57		1	113	70-130	04/08/2021 0907
1,1,2,2-Tetrachloroethane	50	54		1	108	70-130	04/08/2021 0907
Tetrachloroethene	50	52		1	103	70-130	04/08/2021 0907
Toluene	50	52		1	103	70-130	04/08/2021 0907
1,1,2-Trichloro-1,2,2-Trifluoroethane	50	53		1	106	70-130	04/08/2021 0907
1,2,4-Trichlorobenzene	50	54		1	107	70-130	04/08/2021 0907
1,1,1-Trichloroethane	50	49		1	99	70-130	04/08/2021 0907
1,1,2-Trichloroethane	50	52		1	104	70-130	04/08/2021 0907
Trichloroethene	50	51		1	102	70-130	04/08/2021 0907

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ88379-002

Matrix: Aqueous

Batch: 88379

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Trichlorofluoromethane	50	51		1	102	70-130	04/08/2021 0907
Vinyl chloride	50	62		1	123	70-130	04/08/2021 0907
Xylenes (total)	100	110		1	108	70-130	04/08/2021 0907
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		93	70-130				
1,2-Dichloroethane-d4		89	70-130				
Toluene-d8		89	70-130				

LOQ = Limit of Quantitation

ND = Not detected at or above the LOQ

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

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+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MB

Sample ID: WQ88608-001

Matrix: Aqueous

Batch: 88608

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Result	Q	Dil	LOQ	Units	Analysis Date
Acetone	ND		1	20	ug/L	04/10/2021 1500
2-Butanone (MEK)	ND		1	10	ug/L	04/10/2021 1500
Surrogate	Q	% Rec	Acceptance Limit			
Bromofluorobenzene		104	70-130			
1,2-Dichloroethane-d4		100	70-130			
Toluene-d8		103	70-130			

LOQ = Limit of Quantitation

ND = Not detected at or above the LOQ

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

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+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - LCS

Sample ID: WQ88608-002

Matrix: Aqueous

Batch: 88608

Prep Method: 5030B

Analytical Method: 8260D

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
Acetone	100	98		1	98	60-140	04/10/2021 1410
2-Butanone (MEK)	100	100		1	100	70-130	04/10/2021 1410
Surrogate	Q	% Rec	Acceptance Limit				
Bromofluorobenzene		93	70-130				
1,2-Dichloroethane-d4		89	70-130				
Toluene-d8		92	70-130				

LOQ = Limit of Quantitation

ND = Not detected at or above the LOQ

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40%

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Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Chain of Custody and Miscellaneous Documents



PAGE ANALYTICAL SERVICES, LLC

106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.nacelabs.com

Number 111501

[illegible]

DISTRIBUTION: WHITE & YELLOW-Returned to Laboratory with Sample(s): FURK-Field/Client Copy

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PACE ANALYTICAL SERVICES, LLC



Sample Receipt Checklist (SRC) (ME0018C-15)

Issuing Authority: Pace ENV - WCOL

Revised: 9/29/2020

Page 1 of 1

Sample Receipt Checklist (SRC)

Client: Greenwood Metro

Cooler Inspected by/date: JSH / 03/31/2021

Lot #: WC31075

Means of receipt: <input checked="" type="checkbox"/> Pace <input type="checkbox"/> Client <input type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Other:	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	1. Were custody seals present on the cooler?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	2. If custody seals were present, were they intact and unbroken?
pH Strip ID: NA Chlorine Strip ID: NA Tested by: NA	
Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: NA	
3.6 / 3.6 °C NA / NA °C NA / NA °C NA / NA °C	
Method: <input checked="" type="checkbox"/> Temperature Blank <input type="checkbox"/> Against Bottles IR Gun ID: 5 IR Gun Correction Factor: 0 °C	
Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Dry Ice <input type="checkbox"/> None	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	4. Is the commercial courier's packing slip attached to this form?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5. Were proper custody procedures (relinquished/received) followed?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6. Were sample IDs listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7. Were sample IDs listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8. Was collection date & time listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9. Was collection date & time listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10. Did all container label information (ID, date, time) agree with the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. Were tests to be performed listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13. Was adequate sample volume available?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	14. Were all samples received within 1/2 the holding time or 48 hours, whichever comes first?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA	16. For VOA and RSK-175 samples, were bubbles present > "pea-size" (1/4" or 6mm in diameter) in any of the VOA vials?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	19. Were all applicable NH ₃ /TKN/cyanide/phenol/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	21. Was the quote number listed on the container label? If yes, Quote #
Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)	
Sample(s) NA were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H ₂ SO ₄ , HNO ₃ , HCl, NaOH using SR # NA	
Time of preservation NA. If more than one preservative is needed, please note in the comments below.	
Sample(s) NA were received with bubbles > 6 mm in diameter.	
Sample(s) NA were received with TRC > 0.5 mg/L. (If #19 is NA) and were adjusted accordingly in sample receiving with sodium thiosulfate (Na ₂ S ₂ O ₅) with Shealy ID: NA	
SR barcode label applied by: MEH Date: 03/31/2021	

Comments:

RE: UST #04785 Abatement Actions

Mark Lee Keller <mkeller131@comcast.net>

Tue 4/13/2021 3:22 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. ***

I forgot to mention, we did not work in the storm drain. I will tell you why. Storm drains seem fairly innocent things that just catch water and move it on. However, they also can be a trap for hydrogen sulfide. It will kill you quick as a wink. We had three men killed here in Charleston about 10 years ago due to this. They opened a storm drain to check inside it. The gas hit the first man and he fell in immediately. The second man went in to save him and fell unconscious. The third man tried to save his friends and he too died. They all were found laying in the bottom of the storm drain, about 3 miles from my office. The company was General Engineering Laboratories (GEL for short). We never go in those things without the meters you need to check for H2S. Please remember that going forward in your career. I guarantee you will save someone's life with that little piece of knowledge. You let Ryan stick his head in those if he insists!! Kidding.

Mark

Mark L. Keller, PG
President

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

From: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Sent: Tuesday, April 13, 2021 2:27 PM
To: mkeller131@comcast.net
Subject: Re: UST #04785 Abatement Actions

Mark,

I wanted to reach out and let you know it was nice to finally meet you and discuss some the site issues in person. Thank you for taking the time yesterday to walk us around the properties, this is actually my first encounter with booms, so it was neat to see how they work. I'm trying to update my notes since there are so many working parts to this one and I had a question. Did you end up putting any booms in the hot storm drain near the VCC site? I didn't see it listed on the work plan, but I can't remember if we discussed any abatement for it or not yesterday.

Thanks again,
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 Facebook Twitter



From: Mark Keller <mkeller131@comcast.net>

Sent: Friday, April 9, 2021 12:19 PM

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

Cc: Thrash, Ashleigh <thrasham@dhec.sc.gov>; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>

Subject: Re: UST #04785 Abatement Actions

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

Thank you Caitlin!

You can cut the gallons for disposal back as we are not recovering that much. No need to hold up the SUPERB funds that will never be billed. I would estimate for 2 events we will need 12,000 gallons max instead of 40,000.

For results of the first AFVR, we recovered 465 gallons of fuel in the truck, and approximately 110 gallons from vapor totaling 575 gallons in recovery. We will start the second event on Monday through Friday of next week. After the event concluded today we gauged the well and 1 foot of product was already back in the well.

I look forward to meeting you Monday.

Thanks!

RE: UST #04785 Abatement Actions

Mark Lee Keller <mkeller131@comcast.net>

Tue 4/13/2021 3:19 PM

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

3 attachments (9 MB)

Plat-0005-0124.pdf; Plat-0001-0108.pdf; Plat-0137-0089.pdf

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

Caitlin,

It was great meeting both you and Malayika. For the booms, we walked the drain downstream and we installed a boom across the pond on the VCC property, then another boom at the outfall to the pond, and finally a boom at the junction at the corner of the VCC property where it meets the John Lamb Community Center. That is a junction of the drainage from the affected site, and Brightman's Creek. They come together there and then flow north beneath the housing project area and off to the retention ponds. We also installed booms at 25 foot intervals along the drainage creek from the point it goes beneath the ground at Foundry Road, and continuing upstream to beyond the dugout diversion creek section. We observed a black chemical seeping from the bank into that diversion structure. As part of this effort, we removed all the old socks and pads that had been placed in that area as they were leaking contaminants back into the environment after initial capture. They were not the correct type of booms for this work. There are two main types, hydrophobic and hydrophilic. Hydrophobic do not absorb water, only petroleum. That is what we used for this project. Hydrophilic absorb water mostly. You would use that type to get water out of a petroleum product. I have photos I will send of each boom setup once I have organized them into a couple figures.

I have been doing some investigating today on previous ownership. Chris went to the register of deeds office in Greenwood this morning as well. The property where we walked through all the concrete was previously used by Piedmont Fertilizer Corp. and Concrete Products Corp. Also on the property was previously Petroleum Products Corp. in the old building where the abandoned monitoring wells are located. In that open field across from that building, Swift & Co. operated a seed and meal house, and an oil mill. The old plat shows several AST's on that site. I have ordered an aerial photo package for this area to see if we can see anything of interest. It would seem there is more going on here than just what we have at Quick Pantry # 19. There is a sweet smelling chemical present that I don't identify with gasoline. I can smell it in multiple areas all the way to the housing project. I would like to propose several surface water samples be collected as part of the on site assessment to determine what else we are dealing with out here. The small pond has an odd smell, and it appears to be fed by an underwater drainage pipe which angles back into the VCC site, not from the drainage ditch. The plat from the VCC site appears to show that drain in the area we identify as the pond. It is hand drawn on the plat labeled -0137. I have included that plat. The site we walked yesterday is included as plat -0005. The open field plat is included as -0001.

We obviously have an issue at QP 19 which we have identified, but I believe we have some contributing sites out here possibly which could make this a very complicated site.

Thanks

Mark

Mark L. Keller, PG
President

 **KLM Environmental, LLC**

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

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

Sent: Tuesday, April 13, 2021 2:27 PM

To: mkeller131@comcast.net

Subject: Re: UST #04785 Abatement Actions

Mark,

I wanted to reach out and let you know it was nice to finally meet you and discuss some the site issues in person. Thank you for taking the time yesterday to walk us around the properties, this is actually my first encounter with booms, so it was neat to see how they work. I'm trying to update my notes since there are so many working parts to this one and I had a question. Did you end up putting any booms in the hot storm drain near the VCC site? I didn't see it listed on the work plan, but I can't remember if we discussed any abatement for it or not yesterday.

Thanks again,
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 [Facebook](#) [Twitter](#)

From: Mark Keller <mkeller131@comcast.net>
Sent: Friday, April 9, 2021 12:19 PM
To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Cc: Thrash, Ashleigh <thrasham@dhec.sc.gov>; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>
Subject: Re: UST #04785 Abatement Actions

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***
Thank you Caitlin!

You can cut the gallons for disposal back as we are not recovering that much. No need to hold up the SUPERB funds that will never be billed. I would estimate for 2 events we will need 12,000 gallons max instead of 40,000.

For results of the first AFVR, we recovered 465 gallons of fuel in the truck, and approximately 110 gallons from vapor totaling 575 gallons in recovery. We will start the second event on Monday through Friday of next week. After the event concluded today we gauged the well and 1 foot of product was already back in the well.

I look forward to meeting you Monday.

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 Apr 9, 2021, at 12:04 PM, Reilly, Caitlin M. <reillycm@dhec.sc.gov> wrote:

Mark,

Here is a copy of the NTP letter and approved cost agreement for the additional event, I will get a hard copy put in the mail this afternoon. Please let me know if there is anything else I can help you with and I will see you on site Monday afternoon.

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 [Facebook](#) [Twitter](#)

From: Mark Lee Keller <mkeller131@comcast.net>
Sent: Friday, April 9, 2021 9:10 AM
To: Thrash, Ashleigh <thrasham@dhec.sc.gov>; Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Cc: Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>
Subject: RE: UST #04785 Abatement Actions

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4/13/2021

Mail - Reilly, Caitlin M. - Outlook

Attached are the readings and emission calculations for the site currently. We have 108 gallons recovered as vapor, and 360 gallons as raw product. We can not gauge what is in the truck now as the event is ongoing. That is a total of 468 gallons recovered that we have documented thus far.

Please let me know if you are approving our work plan to conduct more events, or if we need to continue our scheduled work for next week.

Mark

Mark L. Keller, PG
President



KLM Environmental, LLC

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

From: Thrash, Ashleigh <thrasham@dhec.sc.gov>
Sent: Thursday, April 8, 2021 3:09 PM
To: mkeller131@comcast.net; Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Cc: Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com; mikepatel8905@yahoo.com; Ariail, Ryan D. <AriailRD@dhec.sc.gov>
Subject: Re: UST #04785 Abatement Actions

That is great news Mark, thank you for the update. Please let us know if you have any additional data tomorrow, and if you plan to go ahead and request another event in line with the original SSWP request and we can go ahead and start working on that if so.

I also don't have any updates related to the storm sewer. I will update you if I hear anything.

Let us know if there is anything else we can do to help!

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 [Facebook](#) [Twitter](#)

From: Mark Keller <mkeller131@comcast.net>
Sent: Thursday, April 8, 2021 2:52 PM
To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Cc: Thrash, Ashleigh <thrasham@dhec.sc.gov>; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>
Subject: Re: UST #04785 Abatement Actions

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

Thank you Caitlin. We are in the field today. Yesterday we took the first load from QP 19 and the truck contained 360 gallons of gasoline. That is recovered product, not off gas amount. The event is working like we had hoped. I have never captured that much actual product, and that was only half way through the event. The off gas amount will only add to the total.

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 Apr 8, 2021, at 2:38 PM, Reilly, Caitlin M. <reillycm@dhec.sc.gov> wrote:

Hey Mark,

Here is a copy of the emergency assessment NTP letter and cost agreement, a hard copy will be placed in the mail this afternoon. As we discussed, this is just for the initial onsite assessment. Once the onsite assessment has been completed and off-site access agreements have been obtained the remainder of the work plan will be approved. Please let me know if you have any questions or need anything in the meantime.

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 [Facebook](#) [Twitter](#)

From: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Sent: Tuesday, April 6, 2021 2:13 PM
To: mkeller131@comcast.net <mkeller131@comcast.net>
Cc: Thrash, Ashleigh <thrasham@dhec.sc.gov>; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>
Subject: Re: UST #04785 Abatement Actions

Mark,

Here is a copy of the NTP letter and CA for the booms. I am still working on the assessment SSWP, is there any way you can give me a rough estimated on the footage and mobilization you will need for the onsite work? I can go ahead and get that portion approved while we wait on the access agreements for the offsite work.

Also, I am planning on making the site visit at the end of next week depending on when the booms are delivered but we can play it by ear.

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 [Facebook](#) [Twitter](#)

From: Mark Keller <mkeller131@comcast.net>
Sent: Tuesday, April 6, 2021 9:34 AM
To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Cc: Thrash, Ashleigh <thrasham@dhec.sc.gov>; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>
Subject: Re: UST #04785 Abatement Actions

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Caitlin

We have a man on site 24 hours per day during the AFVR events. He is in a camper on site. You can visit anytime and he is familiar with the site actions. I won't be going myself until we get the containment booms delivered, then I will be on site doing the installation work. Maybe that will be a good time to meet with you and go over everything we will hopefully have by then which should be next week. Let me know if that works.

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 Apr 6, 2021, at 8:47 AM, Reilly, Caitlin M. <reillycm@dhec.sc.gov> wrote:

Good morning Mark,

I will get those changes made this morning and get you a copy shortly. Do you know of a good day this week to conduct a site visit?

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 [Facebook](#) [Twitter](#)

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

Sent: Monday, April 5, 2021 8:21 PM

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

Cc: shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>

Subject: RE: UST #04785 Abatement Actions

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Caitlin,

You can reduce the approved cost on this. The booms are sold in packs of 2 so we only needed half as many as I originally thought. The cost for the booms is \$2,500.00. No shipping as Ashleigh said. The cost of the wooden stakes is \$43.92, no shipping. You can reduce the costs under Section R of the cost agreement I sent to these amounts, which is about half.

Thanks!

Mark

Mark L. Keller, PG
President

KLM Environmental, LLC

PO Box 2704
Goose Creek, SC. 29445
843-370-4285 Cell

From: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Sent: Monday, April 5, 2021 4:59 PM
To: Thrash, Ashleigh <thrasham@dhec.sc.gov>; mkeller131@comcast.net; Mehta, Mihir <mehtam@dhec.sc.gov>
Cc: shahpetroinc@yahoo.com; mikepatel8905@yahoo.com; Ariail, Ryan D. <AriailRD@dhec.sc.gov>
Subject: Re: UST #04785 Abatement Actions

Hello Mark,

Here is a copy of the NTP letter for the boom installation, a hard copy will be going out in the mail tomorrow. Our finance department has already left for the day but the CA number on the letter can be used for tracking costs and I will get you a copy of the approved cost agreement breakdown tomorrow when they get in, a copy of this will also go out with the hard copy I put in the mail.

I will also be getting you a copy of the onsite emergency assessment NTP and cost agreement sometime tomorrow morning. Please let me know if you have any questions or need anything in the meantime.

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 [Facebook](#) [Twitter](#)

From: Thrash, Ashleigh <thrasham@dhec.sc.gov>
Sent: Monday, April 5, 2021 3:05 PM
To: mkeller131@comcast.net <mkeller131@comcast.net>; Mehta, Mihir <mehtam@dhec.sc.gov>
Cc: shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>; Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Subject: Re: UST #04785 Abatement Actions

Thanks for the update, Mark.

I spoke to Michael Hayes a few minutes ago and he updated me re: the investigation of the storm drainage piping investigation - I will update you once I know more there.

Caitlin is working on the boom SSWP approval (minus Shipping and handling, as we discussed) as well as the plan for onsite assessment that we discussed Friday. We should get those email copy to you and hard copy in the outgoing mail today. Caitlin will also be in touch regarding a good day to conduct a site visit.

Let us know if there is anything else we can do to help!

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 [Facebook](#) [Twitter](#)

From: Mark Lee Keller <mkeller131@comcast.net>
Sent: Monday, April 5, 2021 3:01 PM
To: Thrash, Ashleigh <thrasham@dhec.sc.gov>; Mehta, Mihir <mehtam@dhec.sc.gov>
Cc: shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>; Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Subject: RE: UST #04785 Abatement Actions

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We have made contact with one of the site owners, Mr. Brandon Smith. He owns the property we need to access along with his dad, Ronney Smith. Brandon's phone number is 864-223-4572. I am providing that for the project notes. My site personnel, Mr. Graham Robinson spoke with Brandon Smith by phone today regarding the installation of booms in the creek area. He gave verbal permission to proceed with that. I also have his email as speedwayexpresslube@gmail.com. They own and operate a car repair facility not far from the property. The Speedway Express Lube is located at 1436 Main Street, Greenwood, SC 29646. I will make email contact with Mr. Smith today as well.

Mark

Mark L. Keller, PG
 President

KLM Environmental, LLC

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

From: Thrash, Ashleigh <thrasham@dhec.sc.gov>
Sent: Monday, April 5, 2021 10:17 AM
To: Mehta, Mihir <mehtam@dhec.sc.gov>; mkeller131@comcast.net
Cc: shahpetroinc@yahoo.com; mikepatel8905@yahoo.com; Ariail, Ryan D. <AriailRD@dhec.sc.gov>; Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Subject: Re: UST #04785 Abatement Actions

Good Morning Mark,

Thanks again for chatting with us Friday. Hope you had a great weekend!

Chris McClusky is getting back to me on the contact with City of Greenwood. I thought I had written it down but I was mistaken.

Also, I'm attempting to set up a conference call with Angela Gorman who is the PM for the VCC on Foundry Road. Can you let me know some days/times that would be good for you this week?

Thank you!

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 [Facebook](#) [Twitter](#)

From: Mehta, Mihir <mehtam@dhec.sc.gov>
Sent: Friday, April 2, 2021 4:12 PM
To: mkeller131@comcast.net <mkeller131@comcast.net>
Cc: shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>; Reilly, Caitlin M. <reillycm@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>; Mehta, Mihir <mehtam@dhec.sc.gov>
Subject: Re: UST #04785 Abatement Actions

Mark, it was a pleasure talking with you this afternoon. Please feel to continue to engage with our project team throughout this process.

Thank you and have a great weekend.
 Mihir

Mihir Mehta, P.E.
 Director, UST Management Division
S.C. Dept. of Health & Environmental Control
 Office: (803) 898-0623
 Mobile: (803) 240-1998
 Connect: www.scdhec.gov [Facebook](#) [Twitter](#)

From: Mark Lee Keller <mkeller131@comcast.net>
Sent: Friday, April 2, 2021 3:11 PM
To: Mehta, Mihir <mehtam@dhsc.sc.gov>
Cc: shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Ariail, Ryan D. <AriailRD@dhsc.sc.gov>; Reilly, Caitlin M. <reillycm@dhsc.sc.gov>; Thrash, Ashleigh <thrasham@dhsc.sc.gov>
Subject: RE: UST #04785 Abatement Actions

*** Caution: This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***
 I am available for a call this afternoon after 3:30. Please give me a number to call in if that works as the last time trying to 3 way me in did not work.

Mark

Mark L. Keller, PG
 President

KLM Environmental, LLC
 PO Box 2704
 Goose Creek, SC 29445
 843-370-4285 Cell

From: Mehta, Mihir <mehtam@dhsc.sc.gov>
Sent: Friday, April 2, 2021 9:42 AM
To: mkeller131@comcast.net
Cc: shahpetroinc@yahoo.com; mikepatel8905@yahoo.com; Ariail, Ryan D. <AriailRD@dhsc.sc.gov>; Reilly, Caitlin M. <reillycm@dhsc.sc.gov>; Thrash, Ashleigh <thrasham@dhsc.sc.gov>; Mehta, Mihir <mehtam@dhsc.sc.gov>
Subject: Re: UST #04785 Abatement Actions

Mark, good morning and hope you are doing well. Ashleigh, Ryan and I would like an opportunity to have a phone call conversation, preferably today, regarding this release. Please let us know a time convenient to you and we can set up a conference call

Thank you
 Mihir

Mihir Mehta, P.E.
 Director, UST Management Division
S.C. Dept. of Health & Environmental Control
 Office: (803) 898-0623
 Mobile: (803) 240-1998
 Connect: www.scdhec.gov [Facebook](#) [Twitter](#)

From: Mark Lee Keller <mkeller131@comcast.net>
Sent: Thursday, April 1, 2021 7:07 PM
To: Thrash, Ashleigh <thrasham@dhsc.sc.gov>
Cc: shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Ariail, Ryan D. <AriailRD@dhsc.sc.gov>; Mehta, Mihir <mehtam@dhsc.sc.gov>; Reilly, Caitlin M. <reillycm@dhsc.sc.gov>
Subject: RE: UST #04785 Abatement Actions

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 All

The directive to conduct an AFVR event at the site was received, albeit without the backup sheets showing any amounts approved, which we need to ensure all costs are preapproved. Please provide that as is normal practice. Without the pre-approved amounts we have no record of what is and is not approved.

The property owner is fully aware of his responsibilities regarding off site access. However, if the SCDHEC wishes for this project to move forward at an expedited pace, I would suggest assistance be provided. We can not make the process any faster without governmental intercedence. I believe that point was made clear in our email response yesterday. That brings me to the four requirements again sent in the directive which were addressed yesterday. They are again shown below from the directive.

- Vapors entering storm sewer system owned and operated by the city of Greenwood
- Seepage of free product into the nearby creek
- Prevention of free product from migrating off gas station property

agreement to address the following concerns by April 6, 2021:

The approved SWP for AFVR does not address the below concerns. Your contractor must sign

- Full delineation of soil and groundwater in subsurface (Tier II assessment)

I will again answer these in the order set forth here as I did yesterday

1. KLM has documented the presence of free product on site. KLM submitted a work plan to conduct Aggressive Fluid Vapor Recovery events at the site to prevent migration of the product off site. KLM proposed four events as a first course of action. One event has been approved. As a plan has been submitted and partially approved covering this point, it is unclear why this is not understood and keeps being inserted into letters which are not on this topic.

2. KLM cannot mitigate seepage of the free product into the creek or the storm system without an offsite access agreement with the property owner at Parcel # 6855-475-219. That property owner indicated to KLM while on site on March 8th that he has retained counsel and indicated a lawsuit was imminent. He also has hired Greg Force as his environmental consultant who collected samples on his property. In order for KLM to proceed with any abatement action off site, we must have an access agreement. KLM has submitted that agreement to the property owners, Mr. Ronny and Brandon Smith. The letter was sent Certified with Return Receipt on April 1st, 2021. Once an access agreement has been reached, KLM can proceed with work off site. KLM has also requested assistance in obtaining off site access from the SCDHEC in the report submitted March 29th and by email on March 30th, March 31st and again today on April 1st. Those requests have been ignored or flat out denied. Gladly, this is on record. It is imperative that we have an access agreement in place prior to commencing any work on private property. This is and has been standing procedure set forth by the SCDHEC for decades.

3. Vapors can be mitigated from entering the storm sewer, but access to the property where the storm sewer is located must be provided before we can begin any form of intercepting the free product. Please see the answers provided above regarding an access agreement.

4. A Tier II Plan was submitted to Ms. Caitlin Reilly by email on 4/1/21, and will be sent by hard copy. However, an access agreement must be in place with the property owner at Parcel # 6855-475-219 before work can begin.

While it may seem a lark to waste our time and resources, for the many people involved in this project reviewing emails and documents that continually rehash the same topic, it is tiresome and a waste of tax payer money. This time may be better spent assisting KLM with gaining off site access in lieu of continual letter writing. Lets make that a focal point moving forward if we can. Perhaps a new point of contact at the SCDHEC would serve this project better as the current contact appears not to be motivated to assist on this project in any fashion. We feel this is against the code of ethics this project, and all others, should be handled with. If things continue in this manner, we can certainly contact the governmental officials in our house of representatives and senate chamber and ask them to intercede on behalf of a private citizen and his representative who can gain no assistance despite documented requests.

Mark L. Keller, PG
President

KLM Environmental, LLC

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

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

Sent: Thursday, April 1, 2021 5:10 PM

To: mkeller131@comcast.net

Cc: shahpetroinc@yahoo.com; mikepatel8905@yahoo.com; Ariail, Ryan D. <AriailRD@dhec.sc.gov>; Mehta, Mihir

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

Subject: Re: UST #04785 Abatement Actions

All,

Attached is an approval for the 3/30/2021 workplan for AFVR. A Cost Agreement number 63514 has been created as a **curtesy for tracking purposes only as this release is still with deductible and SUPERB funds cannot yet be expended.**

A hard copy was placed in the outgoing mail. Please let us know if you have any questions.

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 [Facebook](#) [Twitter](#)

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

Sent: Wednesday, March 31, 2021 6:14 PM

To: Thrash, Ashleigh <thrasham@dhcc.sc.gov>

Cc: shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Ariail, Ryan D. <AriailRD@dhcc.sc.gov>; Mehta, Mihir <mehtam@dhcc.sc.gov>; Reilly, Caitlin M. <creillycm@dhcc.sc.gov>

Subject: RE: UST #04785 Abatement Actions

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

We are in receipt of the letter dated March 31st, 2021. The tank operator has completed the six requirements outlined in the first part of your letter, which you have already been informed about by email, report, and subsequent emails. KLM nor the site owner understand why this formal letter is being issued to address items already addressed and reported to the Department. If there is a communication barrier, or a technical understanding barrier, please let me know and we can explain what has already occurred in a different way. In any event, a response to each task outlined in the letter is provided below, corresponding to the number in the letter:

1. The tank owner informed KLM that the tank has been emptied of its contents. No contents remain in the tank. This requirement has been satisfied as reported to us.
2. There are no above ground releases present at the site. KLM performed a site inspection on March 8th and submitted the findings by email on March 9th, and by report on March 29th. This requirement has been satisfied.
3. No UST excavation has occurred. The tank is out of service in the tank pit with the remaining UST's. No underground structures are present in the area of the UST basin such as a basement. A storm sewer is present on site but is located well above the water table on site. This requirement has been satisfied.
4. No soils have been excavated at this time. An offsite access agreement must be reached with the property owner of the affected property across Main Street known as Parcel # 6855-475-219 if any off site excavation activities are to occur. That property owner indicated to KLM while on site on March 8th that he has retained counsel and indicated a lawsuit was imminent. He also has hired Greg Force as his environmental consultant who collected samples on his property. In order for KLM to proceed with any abatement action off site, we must have an access agreement. KLM has submitted that agreement to the property owners, Mr. Ronny and Brandon Smith. The letter is to be sent Certified with Return Receipt. Once an access agreement has been reached, KLM can proceed with work off site. This requirement is pending an off site access agreement. KLM has requested assistance with obtaining this both in the submitted report and by email.
5. The source of the release has been confirmed by a failed tank tightness test. That was previously submitted to the SCDHEC. KLM has already collected the required sample as well as documented free phase product in the monitoring well next to the tank pit at a thickness of over 5 feet. That was reported by email on March 9th, and in the report submitted March 29th. A groundwater sample was also collected by Geoprobe on March 8th below the free product, downgradient of the tank pit as requested by the SCDHEC. Those results were reported by email on March 25th, and by report on March 29th. This requirement has been satisfied.
6. The presence of free product was investigated on March 8th and the presence was reported to the SCDHEC by email on March 9th and by report on March 29th. A proposed work plan was submitted on March 30th to the SCDHEC to begin removal of the free product. That plan has not been approved. This requirement is dependent on the agency who issued this letter and this requirement. If the plan is approved, then this requirement can be completed. KLM nor the Responsible Party has no control over the approval of submitted work plans.

Regarding the requirements listed of the UST Contractor, who is KLM Environmental, there are four requirements listed. We will answer those in the order presented in the letter:

1. KLM has documented the presence of free product on site. KLM can not mitigate the migration off site without approval of the work plan submitted on March 30th. That work plan requested the use of Aggressive Fluid Vapor Recovery (AFVR) technology which has been proven across the state of South Carolina and throughout the country as an effective means of removing free product. A well is present in the tank basin with over 5 feet of free product as previously reported to the SCDHEC by email on March 8th and in the report submitted on March 29th. A work plan was submitted on March 30th yet it has not been approved for implementation. If this were truly an emergency action as we have been warned, why has

our work plan not been quickly reviewed and approved as stated it would be, in bold letters no less, accompanied by a threat to a small minority owned business man that he would be turned over to enforcement if he did not comply, in the email chain dated March 30th?

2. KLM can not mitigate seepage of the free product into the creek or the storm system without an offsite access agreement with the property owner at Parcel # 6855-475-219. That property owner indicated to KLM while on site on March 8th that he has retained counsel and indicated a lawsuit was imminent. He also has hired Greg Force as his environmental consultant who collected samples on his property. In order for KLM to proceed with any abatement action off site, we must have an access agreement. KLM has submitted that agreement to the property owners, Mr. Ronny and Brandon Smith. The letter is to be sent Certified with Return Receipt. Once an access agreement has been reached, KLM can proceed with work off site. KLM has also requested assistance in obtaining off site access from the SCDHEC in the report submitted March 29th and by email on March 30th. We are again requesting assistance in this email on March 31st. It is imperative that we have an access agreement in place prior to commencing any work on private property. This is and has been standing procedure set forth by the SCDHEC for decades.

3. Vapors can be mitigated from entering the storm sewer, but access to the property where the storm sewer is located must be provided before we can begin any form of intercepting the free product. Please see the answers provided above regarding an access agreement.

4. A Tier II Plan will be submitted for the site on April 1st, which has not been requested by the SCDHEC until today, March 31st. However, it cannot be implemented without an access agreement from the property owner at Parcel # 6855-475-219. Please see multiple previous answers to this issue already presented.

I hope these answers to your points in the letter date March 31st, 2021 are sufficient for a comprehensive understanding of what has and what needs to occur, and who is responsible for each item. In addition, KLM alerted the SCDHEC that a Voluntary Cleanup Contract, denoted as VCC 17-5707-NRP is located on the adjacent property, which the storm sewer reportedly flows beneath. As known contaminants are present in this area, and KLM personnel may come in contact with those chemicals during the course of this work, to include free product abatement activities, KLM requests it be provided with a full copy of the assessment and remediation tasks completed at this site. The health and safety of our employees is paramount, as well as the health and safety of our citizens and our environment. If these chemicals are contributing to the pollution of the housing project area, we need to know and would advise the SCDHEC to involve the citizens and community leaders of Greenwood. It is our sincere hope that approval of our work plan will be hastened to demonstrate to the City of Greenwood that the SCDHEC is a willing partner, there to assist the community while showing compassion for a small business man trying to earn a living for his family, not a menacing agency threatening a man who has tried to comply with all requests put upon him. I hope together we can move this project forward.

Sincerely,

Mark L. Keller, PG
President

KLM Environmental, LLC

P.O. Box 2704
Goose Creek, SC 29445
843-870-4285 Cell

From: Thrash, Ashleigh <thrasham@dhc.sc.gov>

Sent: Wednesday, March 31, 2021 5:04 PM

To: mkeller131@comcast.net

Cc: shahpetroinc@yahoo.com; mikepatel8905@yahoo.com; Ariail, Ryan D. <AriailRD@dhc.sc.gov>; Mehta, Mihir <mehtam@dhc.sc.gov>; Reilly, Caitlin M. <reillycm@dhc.sc.gov>

Subject: Re: UST #04785 Abatement Actions

Good Afternoon Mr. Shah,

It was a pleasure to speak to you this afternoon and I hope we have cleared everything up. I have attached a copy of the letter outlining the abatement actions required at this time as we discussed today. Mark, I'm sorry we missed you but understand you were in the field.

Mr. Shah, Mr. Keller's contact info is as follows:

Office: 843-797-7884
Cell: 843-870-4285

You can also reach me directly at either of the numbers below. Please don't hesitate to reach out to either me or Ryan if you have any further questions for us.

Thank you!

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 [Facebook](#) [Twitter](#)

From: Mark Keller <mkeller131@comcast.net>

Sent: Wednesday, March 31, 2021 12:46 PM

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

Cc: shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>; Mehta, Mihir <mehtam@dhec.sc.gov>; Reilly, Caitlin M. <reillycm@dhec.sc.gov>

Subject: Re: UST #04785 Abatement Actions

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I have not spoken to him today. We are in the field.

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 Mar 31, 2021, at 11:52 AM, Thrash, Ashleigh <thrasham@dhec.sc.gov> wrote:

Great - we should all be available at that time.

I know Mr. Patel indicated Mr. Shah was authorized to discuss/make decisions on his behalf regarding site rehabilitation. Is Mr. Shah available around that time?

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 [Facebook](#) [Twitter](#)

From: Mark Keller <mkeller131@comcast.net>

Sent: Wednesday, March 31, 2021 11:27 AM

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

Cc: shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>; Mehta, Mihir <mehtam@dhec.sc.gov>; Reilly, Caitlin M. <reillycm@dhec.sc.gov>

Subject: Re: UST #04785 Abatement Actions

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I hope to be available by then. Mr. Patel will not be available for the next 6 months or so until he returns.

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 Mar 31, 2021, at 11:00 AM, Thrash, Ashleigh <thrasham@dhec.sc.gov> wrote:

Thanks for the update, Mark.

We have received the work plan and preliminarily reviewed it.

Will you and Mr. Patel/Mr. Shah be available around 3:30-4:00 for a call? Or will you not be available until later than that/tomorrow?

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 [Facebook](#) [Twitter](#)

From: Mark Keller <mkeller131@comcast.net>
Sent: Wednesday, March 31, 2021 10:53 AM
To: Thrash, Ashleigh <thrasham@dhec.sc.gov>
Cc: shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>; Mehta, Mihir <mehtam@dhec.sc.gov>; Reilly, Caitlin M. <reillycm@dhec.sc.gov>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>
Subject: Re: UST #04785 Abatement Actions

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

We are on a drilling project today. Will be available late afternoon. A work plan was submitted last night to the Project Manager as well as Ryan Ariail at his request. Please let me know if I need to coordinate between you and Caitlin and Ryan.

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 Mar 31, 2021, at 9:58 AM, Thrash, Ashleigh <thrasham@dhec.sc.gov> wrote:

Good Morning All,

We feel that it would be beneficial to have a call as soon as everyone is available in order to discuss what actions are required at the site as well as answer any questions that any of you may have so that abatement may proceed.

Mr. Patel, I understand you are leaving the country so I have looped Shah in so that he may be present on the call on your behalf if you wish.

Are you all available either after 11 this morning or sometime this afternoon for a call? Let me know and I will provide the conference line information.

Thank you!

Ashleigh

4/13/2021

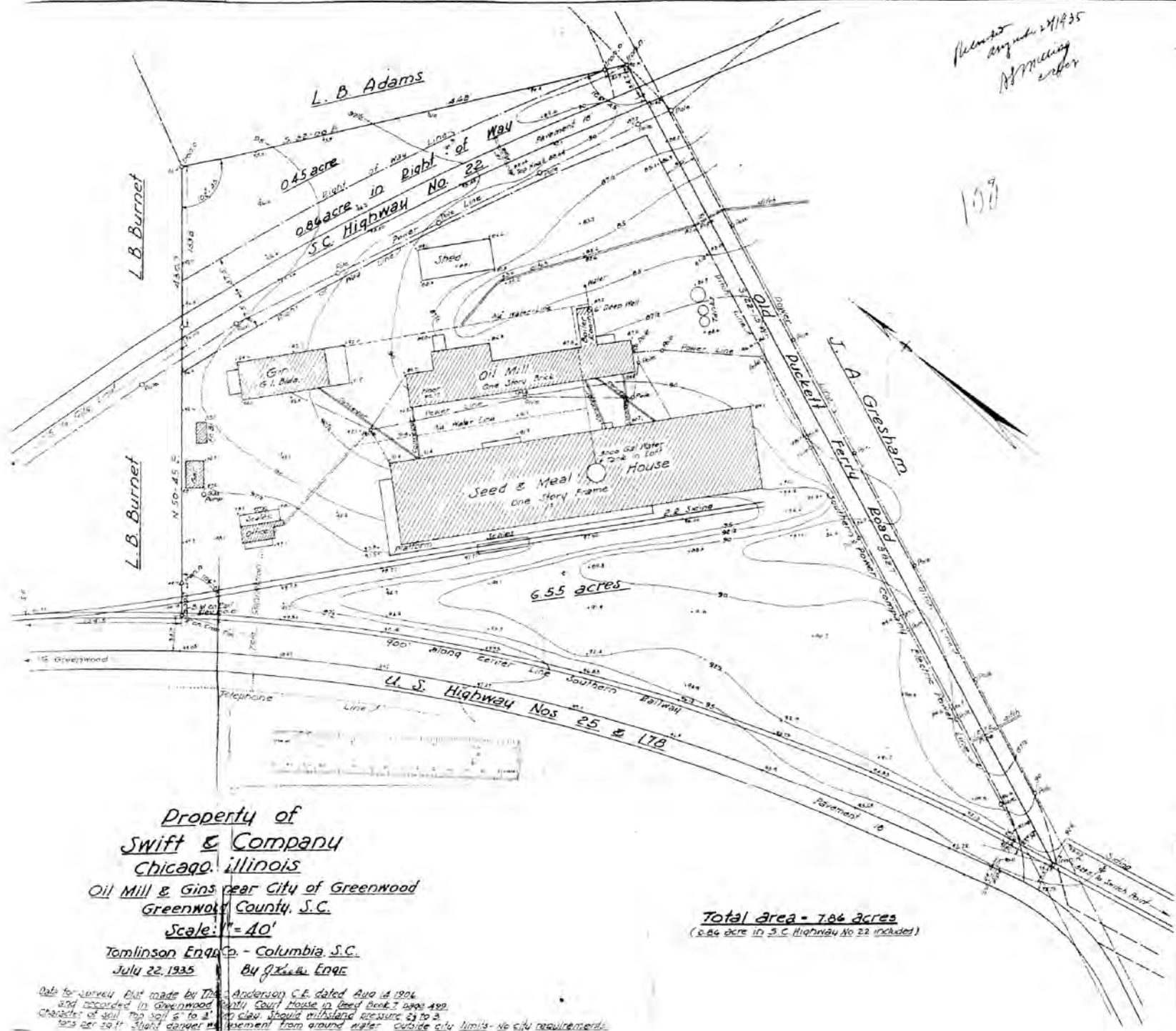
Mail - Reilly, Caitlin M. - Outlook

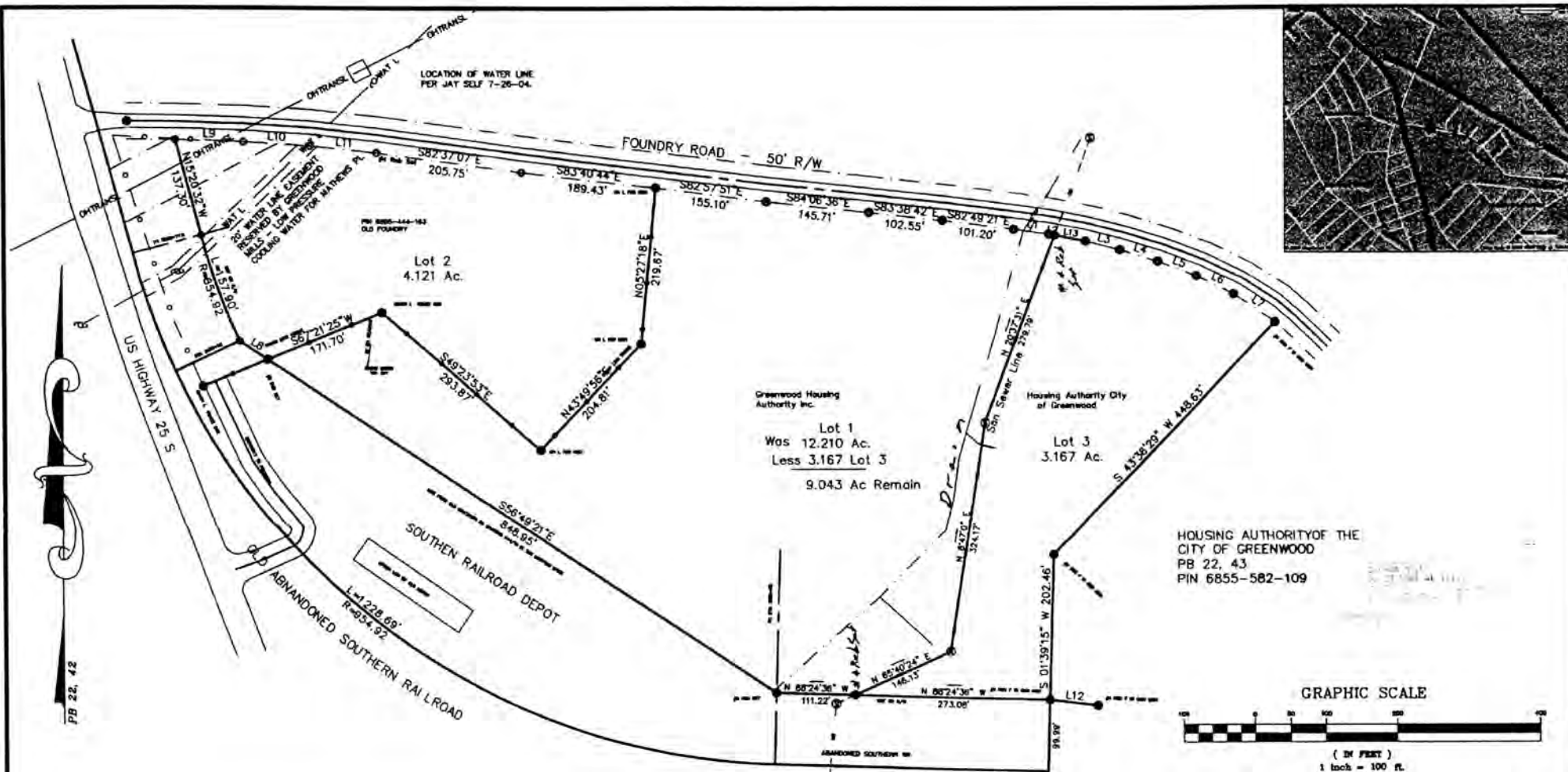
Ashleigh Thrash, P.G.
Section Manager, Assessment & Non-Permitted Petroleum

S.C. Dept. of Health & Environmental Control
Office: (803) 898-0607

Cell: (803) 608-1765

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





LINE	LENGTH	BEARING
L1	49.54	S 81°57'44" E
L2	8.53	S 78°59'42" E
L3	49.86	S 75°38'11" E
L4	54.80	S 72°34'10" E
L5	56.86	S 68°56'14" E
L6	58.26	S 63°49'49" E
L7	69.95	N 55°40'35" W
L8	48.69	S 56°49'21" E
L9	96.13	N 88°18'57" W
L10	92.66	S 86°48'59" E
L11	93.07	S 84°2'44" E
L12	68.08	S 82°39'11" E
L13	44.16	S 78°39'42" E

REVISED DECEMBER 15, 03 TO SHOW CHAIN LINK FENCE AS LINE AROUND OLD FOUNDRY.
 REVISED 7-14-04 TO ADD LOT 2 TO PROPERTY TO BE DEEDED.
 REVISED 7-27-04 TO SHOW WATER LINE AND 20' EASEMENT FOR SAME.
 REVISED 10-28-07 TO CUT OFF LOT 3.

DIVISION SURVEY FOR HOUSING AUTHORITY CITY OF GREENWOOD
 TO CUT OFF LOT 3
 FOUNDRY ROAD PROPERTY
 PIN 6855-515-137

COUNTY OF GREENWOOD SOUTH CAROLINA

DEC. 12, 2003 - REV. 12-15-04 & 7-14-04 & 7-27-04 & 10-26-07

I HEREBY STATE THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION, & BELIEF THE SURVEY SHOWN HEREIN WAS MADE IN ACCORDANCE WITH THE REQUIREMENTS OF THE MINIMUM STANDARDS MANUAL FOR THE PRACTICE OF LAND SURVEYING IN THE STATE OF SOUTH CAROLINA AND MEETS OR EXCEEDS THE REQUIREMENTS FOR A CLASS B SURVEY AS SPECIFIED THEREIN. ALSO THERE ARE NO BUILDINGS ENCRDACHING OTHER THAN SHOWN, AND THE HOUSE DOES NOT LIE IN A SPECIAL FLOOD-ZONE.

JOHN H. WELBORN SURVEYOR

1416 HWY. 72 WEST
 GREENWOOD, S. C. 29649
 (864) 223-5903

John H. Welborn
 JOHN H. WELBORN, P.L.S. # 5773B

DRAWN BY: JHW

PARTY CHIEF: JAO

FILE NO:

Greenwood City/County
 Planning Department
 This Plan May Be Recorded
 By: *[Signature]* Date: 7/27/07
 Planning Office

LOT SPLIT

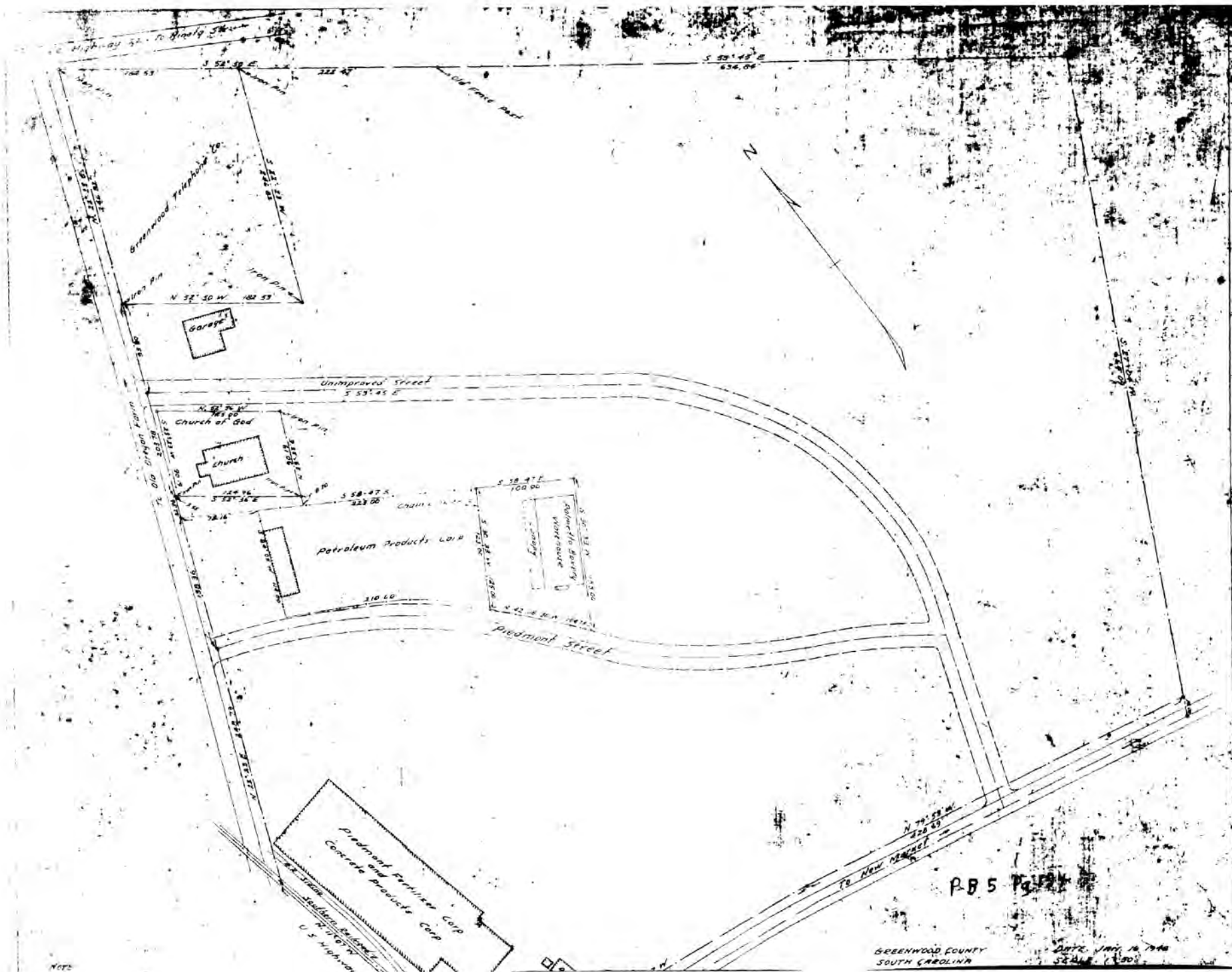


Table 1
AFVR Event Data

4-5-2021 - 4-9-2021
Quick Pantry #19 (USDHEC UST #04785)

Date	Time	Stinger Depth (ft)				Recovery Rate					Air Emissions Concentrations (ppm)		
		MW-1				Vacuum (In. Hg)	Air Flow (cfm)	Temp (F)	Stack Vel. (mph)	Humidity	PID Pre-Treatment	PID Post-Treatment	% Mass Reduction
4/5/2021	10:00	12				21	119.8	68.6	15.6	74.3	6188	66.3	98.93
4/5/2021	10:30	12.5				21	121.4	71.4	15.8	72.6	6658	70.2	98.95
4/5/2021	11:00	13				21	119.1	71.9	15.5	76.7	6522	68.7	98.95
4/5/2021	11:30	13.5				21	120.6	74.5	15.7	76.9	6573	67.4	98.97
4/5/2021	12:00	14				21	121.4	77.2	15.8	78.4	6169	65.4	98.94
4/5/2021	12:30	14.5				21	117.5	78.4	15.3	77.7	5981	55.9	99.07
4/5/2021	13:00	15				21	119.8	78.7	15.6	78.6	6054	58.8	99.03
4/5/2021	13:30	15.5				21	119.8	80.1	15.6	79.2	5888	53.7	99.09
4/5/2021	14:00	16				21	117.5	86.8	15.3	79.6	5671	45.6	99.20
4/5/2021	14:30	18				21	120.6	88.1	15.7	78.8	5449	51.1	99.06
4/5/2021	15:00	20				21	116.8	89.6	15.2	80.3	5366	61.5	98.85
4/5/2021	15:30	22				21	119.1	91.3	15.5	81.1	5146	71.6	98.61
4/5/2021	16:00	24				21	112.9	90.8	14.7	82.3	4983	73.4	98.53
4/5/2021	16:30	26.5				21	116.0	92.7	15.1	81.8	4944	74.4	98.50
4/5/2021	17:00	27.5				22	118.3	92.4	15.4	83.5	4677	79.1	98.31
4/5/2021	17:30	28.5				22	114.5	93.5	14.9	83.7	4748	82.3	98.27
4/5/2021	18:00	28.5				22	118.3	93.8	15.4	83.3	4662	81.9	98.24
4/5/2021	19:00	28.5				21	120.6	91.7	15.7	80.8	4564	79.8	98.25
4/5/2021	20:00	28.5				21	119.1	90.9	15.5	80	4289	79.4	98.15
4/5/2021	21:00	28.5				22	113.7	87.3	14.8	78.4	4364	88.6	97.97
4/5/2021	22:00	28.5				21	117.5	86.6	15.3	78.5	3961	84.6	97.86
4/5/2021	23:00	28.5				22	116.0	84.2	15.1	77.3	3759	83.4	97.78
4/5/2021	0:00	28.5				22	119.8	81.8	15.6	75.6	3478	79.6	97.71
4/6/2021	8:00	28.5				22	113.7	58.7	14.8	66.2	3577	84.7	97.63
4/6/2021	9:00	28.5				21	115.2	79.3	15	57.6	3254	83.6	97.43
4/6/2021	10:00	28.5				21	116.0	80.3	15.1	61.1	3266	84.3	97.42
4/6/2021	12:00	28.5				21	113.7	95.7	14.8	48.8	2773	82.1	97.04
4/6/2021	14:00	28.5				21	115.2	96.7	15	43.2	2246	83.5	96.28
4/6/2021	16:00	28.5				21	116.0	97.7	15.1	39.4	2268	85.2	96.24
4/6/2021	18:00	28.5				21	115.2	97.2	15	37.4	2144	87.7	95.91
4/6/2021	20:00	28.5				21	115.2	95.3	15	41.1	2094	85.2	95.93
4/6/2021	22:00	28.5				21	115.2	91.6	15	41.8	1983	86.8	95.62
4/6/2021	0:00	28.5				21	116.0	87.4	15.1	55.3	1965	87.7	95.54
4/7/2021	8:00	28.5				21	115.2	60.2	15	68.4	2094	84.7	95.96
4/7/2021	10:00	28.5				21	115.2	77.8	15	71.2	1936	89.2	95.39
4/7/2021	12:00	28.5				21	112.9	117.3	14.7	66.5	2956	101.3	96.57
4/7/2021	14:00	28.5				21	110.6	119.8	14.4	62.1	9261	130.1	98.60
4/7/2021	16:00	28.5				21	114.5	121.4	14.9	64.7	13109	132.3	98.99
4/7/2021	18:00	28.5				21	112.9	123.8	14.7	61.4	15000	145.2	99.03
4/7/2021	20:00	28.5				21	117.5	120.5	15.3	59.6	15000	173.9	98.84
4/7/2021	22:00	28.5				21	112.2	119.4	14.6	57.9	15000	204.2	98.64
4/7/2021	0:00	28.5				21	116.0	117.1	15.1	60.2	15000	210.7	98.60
4/8/2021	8:00	28.5				21	113.7	112.5	14.8	56.3	15000	236.1	98.43
4/8/2021	10:00	28.5				21	110.6	114.8	14.4	59.1	15000	258.4	98.28
4/8/2021	12:00	28.5				21	114.5	118.9	14.9	62.9	15000	242.7	98.38
4/8/2021	14:00	28.5				21	117.5	120.3	15.3	60.1	15000	263.9	98.24
4/8/2021	16:00	28.5				21	112.9	117.5	14.7	65.7	15000	271.2	98.19
4/8/2021	18:00	28.5				21	114.5	119.8	14.9	62.3	15000	267.3	98.22
4/8/2021	20:00	28.5				21	119.1	118.2	15.5	69.5	15000	308.9	97.94
4/8/2021	22:00	28.5				21	116.0	116.5	15.1	73.8	15000	295.5	98.03
4/8/2021	0:00	28.5				21	117.5	117.2	15.3	70.2	15000	292.1	98.05
4/9/2021	8:00	28.5				21	112.9	114.9	14.7	67.4	15000	296.8	98.02
4/9/2021	10:00						0.0						#DIV/0!
							0.0						#DIV/0!
							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

11.81

16.6

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

4/5/20 - 4/9/20

$$\text{PPM}_w = \text{PPM}_{\text{measured}} = 7404.231$$

$$\text{PPM}_d = \text{PPM}_w / (1 - Bws) = 7902.486$$

$$\text{PPM}_c = (\text{PPM}_d)(K) = 31609.94$$

$$C_{c,m} = \text{PPM}_c (M_c / K_3) = 15772.14$$

$$C_c = C_{c,m} (62.43 \times 10^{-9}) = 0.000985$$

$$\text{PMR}_c = C_c (Q_{\text{std}})(60) = 6.118874$$

$$\text{PMR}_g = (\text{PMR}_c)(M_g / M_{cg}) = 7.081394 \text{ lbs of emissions per hour}$$

108.7702 Gallons of emissions per 96 hours



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

April 14, 2021

SCDHEC - USTMD
2600 Bull Street
Columbia, SC 29201
Attn: Caitlin Reilly

Re: Quick Pantry # 19; UST # 04785

Ms. Reilly:

This letter is being sent to document the installation of the containment booms as approved in the directive dated April 6th, 2021 sent to Bahuchar Mata, LLC. Upon approval of the work plan to install containment booms along the affected creek and drainage area, KLM ordered the approved materials which were delivered on April 8th, 2021. On April 12th, 2021 KLM personnel mobilized to the site to install the containment booms as approved. Each boom was staked on each end, and two booms were utilized near the suspected intersection point of the release and the creek. A figure is attached identified as Figure 1 showing the locations of 14 areas utilized for this initial step. Figures 2 through Figure 4 show the booms as placed in reference to the map locations. KLM will continue to monitor these booms as separate site visits are performed for other tasks, to consolidate site mobilization as much as possible. The saturation levels in the booms should indicate where the intersection point is, approximately, in relation to the creek area. This knowledge will assist us in delineation work once site access has been granted by the property owner. If significant saturation is observed, KLM will execute, with your approval, the second part of the approved work plan and replace the booms to continue to protect the downstream areas.

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

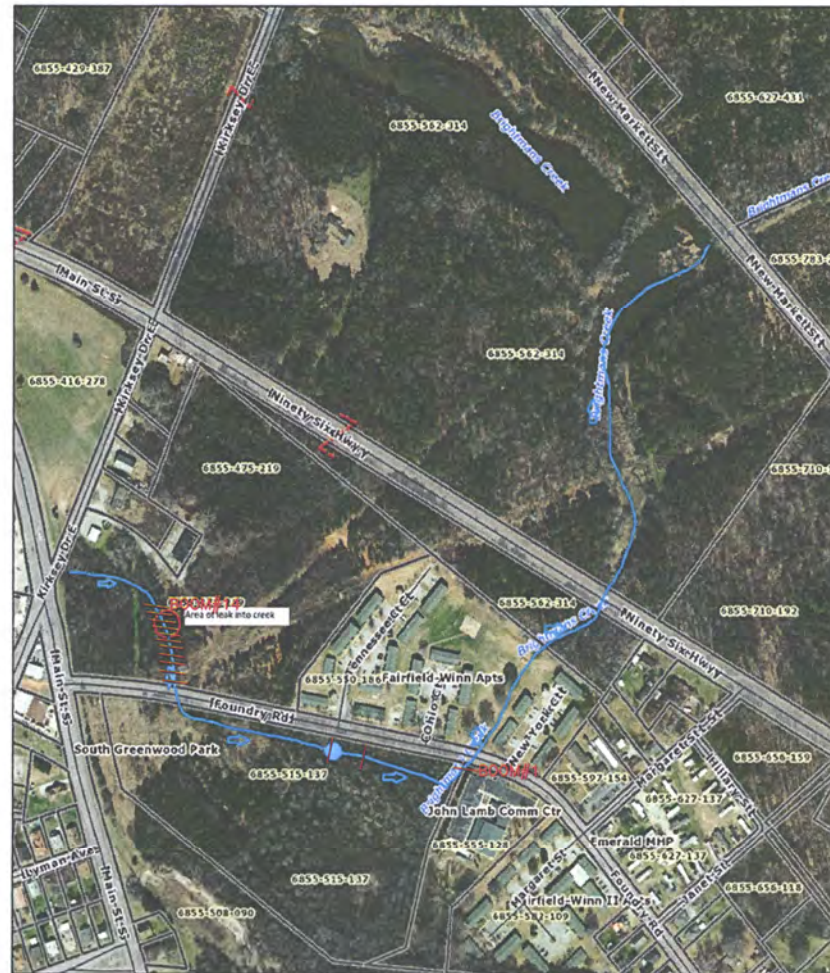
Sincerely,

KLM Environmental, LLC

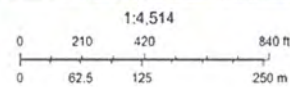
Mark L. Keller, PG
President



Foundry Rd oil in creek wide aerial



October 28, 2020



Map Layers: soil

LEGEND

BOOM LOCATION

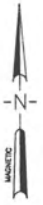


FIGURE 1

APPROXIMATE BOOM INSTALLATION
QUICK PANTRY #19
GREENWOOD, SC. SITE ID# 04785



KLM Environmental, LLC

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

Disclaimer: Map and parcel data are believed to be accurate, but accuracy is not guaranteed. This is not a legal document and should not be substituted for a title search appraisal, survey or for



Boom Location # 1



Boom Location # 2



Boom Location # 3



Boom Location # 4



Boom Location # 5



Boom Location # 6



KLM Environmental, LLC

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

Figure 2
Photographs
Quick Pantry # 19
Greenwood, SC
UST # 04785 4/12/21



Boom Location # 7



Boom Location # 8



Boom Location # 9



Boom Location # 10



Boom Location # 11



Boom Location # 12



KLM Environmental, LLC

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

Figure 3

Photographs
Quick Pantry # 19
Greenwood, SC
UST # 04785 4/12/21



Boom Location # 13



Boom Location # 14



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

Figure 4
Photographs
Quick Pantry # 19
Greenwood, SC
UST # 04785 4/12/21

- Boom floats at surface for easy retrieval, even when saturated
- Absorbs and retains oils and oil-based liquids - including lubricants, fuels and crude oil - without absorbing a drop of water
- Strong, zinc-plated carbon steel attachment clips and rings allow you to link booms together
- Bright white color makes boom easier to see in outdoor environments and clearly shows saturation level
- Can be incinerated after use to reduce waste or for fuels blending

Specifications

Fluid Absorbed	Oils, Fuels, Other Oil-Based Liquids Only
Color	White
Dimensions	ext. dia. 5" x 20' L
Absorbency	Up to 24 gal. per bag
Absorbency per	Up to 12 gal. per boom
Brand	PIG
Clip/Ring	Zinc Plated Carbon Steel
Filler	Polypropylene
Skin/Outer Mesh	Outer Mesh - Polyester
Sold as	2 booms per bag
Weight	15.3 lbs.
# per Pallet	8
Application	Spill Response
UNSPSC	47131907
Pigalog® Page Number	Page 60

Fw: Quick Pantry 19/ Foundry Road Stormwater Pipe(s)

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

Wed 4/14/2021 3:57 PM

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

1 attachment (2 MB)

WC31075_Report.pdf;

fyi...you prob want to get this scanned



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 [Facebook](#) [Twitter](#)



From: Hayes, Michael <hayesme@dhec.sc.gov>

Sent: Wednesday, April 14, 2021 3:54 PM

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

Cc: McCluskey, Christopher <MCCLUSCD@dhec.sc.gov>; Madden, Samuel <MADDENSI@dhec.sc.gov>

Subject: Re: Quick Pantry 19/ Foundry Road Stormwater Pipe(s)

Hey Ashleigh,

I received an update from both SCDOT and Greenwood Metro.

Todd Waldrep with SCDOT stated the following regarding ownership of the stormwater infrastructure: "I can't find anything on our end stating that we own or maintain anything outside of our 25' ROW on s-679"

Based on my previous email and SCDOT's response, this leads me to believe that the Greenwood Housing owns the pipe running through their property.

Brian Waldrep with Greenwood Metro provided me with the attached sampling report. I have not reviewed it but if you have any questions, please let me know. I can reach out, or provide you with contact information, for Metro's lab manager.

Also, Ronney Smith stopped Chris and I this afternoon while we were at the Quick Pantry observing their operation. Mr. Smith was curious about how he could be reimbursed. We told him his question would be better answered by UST. He didn't seem interested in a callback, but I wanted to make you aware.

Let me know if you need anything else.

Thanks,
Michael

Michael Hayes
Office Manager
Bureau of Environmental Health Services
S.C. Dept. of Health & Environmental Control
Office: (864) 227-5915
Mobile: (864) 983-7000
Fax: (864) 942-3680
Connect: www.scdhec.gov [Facebook](#) [Twitter](#)



From: Thrash, Ashleigh <thrasham@dhec.sc.gov>
Sent: Monday, April 5, 2021 12:08 PM
To: Hayes, Michael <hayesme@dhec.sc.gov>
Cc: McCluskey, Christopher <MCCLUSCD@dhec.sc.gov>; Madden, Samuel <MADDENSI@dhec.sc.gov>
Subject: Re: Quick Pantry 19/ Foundry Road Stormwater Pipe(s)

Thank you for the update Michael! Please let me know when you know more! And please update us as well when you get the results back from the sampling!

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 [Facebook](#) [Twitter](#)



From: Hayes, Michael <hayesme@dhec.sc.gov>
Sent: Monday, April 5, 2021 12:06 PM
To: Thrash, Ashleigh <thrasham@dhec.sc.gov>
Cc: McCluskey, Christopher <MCCLUSCD@dhec.sc.gov>; Madden, Samuel <MADDENSI@dhec.sc.gov>
Subject: Quick Pantry 19/ Foundry Road Stormwater Pipe(s)

Hey Ashleigh,

I called Rett Templeton (864-942-8556), Greenwood County Engineer, and he stated the county does not own any infrastructure (including the stormwater pipes) in that area. The roads belong to SCDOT per his records. He believes the current property owner would own the pipe running through 201 Foundry Road. Mr. Templeton referred me to the deed to see if anything was referenced. He was going to look a little deeper and get back with me.

I called Brian Waldrep (864-942-3901) with Greenwood Metro (sewer provider) and he stated that neither they nor Greenwood CPW own the stormwater pipes. Mr. Waldrep also believes that current property owner would own the pipe running through 201 Foundry Road. Mr. Waldrep will contact me when they have the results back. Greenwood Metro did pull samples from their manholes near the Quick Pantry and New York Ct. to ensure no product had gotten into their system.

I contacted Greenwood County SCDOT (864-227-6971) and spoke with John Timmerman. Mr. Timmerman has requested I meet him on the property today at 1:30 to discuss further. I'll update you after meeting with SCDOT.

Thanks,
Michael

Michael Hayes
Office Manager
Bureau of Environmental Health Services
S.C. Dept. of Health & Environmental Control
Office: (864) 227-5915
Mobile: (864) 983-7000
Fax: (864) 942-3680
Connect: www.scdhec.gov [Facebook](#) [Twitter](#)



Piedmont Fertilizer

104 KIRKSEY DR E
GREENWOOD, SC 29646

Inquiry Number: 6448076.1

April 15, 2021



The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

04/15/21

Site Name:

Piedmont Fertilizer
104 KIRKSEY DR E
GREENWOOD, SC 29646
EDR Inquiry # 6448076.1

Client Name:

KLM Environmental
P.O. Box 2704
Goose Creek, SC 29445
Contact: Mark L. Keller, PG



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2017	1"=500'	Flight Year: 2017	USDA/NAIP
2013	1"=500'	Flight Year: 2013	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1999	1"=500'	Acquisition Date: January 01, 1999	USGS/DOQQ
1994	1"=750'	Flight Date: February 02, 1994	USGS
1989	1"=500'	Flight Date: March 19, 1989	USGS
1981	1"=500'	Flight Date: March 09, 1981	USDA
1972	1"=500'	Flight Date: April 09, 1972	USGS
1964	1"=500'	Flight Date: September 01, 1964	USGS
1961	1"=500'	Flight Date: July 25, 1961	USGS
1951	1"=500'	Flight Date: May 14, 1951	USGS

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INQUIRY #: 6448076.1

YEAR: 2017

— = 500'





INQUIRY #: 6448076.1
YEAR: 2013

— = 500'





INQUIRY #: 6448076.1

YEAR: 2006

— = 500'





INQUIRY #: 6448076.1

YEAR: 1999

— = 500'





INQUIRY #: 6448076.1

YEAR: 1994

_____ = 750'



Subject boundary not shown because it exceeds image extent or image is not georeferenced.



INQUIRY #: 6448076.1

YEAR: 1994

— = 500'



Subject boundary not shown because it exceeds image extent or image is not georeferenced.



INQUIRY #: 6448076.1

YEAR: 1989

— = 500'





INQUIRY #: 6448076.1

YEAR: 1981

— = 500'





INQUIRY #: 6448076.1

YEAR: 1972

_____ = 500'





INQUIRY #: 6448076.1

YEAR: 1964

— = 500'





INQUIRY #: 6448076.1

YEAR: 1961

— = 500'





INQUIRY #: 6448076.1
YEAR: 1951
= 500'





RECEIVED
Delaney
FEB 24 2021
UST DIVISION

INITIAL GROUND-WATER ASSESSMENT REPORT

Facility Name: 104 East Kirksey Drive

Facility Address: 104 East Kirksey Drive, Greenwood, SC 29649

Facility Telephone Number: (864) 323-1049

UST Permit Number: Site ID #18814

UST Owner or Operator's Name: N/A

Facility Address: _____

Facility Telephone Number: _____

Property Owner's Name: Ronney Smith

Address: 107 Fairway Lakes Road, Greenwood, SC 29649

Phone Number: (864) 323-1049

Contractor: Force & Associates, Inc Cert. #: 17

Address: 147 Vera Road, Suite F, Lexington, South Carolina 29072

Phone Number: (803) 359-3200

Well Driller: Greg Force Cert. #: 1346

Address: Force & Associates, Inc., 147 Vera Road, Suite F, Lexington, South Carolina

Phone Number: (803) 359-3200

Receptor and Site Data

Please place a check in the appropriate answer block for each question:

Receptor Survey Questions	NO	YES*
Is there a drinking water supply well (public or private) or surface water supply intake within 1000 feet of the UST?	X	
Are irrigation or other non-drinking water well located within 1000 feet of the UST?	X	
Are there other potential receptors (i.e., utilities, surface waters, wetlands) less than 500 feet from the UST?		X

* If "yes" provide additional information:

Underground utilities are located near the center and western edge of the property. A

small stream is also located near the center of the property.

Were any water supply wells or surface waters within 250 ft. sampled?

Yes _____ No X (Show on site base map)

Is a public water supply line in the area? Yes X No _____ (Show on site base map)

Is the current use of the facility and surrounding properties commercial, residential, agricultural or industrial?

Site: Commercial & Residential

Adjacent Properties:

North: Vacant commercial buildings

East: Residential Apartments

South: Vacant Brownfields site

West: Quick Pantry 19 (UST Permit #04785)

UST Sites within 500 ft radius:

#	Name	Distance from site	UST Permit	Address
1	Quick Pantry 19	60 feet to the west	04785	1802 South Main Street

Soil and Boring/Monitoring Well Data

Primary Soil Type: Silty Clayey Sand

Well Installation Method and Date: Hand Auger on January 28, 2021

Development Method and Date: Bailer on January 28, 2021

Soil Sample obtained at N/A feet

SOIL ANALYTICAL DATA

Benzene (ug/kg)	Toluene (ug/kg)	Ethylbenzene (ug/kg)	Xylenes (ug/kg)	Naphthalene (ug/kg)	MTBE (ug/kg)
N/A	N/A	N/A	N/A	N/A	N/A

Benzo(a)- anthracene (ug/kg)	Benzo(b)- fluoranthene (ug/kg)	Benzo(k)- fluoranthene (ug/kg)	Chrysene (ug/kg)	Dibenz(a,h) anthracene (ug/kg)	Total PAH (ug/kg)	LEAD (mg/kg)
N/A	N/A	N/A	N/A	N/A	N/A	N/A

*For waste oil UST releases:

Chromium* (ug/kg)	Mercury* (ug/kg)	Selenium* (ug/kg)	Silver* (ug/kg)	Arsenic* (ug/kg)	Barium* (ug/kg)	Cadmium* (ug/kg)
---	---	---	---	---	---	---

Include Laboratory Data and Chain of Custody Form in Appendix B.

Ground-Water Data

Depth to Ground Water: 5 feet below top of casing Depth to FP, if present: N/A

Free Product Thickness: Sheen

Well Purging/Sampling Method: Bailer

Date Sampled: January 28, 2021

Equilibrated values:

Temperature: N/A pH: N/A

Dissolved Oxygen: N/A Specific Conductance: N/A

Soil/Water Disposal Method: Water used in Portland during abandonment. Soil
samples retained with remainder used to top off borehole during abandonment.

GROUNDWATER ANALYTICAL DATA

Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	MTBE (µg/l)	EDB (µg/l)	Naphthalene (µg/l)
5,970	29,700	3,200	16,200	<2,120	<0.012	<520

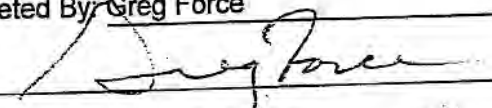
Benzo(a)- anthracene (µg/l)	Benzo(b)- fluoranthene (µg/l)	Benzo(k)- fluoranthene (µg/l)	Chrysene (µg/l)	Dibenzo(a,h) anthracene (µg/l)	Total PAH (µg/l)	Lead (µg/l)
-	-	-	-	-	-	-

*For waste oil UST releases:

Chromium* (µg/l)	Mercury* (µg/l)	Selenium* (µg/l)	Silver* (µg/l)	Arsenic* (µg/l)	Barium* (µg/l)	Cadmium* (µg/l)
—	—	—	—	—	—	—

Include Laboratory Data and Chain of Custody Form in Appendix B.

Report Completed By: Greg Force

Signature: 

DHEC Contractor Certification. # 17

Date: 2/4/21

Appendices

The appendices required for this report are as follows:

- Appendix A** Well Construction Log
- Appendix B** Soil Boring Log
- Appendix C** Laboratory Data
- Appendix D** Maps (Topographic and Site Base)
- Appendix E** Disposal Manifest(s). (Must be included for payment from SUPERB)

APPENDIX A
WELL CONSTRUCTION LOG

APPENDIX B
SOIL BORING LOG

104 East Kirksey Drive
(18814)

TW-1

Depth Interval (feet)	Lithology
.5'	Brown sandy clay, damp, no odor
1'	Brown sandy clay, damp, no odor
1.5'	Gray sandy clay, damp, no odor
2'	Brown and gray plastic clay, damp, no odor
2.5'	Brown and gray plastic clay, damp, no odor
3'	Brown and gray plastic clay, damp, odor
3.5'	Brown and gray plastic clay, damp, odor
4'	Brown and gray plastic clay with black organic layer, damp, odor
4.5'	Brown and gray plastic clay with black organic layer, damp, odor
5'	Brown and gray plastic clay with black organic layer, damp, odor
5.5'	Brown and gray plastic clay with black organic layer, damp, odor
6'	Brown and gray plastic clay, damp, odor

APPENDIX C
LABORATORY DATA



Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

February 03, 2021

Mr. Greg Force
Force & Associates
147 Vera Road
Suite G
Lexington, SC 29072

RE: Project: 104 East Kirksey Drive
Pace Project No.: 92519432

Dear Mr. Force:

Enclosed are the analytical results for sample(s) received by the laboratory on January 29, 2021. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Brandon Wiggins, Force & Associates



REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: 104 East Kirksey Drive
Pace Project No.: 92519432

Pace Analytical Services Charlotte
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12

South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: 104 East Kirksey Drive
Pace Project No.: 92519432

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92519432001	TW-1	Water	01/28/21 12:00	01/29/21 08:55
92519432002	FB	Water	01/28/21 12:15	01/29/21 08:55
92519432003	DUP	Water	01/28/21 00:00	01/29/21 08:55
92519432004	Trip Blank	Water	01/28/21 00:00	01/29/21 08:55

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Pace Analytical Services, LLC
9800 Kinney Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: 104 East Kirksey Drive
Pace Project No.: 92519432

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92519432001	TW-1	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	BSH	18	PASI-C
92519432002	FB	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	LMB	18	PASI-C
92519432003	DUP	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	BSH	18	PASI-C
92519432004	Trip Blank	EPA 8260D	LMB	18	PASI-C

PASI-C = Pace Analytical Services - Charlotte

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 104 East Kirksey Drive

Pace Project No.: 92519432

Sample: TW-1 Lab ID: 92519432001 Collected: 01/28/21 12:00 Received: 01/29/21 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	0.012	1	02/02/21 09:06	02/03/21 09:54	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	105	%	60-140		1	02/02/21 09:06	02/03/21 09:54	301-79-56	
8260 MSV Analytical Method: EPA 8260D Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	25000	16400	250		02/03/21 10:58	75-85-4	
tert-Amylmethyl ether	ND	ug/L	2500	760	250		02/03/21 10:58	994-05-8	
Benzene	5970	ug/L	1250	435	250		02/03/21 10:58	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	25000	13500	250		02/03/21 10:58	624-95-3	
tert-Butyl Alcohol	ND	ug/L	25000	22800	250		02/03/21 10:58	75-65-0	
tert-Butyl Formate	ND	ug/L	12500	6020	250		02/03/21 10:58	762-75-4	
1,2-Dichloroethane	ND	ug/L	1250	515	250		02/03/21 10:58	107-06-2	
Diisopropyl ether	ND	ug/L	1250	872	250		02/03/21 10:58	108-20-3	
Ethanol	ND	ug/L	50000	36000	250		02/03/21 10:58	64-17-5	
Ethylbenzene	3200	ug/L	1250	460	250		02/03/21 10:58	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	2500	2120	250		02/03/21 10:58	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1250	775	250		02/03/21 10:58	1634-04-4	
Naphthalene	ND	ug/L	1250	522	250		02/03/21 10:58	91-20-3	
Toluene	29700	ug/L	1250	502	250		02/03/21 10:58	108-88-3	
Xylene (Total)	16200	ug/L	1250	1250	250		02/03/21 10:58	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		250		02/03/21 10:58	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		250		02/03/21 10:58	17060-07-0	
Toluene-d8 (S)	98	%	70-130		250		02/03/21 10:58	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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Date: 02/03/2021 04:17 PM

Page 5 of 19



Pace Analytical Services, LLC
9800 Kinsey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: 104 East Kirksey Drive
Pace Project No.: 92519432

Sample: FB Lab ID: 92519432002 Collected: 01/28/21 12:15 Received: 01/29/21 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP									
Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.012	1	02/02/21 09:06	02/03/21 10:06	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	97	%	60-140		1	02/02/21 09:06	02/03/21 10:06	301-79-56	
8260 MSV									
Analytical Method: EPA 8260D Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		02/01/21 15:25	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		02/01/21 15:25	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/01/21 15:25	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		02/01/21 15:25	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		02/01/21 15:25	75-85-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		02/01/21 15:25	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		02/01/21 15:25	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		02/01/21 15:25	108-20-3	
Ethanol	ND	ug/L	200	144	1		02/01/21 15:25	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		02/01/21 15:25	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		02/01/21 15:25	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		02/01/21 15:25	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		02/01/21 15:25	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		02/01/21 15:25	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		02/01/21 15:25	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		1		02/01/21 15:25	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		02/01/21 15:25	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		02/01/21 15:25	2037-26-5	

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(704)875-9092

ANALYTICAL RESULTS

Project: 104 East Kirksey Drive
Pace Project No.: 92519432

Sample: DUP Lab ID: 92519432003 Collected: 01/28/21 00:00 Received: 01/29/21 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte									
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	02/02/21 09:06	02/03/21 10:29	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	104	%	60-140		1	02/02/21 09:06	02/03/21 10:29	301-79-56	
8260 MSV Analytical Method: EPA 8260D Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	25000	16400	250		02/03/21 11:36	75-85-4	
tert-Amylmethyl ether	ND	ug/L	2500	760	250		02/03/21 11:36	994-05-8	
Benzene	11000	ug/L	1250	435	250		02/03/21 11:36	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	25000	13500	250		02/03/21 11:36	624-95-3	
tert-Butyl Alcohol	ND	ug/L	25000	22800	250		02/03/21 11:36	75-85-0	
tert-Butyl Formate	ND	ug/L	12500	6020	250		02/03/21 11:36	762-75-4	
1,2-Dichloroethane	ND	ug/L	1250	515	250		02/03/21 11:36	107-06-2	
Diisopropyl ether	ND	ug/L	1250	872	250		02/03/21 11:36	108-20-3	
Ethanol	ND	ug/L	50000	36000	250		02/03/21 11:36	64-17-5	
Ethylbenzene	4280	ug/L	1250	460	250		02/03/21 11:36	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	2500	2120	250		02/03/21 11:36	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	1250	775	250		02/03/21 11:36	1634-04-4	
Naphthalene	ND	ug/L	1250	522	250		02/03/21 11:36	91-20-3	
Toluene	41500	ug/L	1250	502	250		02/03/21 11:36	108-88-3	
Xylene (Total)	21800	ug/L	1250	1250	250		02/03/21 11:36	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		250		02/03/21 11:36	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		250		02/03/21 11:36	17060-07-0	
Toluene-d8 (S)	97	%	70-130		250		02/03/21 11:36	2037-26-5	

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(704)875-9092

ANALYTICAL RESULTS

Project: 104 East Kirksey Drive

Pace Project No.: 92519432

Sample: Trip Blank Lab ID: 92519432004 Collected: 01/28/21 00:00 Received: 01/29/21 08:55 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260D									
Pace Analytical Services - Charlotte									
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		02/01/21 14:13	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		02/01/21 14:13	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		02/01/21 14:13	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		02/01/21 14:13	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		02/01/21 14:13	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		02/01/21 14:13	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		02/01/21 14:13	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		02/01/21 14:13	108-20-3	
Ethanol	ND	ug/L	200	144	1		02/01/21 14:13	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		02/01/21 14:13	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		02/01/21 14:13	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		02/01/21 14:13	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		02/01/21 14:13	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		02/01/21 14:13	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		02/01/21 14:13	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		02/01/21 14:13	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		02/01/21 14:13	17060-07-0	
Toluene-d8 (S)	97	%	70-130		1		02/01/21 14:13	2037-26-5	

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QUALITY CONTROL DATA

Project: 104 East Kirksey Drive
Pace Project No.: 92519432

QC Batch: 596714 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV SC
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92519432002, 92519432004

METHOD BLANK: 3146991

Matrix: Water

Associated Lab Samples: 92519432002, 92519432004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	02/01/21 13:37	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	02/01/21 13:37	
Benzene	ug/L	ND	5.0	1.7	02/01/21 13:37	
Diisopropyl ether	ug/L	ND	5.0	3.5	02/01/21 13:37	
Ethanol	ug/L	ND	200	144	02/01/21 13:37	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	02/01/21 13:37	
Ethylbenzene	ug/L	ND	5.0	1.8	02/01/21 13:37	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	02/01/21 13:37	
Naphthalene	ug/L	ND	5.0	2.1	02/01/21 13:37	
tert-Amyl Alcohol	ug/L	ND	100	65.6	02/01/21 13:37	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	02/01/21 13:37	
tert-Butyl Alcohol	ug/L	ND	100	91.0	02/01/21 13:37	
tert-Butyl Formate	ug/L	ND	50.0	24.1	02/01/21 13:37	
Toluene	ug/L	ND	5.0	2.0	02/01/21 13:37	
Xylene (Total)	ug/L	ND	5.0	5.0	02/01/21 13:37	
1,2-Dichloroethane-d4 (S)	%	109	70-130		02/01/21 13:37	
4-Bromofluorobenzene (S)	%	103	70-130		02/01/21 13:37	
Toluene-d8 (S)	%	100	70-130		02/01/21 13:37	

LABORATORY CONTROL SAMPLE: 3146992

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	44.2	88	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	961	96	70-130	
Benzene	ug/L	50	42.9	86	70-130	
Diisopropyl ether	ug/L	50	43.6	87	70-130	
Ethanol	ug/L	2000	1950	97	70-130	
Ethyl-tert-butyl ether	ug/L	100	92.9	93	70-130	
Ethylbenzene	ug/L	50	47.4	95	70-130	
Methyl-tert-butyl ether	ug/L	50	43.3	87	70-130	
Naphthalene	ug/L	50	48.1	96	70-130	
tert-Amyl Alcohol	ug/L	1000	1000	100	70-130	
tert-Amylmethyl ether	ug/L	100	90.7	91	70-130	
tert-Butyl Alcohol	ug/L	500	482	96	70-130	
tert-Butyl Formate	ug/L	400	379	95	70-130	
Toluene	ug/L	50	46.6	93	70-130	
Xylene (Total)	ug/L	150	140	94	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	

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QUALITY CONTROL DATA

Project: 104 East Kirksey Drive
Pace Project No.: 92519432

LABORATORY CONTROL SAMPLE: 3146992

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE SAMPLE: 3146994

Parameter	Units	92519438014 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	19.5	98	70-137	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	454	114	39-157	
Benzene	ug/L	ND	20	20.3	101	70-151	
Diisopropyl ether	ug/L	ND	20	18.2	91	63-144	
Ethanol	ug/L	ND	800	860	108	39-176	
Ethyl-tert-butyl ether	ug/L	ND	40	42.1	105	66-137	
Ethylbenzene	ug/L	ND	20	21.2	106	66-153	
Methyl-tert-butyl ether	ug/L	ND	20	19.3	95	54-156	
Naphthalene	ug/L	ND	20	22.0	110	61-148	
tert-Amyl Alcohol	ug/L	ND	400	429	107	54-153	
tert-Amylmethyl ether	ug/L	ND	40	39.2	98	69-139	
tert-Butyl Alcohol	ug/L	ND	200	266	133	43-188	
tert-Butyl Formate	ug/L	ND	160	87.2	55	10-170	
Toluene	ug/L	ND	20	21.2	106	59-148	
Xylene (Total)	ug/L	ND	60	61.9	103	63-158	
1,2-Dichloroethane-d4 (S)	%				102	70-130	
4-Bromofluorobenzene (S)	%				98	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 3146993

Parameter	Units	92519438012 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	5.2	4.6J		30	
Naphthalene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	109	107			
4-Bromofluorobenzene (S)	%	105	103			

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QUALITY CONTROL DATA

Project: 104 East Kirksey Drive
Pace Project No.: 92519432

SAMPLE DUPLICATE: 3146993

Parameter	Units	92519438012 Result	Dup Result	RPD	Max RPD	Qualifiers
Toluene-d8 (S)	%	99	99			

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QUALITY CONTROL DATA

Project: 104 East Kirksey Drive
Pace Project No.: 92519432

QC Batch: 597007 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV SC
Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92519432001, 92519432003

METHOD BLANK: 3148196

Matrix: Water

Associated Lab Samples: 92519432001, 92519432003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	02/03/21 03:28	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	02/03/21 03:28	
Benzene	ug/L	ND	5.0	1.7	02/03/21 03:28	
Diisopropyl ether	ug/L	ND	5.0	3.5	02/03/21 03:28	
Ethanol	ug/L	ND	200	144	02/03/21 03:28	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	02/03/21 03:28	
Ethylbenzene	ug/L	ND	5.0	1.8	02/03/21 03:28	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	02/03/21 03:28	
Naphthalene	ug/L	ND	5.0	2.1	02/03/21 03:28	
tert-Amyl Alcohol	ug/L	ND	100	65.6	02/03/21 03:28	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	02/03/21 03:28	
tert-Butyl Alcohol	ug/L	ND	100	91.0	02/03/21 03:28	
tert-Butyl Formate	ug/L	ND	50.0	24.1	02/03/21 03:28	
Toluene	ug/L	ND	5.0	2.0	02/03/21 03:28	
Xylene (Total)	ug/L	ND	5.0	5.0	02/03/21 03:28	
1,2-Dichloroethane-d4 (S)	%	101	70-130		02/03/21 03:28	
4-Bromofluorobenzene (S)	%	102	70-130		02/03/21 03:28	
Toluene-d8 (S)	%	98	70-130		02/03/21 03:28	

LABORATORY CONTROL SAMPLE: 3148197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	45.8	92	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	948	95	70-130	
Benzene	ug/L	50	45.5	91	70-130	
Diisopropyl ether	ug/L	50	45.6	91	70-130	
Ethanol	ug/L	2000	1980	99	70-130	
Ethyl-tert-butyl ether	ug/L	100	98.5	99	70-130	
Ethylbenzene	ug/L	50	45.5	91	70-130	
Methyl-tert-butyl ether	ug/L	50	47.1	94	70-130	
Naphthalene	ug/L	50	47.6	95	70-130	
tert-Amyl Alcohol	ug/L	1000	936	94	70-130	
tert-Amylmethyl ether	ug/L	100	93.1	93	70-130	
tert-Butyl Alcohol	ug/L	500	484	97	70-130	
tert-Butyl Formate	ug/L	400	394	99	70-130	
Toluene	ug/L	50	45.7	91	70-130	
Xylene (Total)	ug/L	150	136	91	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: 104 East Kirksey Drive
Pace Project No.: 92519432

LABORATORY CONTROL SAMPLE: 3148197

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3148198 3148199

Parameter	Units	92519457029 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	4000	4000	4090	4110	102	103	70-137	1	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	80000	80000	77200	80600	96	101	39-157	4	30	
Benzene	ug/L	10900	4000	4000	15300	16000	110	128	70-151	5	30	
Diisopropyl ether	ug/L	ND	4000	4000	4290	4260	99	98	63-144	1	30	
Ethanol	ug/L	59100	160000	160000	211000	218000	95	99	39-176	3	30	
Ethyl-tert-butyl ether	ug/L	ND	8000	8000	8270	8340	103	104	66-137	1	30	
Ethylbenzene	ug/L	1900	4000	4000	6050	6300	104	110	66-153	4	30	
Methyl-tert-butyl ether	ug/L	5140	4000	4000	9380	9650	106	113	54-156	3	30	
Naphthalene	ug/L	858J	4000	4000	4900	5050	101	105	61-148	3	30	
tert-Amyl Alcohol	ug/L	87500	80000	80000	173000	183000	107	120	54-153	6	30	
tert-Amylmethyl ether	ug/L	782J	8000	8000	8840	8870	101	101	69-139	0	30	
tert-Butyl Alcohol	ug/L	ND	40000	40000	45400	46200	101	103	43-188	2	30	
tert-Butyl Formate	ug/L	ND	32000	32000	32200	32600	101	102	10-170	1	30	
Toluene	ug/L	24000	4000	4000	28600	30600	115	164	59-148	7	30 M1	
Xylene (Total)	ug/L	12300	12000	12000	25000	25800	105	112	63-158	3	30	
1,2-Dichloroethane-d4 (S)	%						102	99	70-130			
4-Bromofluorobenzene (S)	%						99	100	70-130			
Toluene-d8 (S)	%						99	99	70-130			

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QUALITY CONTROL DATA

Project: 104 East Kirksey Drive
Pace Project No.: 92519432

QC Batch: 596875 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Laboratory: Pace Analytical Services - Charlotte
Associated Lab Samples: 92519432001, 92519432002, 92519432003

METHOD BLANK: 3147643 Matrix: Water
Associated Lab Samples: 92519432001, 92519432002, 92519432003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.011	02/03/21 09:19	
1-Chloro-2-bromopropane (S)	%	108	60-140		02/03/21 09:19	

LABORATORY CONTROL SAMPLE & LCSD: 3147644			3147645							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.25	0.27	101	108	60-140	7	20	
1-Chloro-2-bromopropane (S)	%				101	107	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3147647					3147648							
Parameter	Units	92519333017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	0.57	0.25	0.25	0.83	0.76	105	77	60-140	9	20	
1-Chloro-2-bromopropane (S)	%						115	115	60-140			

SAMPLE DUPLICATE: 3147646		92519333016				Dup Result		RPD	Max RPD	Qualifiers
Parameter	Units	Result								
1,2-Dibromoethane (EDB)	ug/L	14.4				11.0		27	20	D6
1-Chloro-2-bromopropane (S)	%	0				0				S4

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kinney Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: 104 East Kirksey Drive
Pace Project No.: 92519432

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 104 East Kirksey Drive

Pace Project No.: 92519432

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92519432001	TW-1	EPA 8011	596875	EPA 8011	596934
92519432002	FB	EPA 8011	596875	EPA 8011	596934
92519432003	DUP	EPA 8011	596875	EPA 8011	596934
92519432001	TW-1	EPA 8260D	597007		
92519432002	FB	EPA 8260D	596714		
92519432003	DUP	EPA 8260D	597007		
92519432004	Trip Blank	EPA 8260D	596714		

REPORT OF LABORATORY ANALYSIS

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Date: 02/03/2021 04:17 PM


Page 16 of 19

Laboratory receiving samples:
 Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☒ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Force Associates

Project # **WO# : 92519432**



92519432

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client

☐ Commercial ☒ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☒ No

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Thermometer: ☒ IR Gun ID: 92T064 Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temp: 1.5 Correction Factor: Add/Subtract (°C) -0.1

Cooler Temp Corrected (°C): 1.4

USDA Regulated Soil (☒ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☒ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☒ No

			Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.	
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
Includes Date/Time/ID/Analysis Matrix: <u>WT</u>			
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		

Field Data Required? ☐ Yes ☒ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LHg

**Bottom half of box is to list number of bottles

Project #

WO#: 92519432

PM: BV

Due Date: 02/05/21

CLIENT: 92-Force

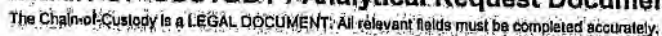
Bottom-half of box is to list number of

Item #	BP4U-125 mL Plastic Unpreserved (N/A) (C-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (C-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (Sg)	BP4C-125 mL Plastic NaOH (pH > 12) (C-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (C-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (C-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG9A)-250 mL Amber NH4Cl (N/A) (C-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9B-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-VPH/gas kit (N/A)	V/GK (3 vials per kit)-VPH/gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (NH2)2SO4 (Sg 3-9-7)	AG9U-100 mL Amber Unpreserved vials (N/A)	VS6U-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1																6												
2																6												
3																6												
4																2												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #


Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers).



Page: 1 of 1

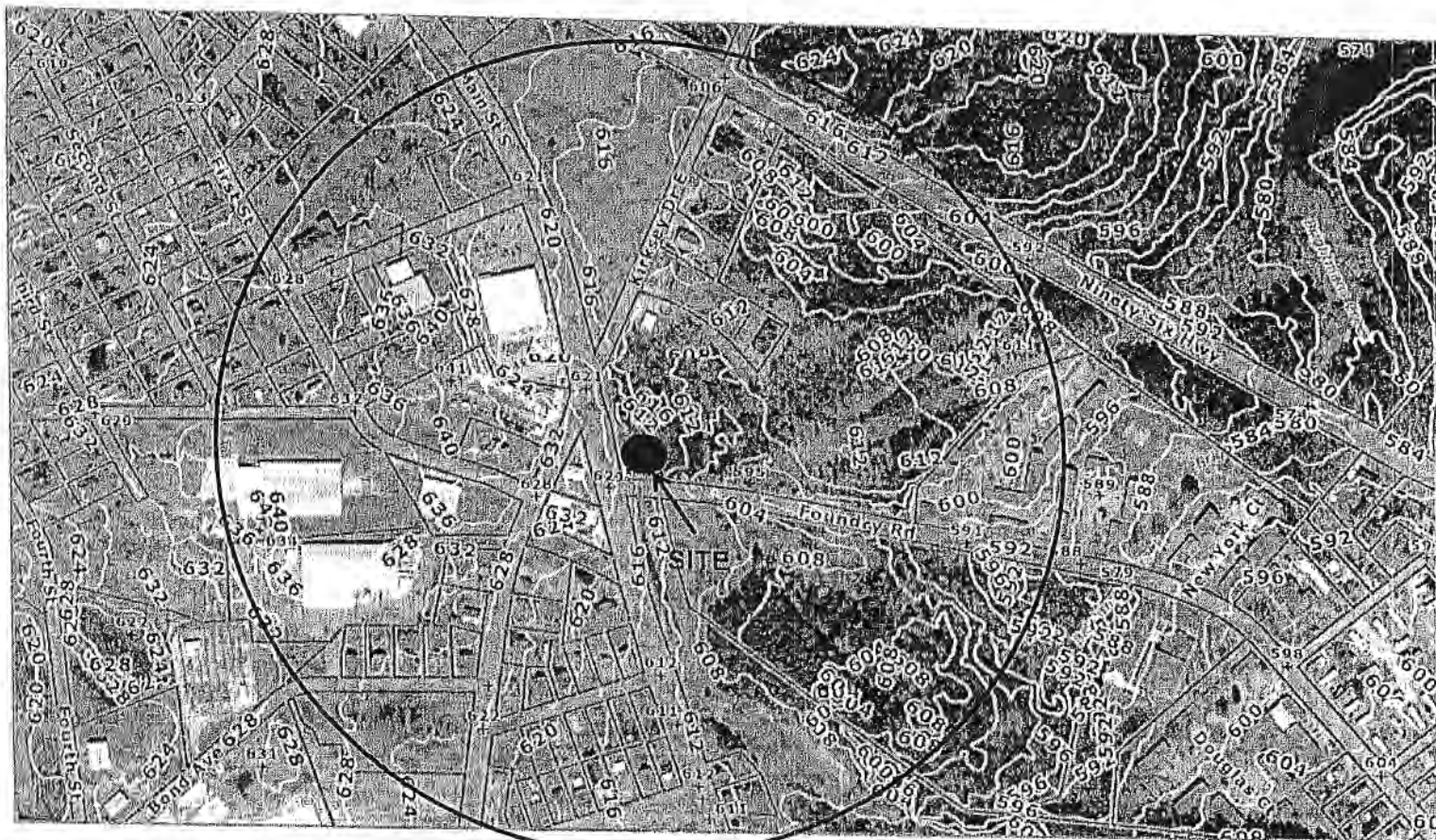
[illegible]

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
*PLEASE INCLUDE RESULTS FOR: Naph., 1,2 DCA, MTBE, Ethanol, & Oxygenates)	Brandon Wiggins 	1/29/21	800am	Jana vs PACE HWL 	1/29/21	8:55	
		1/29/21	608		1/29/21	1508	1.4 Y N Y

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Brandon Wiggins					
SIGNATURE of SAMPLER: 	DATE Signed (MM/DD/YYYY) 1/28/21				

APPENDIX D

MAPS



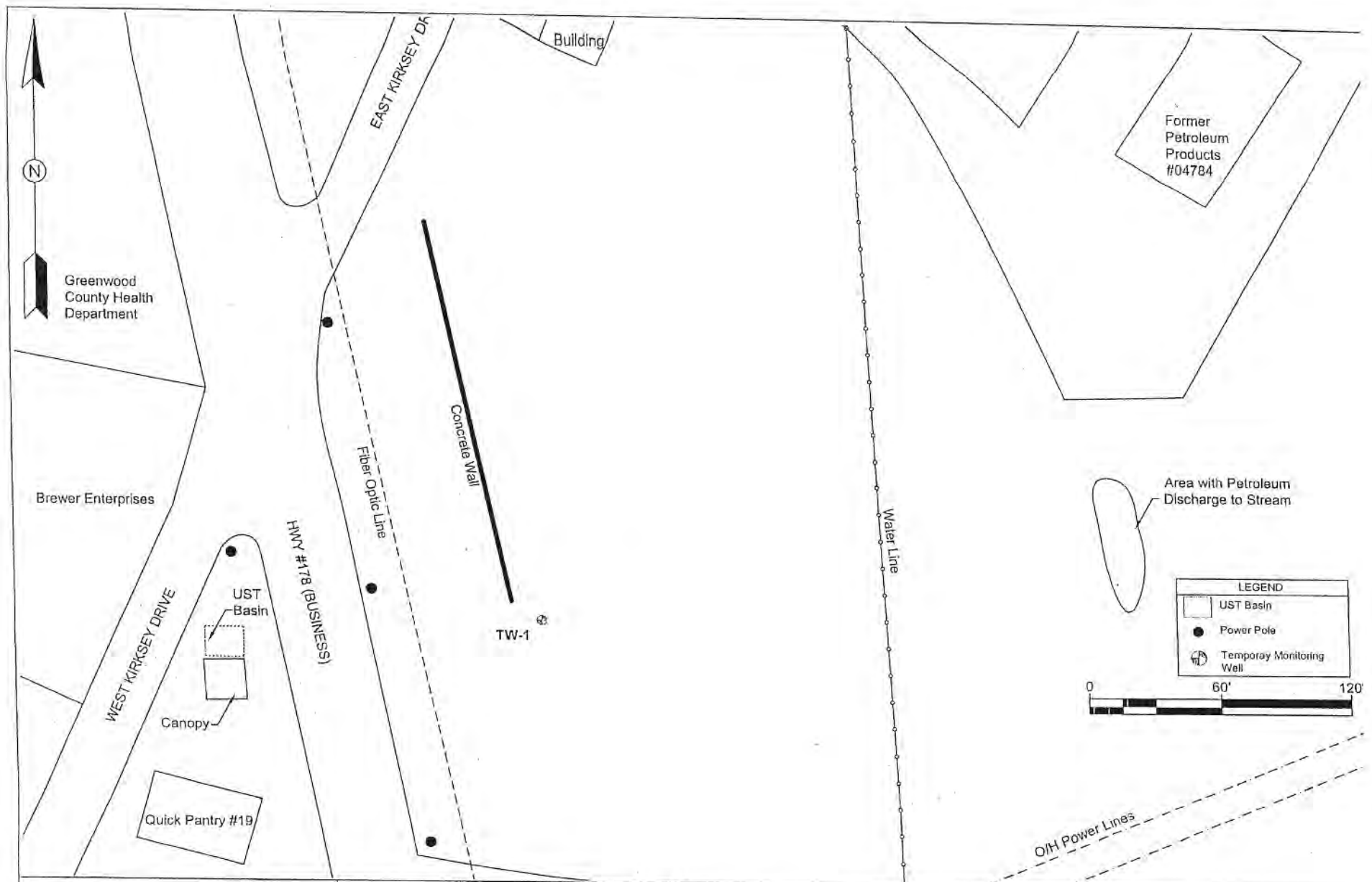
SCALE 1"= 400'

1000' Radius

Force & Associates, Inc.
 147 Vera Road, Suite F
 Lexington, SC 29072
 Phone: 803-359-3200

TOPOGRAPHY MAP
 104 EAST KIRKSEY DRIVE
 SCDHEC #18814
 104 EAST KIRKSEY DRIVE
 GREENWOOD, SC 29646

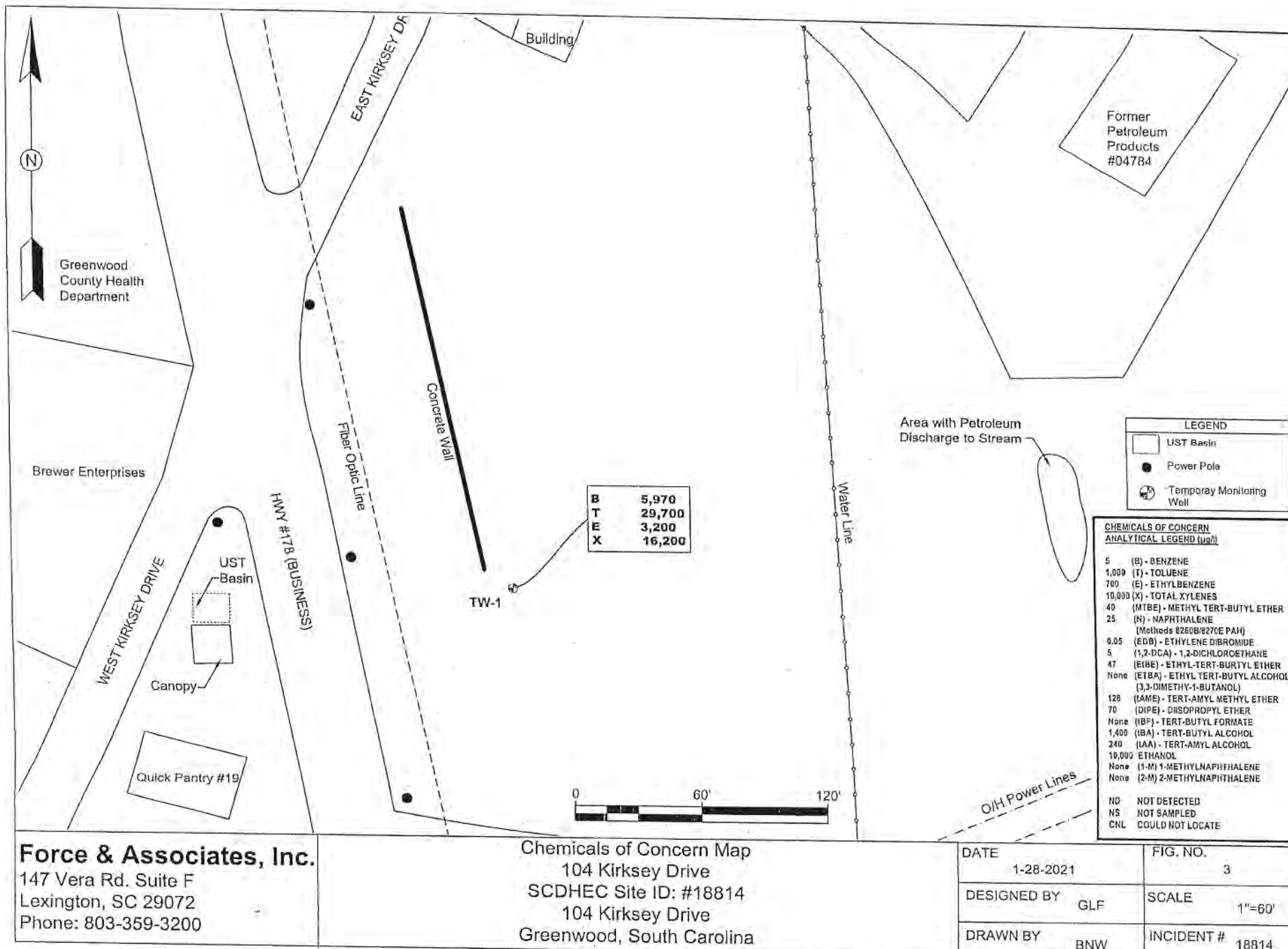
Figure	1
Drawn By	BNW
Checked By	GLF
Date	1/28/21



Force & Associates, Inc.
 147 Vera Rd. Suite F
 Lexington, SC 29072
 Phone: 803-359-3200

Site Map
 104 Kirksey Drive
 SCDHEC Site ID: #18814
 104 Kirksey Drive
 Greenwood, South Carolina

DATE	1-28-2021	FIG. NO.	2
DESIGNED BY	GLF	SCALE	1"=60'
DRAWN BY	BNW	INCIDENT #	18814



Force & Associates, Inc.
 147 Vera Rd. Suite F
 Lexington, SC 29072
 Phone: 803-359-3200

Chemicals of Concern Map
 104 Kirksey Drive
 SCDHEC Site ID: #18814
 104 Kirksey Drive
 Greenwood, South Carolina

DATE	1-28-2021	FIG. NO.	3
DESIGNED BY	GLF	SCALE	1"=60'
DRAWN BY	BNW	INCIDENT #	18814

FEBRUARY 2007 MONITORING REPORT
Petroleum Products
Greenwood, South Carolina
Site ID# 04784



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 9th, 2007

UST PROGRAM
DOCKETING # 3
Tech

Prepared for:

Ms. Sonya Utz
SCDHEC BUSTM
2600 Bull Street
Columbia, SC 29201

Prepared by:

KLM Environmental, LLC
Post Office Box 2704
Goose Creek, SC 29445
(843) 870-4285 / fax: 797-1893

Project# 05087

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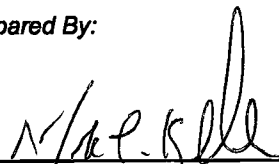
FEB 22 2007

SIGNATURE PAGE

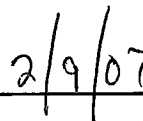
**UNDERGROUND STORAGE
TANK PROGRAM**

This report entitled "**February 2007 MONITORING REPORT**" for **Petroleum Products** 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:



Mark L. Keller, PG
President
KLM Environmental, LLC



Date



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2.0	SITE DESCRIPTION _____	2
3.0	GROUNDWATER QUALITY _____	3
4.0	CONCLUSIONS _____	5
5.0	REFERENCES _____	6

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DESCRIPTION	FIGURE
GENERAL SITE LOCATION _____	1
SITE MAP _____	2
PIEZOMETRIC MAP _____	3
COC MAP _____	4

LIST OF APPENDICES

DESCRIPTION	APPENDIX
FIGURES _____	A
LABORATORY DATA _____	B
DISPOSAL MANIFEST _____	C

LIST OF TABLES

DESCRIPTION	TABLE
GROUNDWATER ELEVATION DATA _____	1
SUMMARY OF ANALYTICAL DATA _____	2

1.0 INTRODUCTION

The Petroleum Products site is located at 160 Kirksey Drive, Greenwood, South Carolina. A general site location map is provided as Figure 1 in Appendix A. The initial release was reported on December 30th, 1991 and has been undergoing assessment and monitoring activities since that date. This report serves to present results of the sampling conducted at Petroleum Products, at the request of the SCDHEC Project Manager.

RECEIVED

FEB 22 2007

UNDERGROUND STORAGE
TANK PROGRAM

UNDERGROUND STORAGE
TANK PROGRAM**2.0 SITE DESCRIPTION**

Currently, there are 9 shallow wells located at the site along with one telescoping well. Figure 2 serves as a site map showing well locations. The piezometric data is provided in the following table and in Appendix A, Figure 3.

TABLE 1 Groundwater Data (feet) Petroleum Products Greenwood, SC						
Monitoring Well	Date	TOC Elevation	Screened Interval	TOC to FP	TOC to GW	GW Elevation
MW-1	1/30/07	98.11	5-25	--	4.87	93.24
MW-2	1/30/07	100.64	3-18	--	5.82	94.82
MW-3	1/30/07	98.33	3-18	--	3.87	94.46
MW-4	1/30/07	95.57	3-18	--	1.67	93.90
MW-5	1/30/07	95.87	3-18	--	4.17	91.70
MW-6	1/30/07	98.88	3-18	--	4.93	93.95
MW-7R	1/30/07	97.18	2-17	--	2.64	94.54
MW-8	1/30/07	97.74	3-18	--	4.73	93.01
MW-9	1/30/07	98.44	3-18	--	5.06	93.38
T-1	1/30/07	97.92	35-40	--	4.69	93.23

UNK - Unknowns

Depths to fluid measurements were collected relative to the top of casing for each well using a hydrocarbon interface probe capable of detecting and measuring a hydrocarbon product thickness of 0.01 foot or 1/8 inch. Groundwater elevations were then determined by subtracting depth to fluid measurements from the top of casing elevations and a piezometric contour map of the uppermost aquifer surface was developed (Appendix A, Figure 3).

3.0 GROUNDWATER QUALITY

KLM personnel performed the groundwater-sampling event on January 30th, 2007. Results from the last sampling event are included in the table for comparison. Results for all wells sampled are as follows:

TABLE 2 Summary of Analytical Data Petroleum Products Greenwood, SC								
Well #	Date Sampled	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene	EDB
RBSL	—	5	1000	700	10000	40	25	0.05
MW-1	2/3/05	49	11	8	31	7	3	<0.02
	1/30/07	187	63.4	56.2	109	11.5	19.6	<0.01
MW-2	2/3/05	<1	<1	<1	<3	<1	<1	<0.02
	1/30/07	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<0.01
MW-3	2/3/05	<1	<1	<1	<3	<1	<1	<0.02
	1/30/07	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<0.01
MW-4	2/3/05	NS	NS	NS	NS	NS	NS	NS
	1/30/07	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<0.01
MW-5	2/3/05	NS	NS	NS	NS	NS	NS	NS
	1/30/07	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<0.01
MW-6	2/3/05	<1	<1	<1	<3	<1	<1	<0.02
	1/30/07	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<0.01
MW-7R	2/3/05	<1	<1	<1	<3	<1	<1	<0.02
	1/30/07	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<0.01
MW-8	2/3/05	1	<1	<1	1.1E	<1	<1	<0.02
	1/30/07	1.38	<1.0	<1.0	<3.0	<1.0	<5.0	<0.01
MW-9	2/3/05	<1	<1	<1	<3	<1	<1	<0.02
	1/30/07	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<0.01
T-1	2/3/05	<1	<1	<1	<3	<1	<1	<0.02
	1/30/07	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<0.01

Note: All results in µg/l. Numbers in bold exceed RBSL.

A minimum of three well volumes were purged from each monitoring well not bracketing the water table prior to sample collection using an electric purge pump. Immediately after well purging was completed, groundwater samples were collected using disposable bottom entry sampling bailers, decanted into sterile glass sample containers provided by the analytical laboratory, and preserved in accordance with United States Environmental Protection Agency (USEPA) sampling protocol. Standard field parameters (pH, specific conductivity, temperature, dissolved oxygen, salinity, and turbidity) were measured and recorded for each sample during well purging or at the time of collection. Following collection in the field, the groundwater samples were submitted to the analytical laboratory and analyzed for Benzene, Toluene, Ethylbenzene, total Xylenes (BTEX), Methyl-tert Butyl Ether (MTBE), Naphthalene, and EDB. A copy of the laboratory data and the

chain-of-custody for the well sampling event is provided in Appendix B. A map with concentration levels for each well is provided as Figure 4 in Appendix A. A disposal manifest for the contaminated purge water is provided in Appendix C.

4.0 CONCLUSIONS

Contaminant levels have remained steady at the site. Monitoring well MW-1 contains Benzene above the RBSLs. These levels are only slightly above the established RBSLs and have only increased slightly over the last two years. KLM recommends calculating the SSTLs for the site and comparing those levels to the current contaminant level in MW-1. The SSTLs should be well above the current contaminant level at the site. After SSTLs are calculated, a No Further Action status should be able to be issued and the monitoring wells permanently abandoned.

5.0 REFERENCES

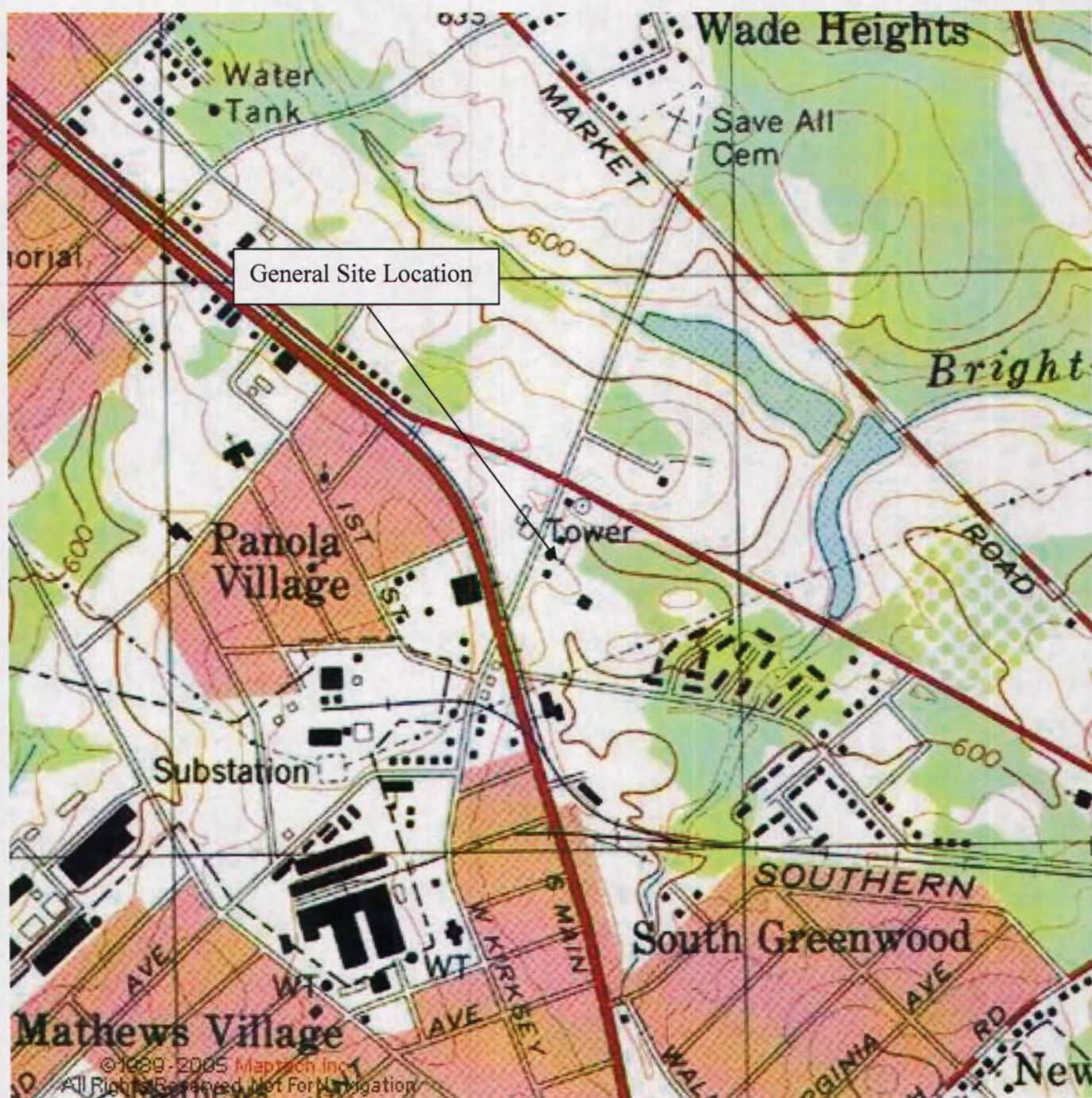
Delta Environmental Consultants, Inc., *Monitoring Report*, February, 2005.

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management Underground Storage Tank Program, *South Carolina Risk-Based Corrective Action for Petroleum Releases*, May 15, 2001.

APPENDIX A

Figures





KLM Environmental, LLC

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

Figure 1
USGS Map
Petroleum Products
Greenwood, SC
UST # 04784

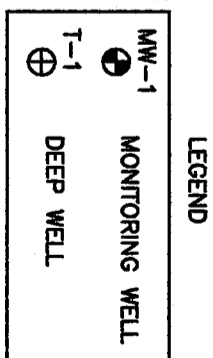
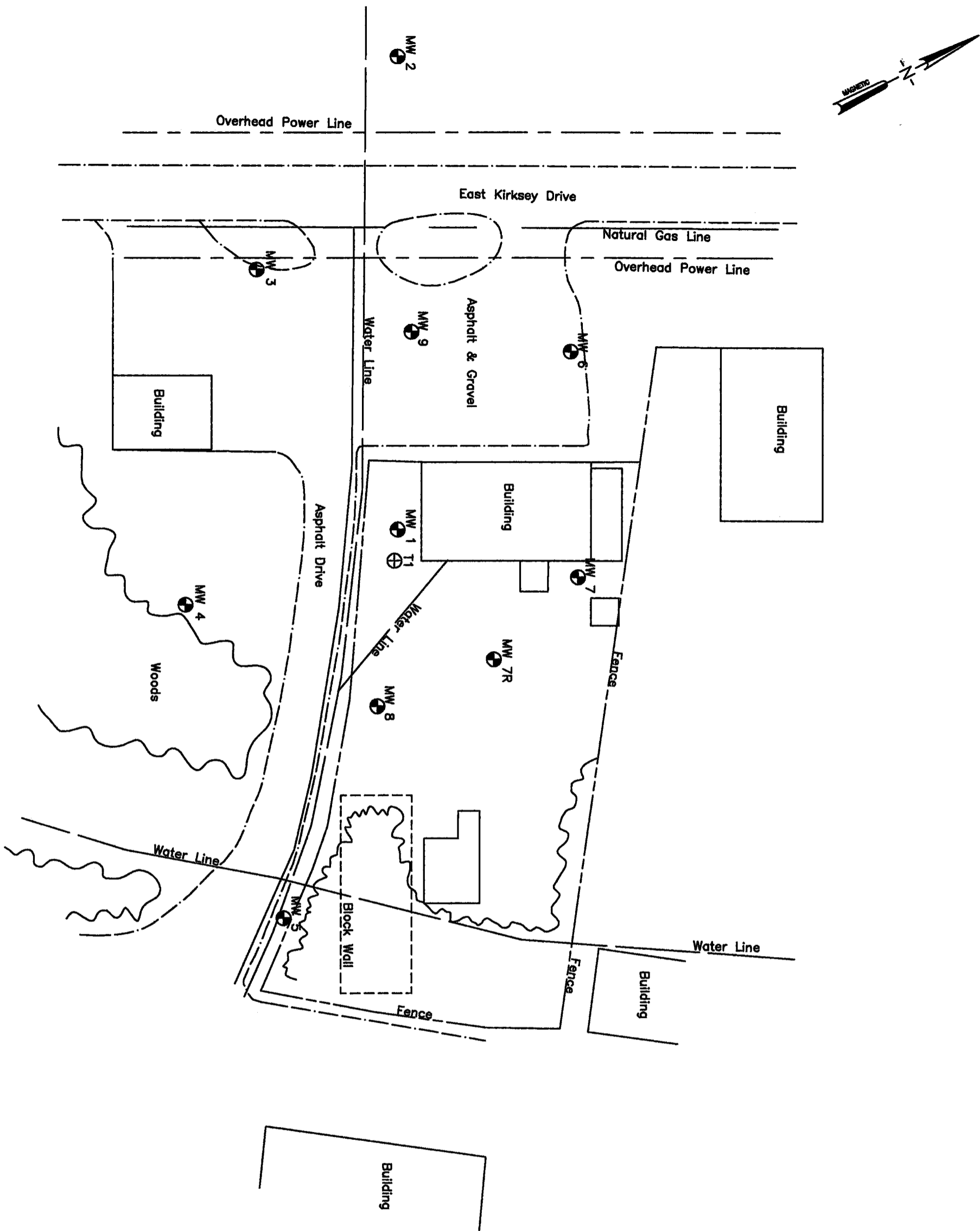


FIGURE 2
SITE MAP
 PETROLEUM PRODUCTS
 GREENWOOD, SC SITE ID# 04784



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

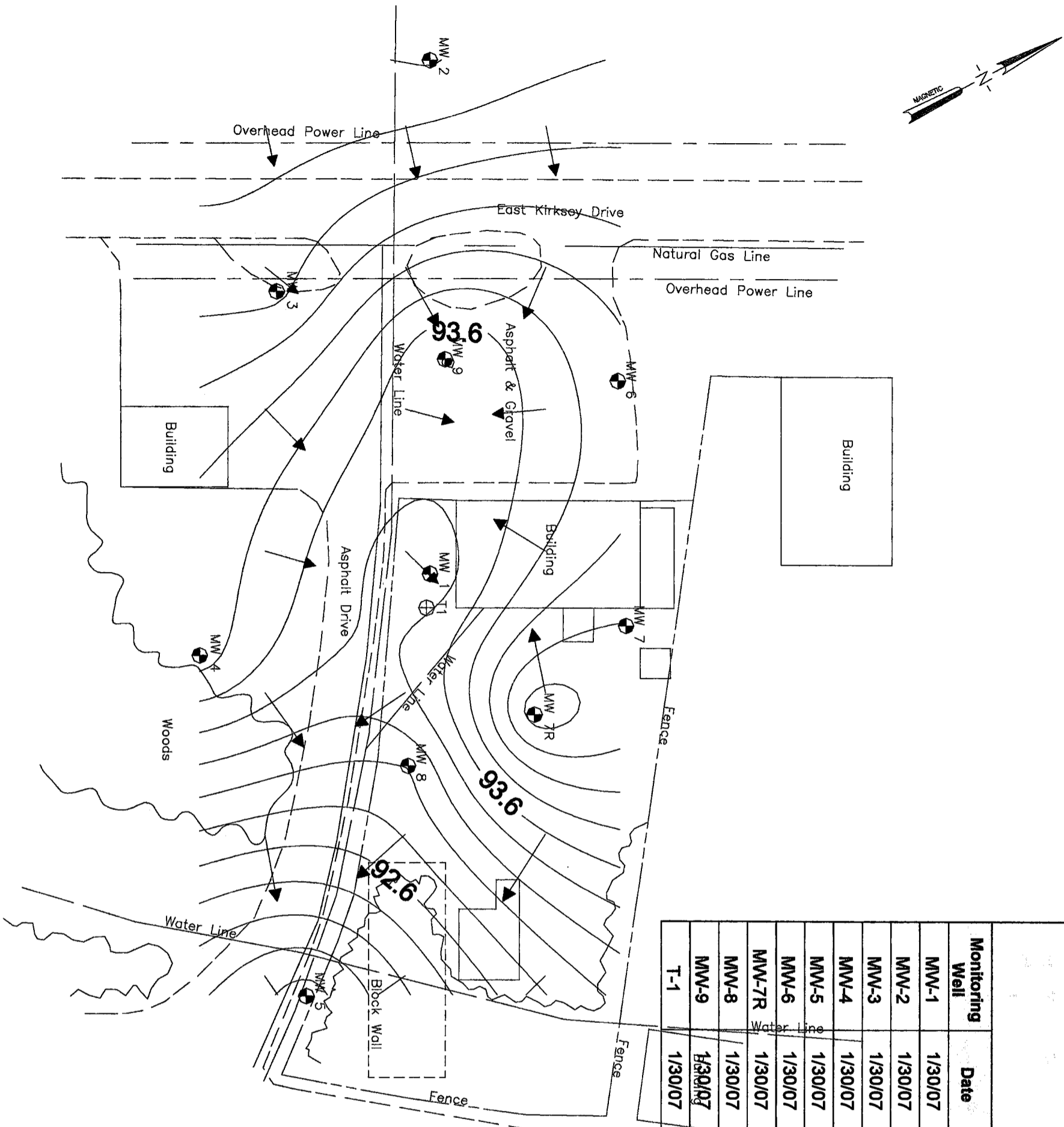


TABLE 1
Groundwater Data (feet)
Petroleum Products
Greenwood, SC

Monitoring Well	Date	TOC Elevation	Screened Interval	TOC to FP	TOC to GW	GW Elevation
MW-1	1/30/07	98.11	5-25	-	4.87	93.24
MW-2	1/30/07	100.64	3-18	-	5.82	94.82
MW-3	1/30/07	98.33	3-18	-	3.87	94.46
MW-4	1/30/07	95.57	3-18	-	1.67	93.90
MW-5	1/30/07	95.87	3-18	-	4.17	91.70
MW-6	1/30/07	98.88	3-18	-	4.93	93.95
MW-7R	1/30/07	97.18	2-17	-	2.64	94.54
MW-8	1/30/07	97.74	3-18	-	4.73	93.01
MW-9	1/30/07	98.44	3-18	-	5.06	93.38
T-1	1/30/07	97.92	35-40	-	4.69	93.23

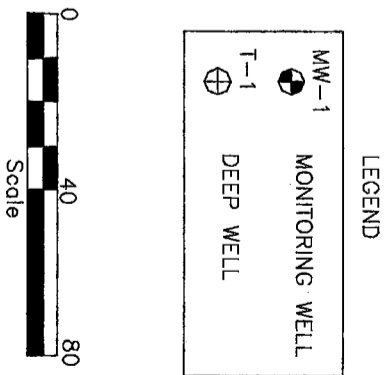


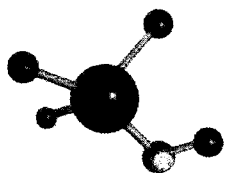
FIGURE 3
PIEZOMETRIC MAP
PETROLEUM PRODUCTS
GREENWOOD, SC SITE ID# 04784



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

APPENDIX B

Laboratory Data



ACCESS
ANALYTICAL, INC.

ANALYTICAL REPORT

CLIENT

KLM Environmental
P. O. Box 2704
Goose Creek, SC 29445

ATTENTION

Mark Keller

PROJECT ID

KLM ENV-Petroleum Products

LABORATORY REPORT NUMBER

207020102

DATE

02/08/2007

Primary Data Review By

Curtis Ekker
Data Validation Manager, GCAL

Secondary Data Review By

Ashley B. Amick
Project Manager, Access Analytical
aamick@accessanalyticalinc.com

PLEASE NOTE:

- Unless otherwise noted, all analysis on this report performed at Gulf Coast Analytical Labs (GCAL), 7979 GSRI Rd. Baton Rouge, LA 70820.
- GCAL is SCDHEC certified laboratory # 73006, NCDENR certified lab # 618, GA certified lab # LA-01955, NELAP certified laboratory # 01955
- Local support services for this project are provided by Access Analytical, Inc.. Access Analytical is a representative of GCAL serving clients in the SC/NC/GA areas. All questions regarding this report should be directed to your local Access Analytical representative at 803.781.4243 or toll free at 888.315.4243.

CASE NARRATIVE

Client: KLM Environmental **Report:** 207020102

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B analysis, sample 20702010201 (MW-1) had to be diluted due to compounds that were detected above the linear range of the calibration.

In the SW-846 8260B analysis for analytical batch 342197, the LCS/LCSD exhibited RPD failures; however, all compounds were recovered within control limits.

In the SW-846 8260B analysis for analytical batch 342236, 1 and 2-Dichloroethane was detected at low levels in the blank. This is due to probable laboratory contamination.

SEMI-VOLATILES GAS CHROMATOGRAPHY

In the 8011 analysis for prep batch 341992, no MS/MSD was performed due to insufficient sample volume. All LCS/LCSD recoveries and RPDs were acceptable.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with ISO Guide 25 and NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.



GCAL-11-000001

CURTIS EKKER
DATA VALIDATION MANAGER
GCAL REPORT 207020102

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20702010201	MW-1	Water	01/30/2007 14:20	02/01/2007 09:10
20702010202	MW-2	Water	01/30/2007 12:00	02/01/2007 09:10
20702010203	MW-3	Water	01/30/2007 11:50	02/01/2007 09:10
20702010204	MW-4	Water	01/30/2007 12:50	02/01/2007 09:10
20702010205	MW-5	Water	01/30/2007 12:40	02/01/2007 09:10
20702010206	MW-6	Water	01/30/2007 11:40	02/01/2007 09:10
20702010207	MW-7R	Water	01/30/2007 12:30	02/01/2007 09:10
20702010208	MW-8	Water	01/30/2007 12:20	02/01/2007 09:10
20702010209	MW-9	Water	01/30/2007 11:30	02/01/2007 09:10
20702010210	T-1	Water	01/30/2007 14:00	02/01/2007 09:10

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20702010201	MW-1	Water	01/30/2007 14:20	02/01/2007 09:10

8260B, Volatiles

CAS#	Parameter	Result	RDL	REG LIMIT	Units
71-43-2	Benzene	187	4.00		ug/L

8260B, Volatiles

CAS#	Parameter	Result	RDL	REG LIMIT	Units
108-88-3	Toluene	63.4	1.00		ug/L
100-41-4	Ethylbenzene	56.2	1.00		ug/L
1330-20-7	Xylene (total)	109	3.00		ug/L
91-20-3	Naphthalene	19.6	5.00		ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	11.5	1.00		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20702010208	MW-8	Water	01/30/2007 12:20	02/01/2007 09:10

8260B, Volatiles

CAS#	Parameter	Result	RDL	REG LIMIT	Units
71-43-2	Benzene	1.38	1.00		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20702010201	MW-1	Water	01/30/2007 14:20	02/01/2007 09:10

8260B, Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			4	02/06/2007 18:34	ADI	342236
CAS#	Parameter		Result	RDL	REG LIMIT	Units
71-43-2	Benzene		187	4.00		ug/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	200	170	ug/L	85	78 - 130
1868-53-7	Dibromofluoromethane	200	179	ug/L	90	77 - 127
2037-26-5	Toluene d8	200	178	ug/L	89	76 - 134
17060-07-0	1,2-Dichloroethane-d4	200	166	ug/L	83	71 - 127

8260B, Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/06/2007 18:57	ADI	342236
CAS#	Parameter		Result	RDL	REG LIMIT	Units
108-88-3	Toluene		63.4	1.00		ug/L
100-41-4	Ethylbenzene		56.2	1.00		ug/L
1330-20-7	Xylene (total)		109	3.00		ug/L
91-20-3	Naphthalene		19.6	5.00		ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)		11.5	1.00		ug/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	44.9	ug/L	90	78 - 130
1868-53-7	Dibromofluoromethane	50	45.4	ug/L	91	77 - 127
2037-26-5	Toluene d8	50	45.7	ug/L	91	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	42.5	ug/L	85	71 - 127

8011, EDB & DBCP

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
02/01/2007 11:00	341992	8011	1	02/01/2007 18:58	WAS	342052
CAS#	Parameter		Result	RDL	REG LIMIT	Units
106-93-4	1,2-Dibromoethane		ND	0.010		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20702010202	MW-2	Water	01/30/2007 12:00	02/01/2007 09:10

8260B, Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/06/2007 01:24	ADI	342197

CAS#	Parameter	Result	RDL	REG LIMIT	Units
71-43-2	Benzene	ND	1.00		ug/L
108-88-3	Toluene	ND	1.00		ug/L
100-41-4	Ethylbenzene	ND	1.00		ug/L
1330-20-7	Xylene (total)	ND	3.00		ug/L
91-20-3	Naphthalene	ND	5.00		ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	1.00		ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	44.4	ug/L	89	78 - 130
1868-53-7	Dibromofluoromethane	50	46.9	ug/L	94	77 - 127
2037-26-5	Toluene d8	50	49.4	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	45.7	ug/L	91	71 - 127

8011, EDB & DBCP

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
02/01/2007 11:00	341992	8011	1	02/01/2007 19:19	WAS	342052

CAS#	Parameter	Result	RDL	REG LIMIT	Units
106-93-4	1,2-Dibromoethane	ND	0.010		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20702010203	MW-3	Water	01/30/2007 11:50	02/01/2007 09:10

8260B, Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/06/2007 01:49	ADI	342197

CAS#	Parameter	Result	RDL	REG LIMIT	Units
71-43-2	Benzene	ND	1.00		ug/L
108-88-3	Toluene	ND	1.00		ug/L
100-41-4	Ethylbenzene	ND	1.00		ug/L
1330-20-7	Xylene (total)	ND	3.00		ug/L
91-20-3	Naphthalene	ND	5.00		ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	1.00		ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	42.6	ug/L	85	78 - 130
1868-53-7	Dibromofluoromethane	50	44.6	ug/L	89	77 - 127
2037-26-5	Toluene d8	50	48.5	ug/L	97	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	46.7	ug/L	93	71 - 127

8011, EDB & DBCP

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
02/01/2007 11:00	341992	8011	1	02/01/2007 19:39	WAS	342052

CAS#	Parameter	Result	RDL	REG LIMIT	Units
106-93-4	1,2-Dibromoethane	ND	0.010		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20702010204	MW-4	Water	01/30/2007 12:50	02/01/2007 09:10

8260B, Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/06/2007 02:11	ADI	342197

CAS#	Parameter	Result	RDL	REG LIMIT	Units
71-43-2	Benzene	ND	1.00		ug/L
108-88-3	Toluene	ND	1.00		ug/L
100-41-4	Ethylbenzene	ND	1.00		ug/L
1330-20-7	Xylene (total)	ND	3.00		ug/L
91-20-3	Naphthalene	ND	5.00		ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	1.00		ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	44.3	ug/L	89	78 - 130
1868-53-7	Dibromofluoromethane	50	47.6	ug/L	95	77 - 127
2037-26-5	Toluene d8	50	49	ug/L	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	46.3	ug/L	93	71 - 127

8011, EDB & DBCP

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
02/01/2007 11:00	341992	8011	1	02/01/2007 19:59	WAS	342052

CAS#	Parameter	Result	RDL	REG LIMIT	Units
106-93-4	1,2-Dibromoethane	ND	0.010		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20702010205	MW-5	Water	01/30/2007 12:40	02/01/2007 09:10

8260B, Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/06/2007 02:33	ADI	342197

CAS#	Parameter	Result	RDL	REG LIMIT	Units
71-43-2	Benzene	ND	1.00		ug/L
108-88-3	Toluene	ND	1.00		ug/L
100-41-4	Ethylbenzene	ND	1.00		ug/L
1330-20-7	Xylene (total)	ND	3.00		ug/L
91-20-3	Naphthalene	ND	5.00		ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	1.00		ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	43.4	ug/L	87	78 - 130
1868-53-7	Dibromofluoromethane	50	47.3	ug/L	95	77 - 127
2037-26-5	Toluene d8	50	47.9	ug/L	96	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	47.2	ug/L	94	71 - 127

8011, EDB & DBCP

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
02/01/2007 11:00	341892	8011	1	02/01/2007 20:19	WAS	342052

CAS#	Parameter	Result	RDL	REG LIMIT	Units
106-93-4	1,2-Dibromoethane	ND	0.010		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20702010206	MW-6	Water	01/30/2007 11:40	02/01/2007 09:10

8260B, Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/06/2007 02:55	ADI	342197

CAS#	Parameter	Result	RDL	REG LIMIT	Units
71-43-2	Benzene	ND	1.00		ug/L
108-88-3	Toluene	ND	1.00		ug/L
100-41-4	Ethylbenzene	ND	1.00		ug/L
1330-20-7	Xylene (total)	ND	3.00		ug/L
91-20-3	Naphthalene	ND	5.00		ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	1.00		ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	45	ug/L	90	78 - 130
1868-53-7	Dibromofluoromethane	50	48.6	ug/L	97	77 - 127
2037-26-5	Toluene d8	50	49.2	ug/L	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	46.9	ug/L	94	71 - 127

8011, EDB & DBCP

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
02/01/2007 11:00	341992	8011	1	02/01/2007 20:40	WAS	342052

CAS#	Parameter	Result	RDL	REG LIMIT	Units
106-93-4	1,2-Dibromoethane	ND	0.010		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20702010207	MW-7R	Water	01/30/2007 12:30	02/01/2007 09:10

8260B, Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/06/2007 03:17	ADI	342197

CAS#	Parameter	Result	RDL	REG LIMIT	Units
71-43-2	Benzene	ND	1.00		ug/L
108-88-3	Toluene	ND	1.00		ug/L
100-41-4	Ethylbenzene	ND	1.00		ug/L
1330-20-7	Xylene (total)	ND	3.00		ug/L
91-20-3	Naphthalene	ND	5.00		ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	1.00		ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	43.8	ug/L	88	78 - 130
1868-53-7	Dibromofluoromethane	50	45.6	ug/L	91	77 - 127
2037-26-5	Toluene d8	50	49.1	ug/L	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	47.1	ug/L	94	71 - 127

8011, EDB & DBCP

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
02/01/2007 11:00	341992	8011	1	02/01/2007 21:00	WAS	342052

CAS#	Parameter	Result	RDL	REG LIMIT	Units
106-93-4	1,2-Dibromoethane	ND	0.010		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20702010208	MW-8	Water	01/30/2007 12:20	02/01/2007 09:10

8260B, Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/06/2007 03:39	ADI	342197

CAS#	Parameter	Result	RDL	REG LIMIT	Units
71-43-2	Benzene	1.38	1.00		ug/L
108-88-3	Toluene	ND	1.00		ug/L
100-41-4	Ethylbenzene	ND	1.00		ug/L
1330-20-7	Xylene (total)	ND	3.00		ug/L
91-20-3	Naphthalene	ND	5.00		ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	1.00		ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	44.3	ug/L	89	78 - 130
1868-53-7	Dibromofluoromethane	50	47.5	ug/L	95	77 - 127
2037-26-5	Toluene d8	50	48.4	ug/L	97	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	47.6	ug/L	95	71 - 127

8011, EDB & DBCP

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
02/01/2007 11:00	341992	8011	1	02/01/2007 21:40	WAS	342052

CAS#	Parameter	Result	RDL	REG LIMIT	Units
106-93-4	1,2-Dibromoethane	ND	0.010		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20702010209	MW-9	Water	01/30/2007 11:30	02/01/2007 09:10

8260B, Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/06/2007 04:01	ADI	342197

CAS#	Parameter	Result	RDL	REG LIMIT	Units
71-43-2	Benzene	ND	1.00		ug/L
108-88-3	Toluene	ND	1.00		ug/L
100-41-4	Ethylbenzene	ND	1.00		ug/L
1330-20-7	Xylene (total)	ND	3.00		ug/L
91-20-3	Naphthalene	ND	5.00		ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	1.00		ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	43.7	ug/L	87	78 - 130
1868-53-7	Dibromofluoromethane	50	47.9	ug/L	96	77 - 127
2037-26-5	Toluene d8	50	49	ug/L	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	47.8	ug/L	96	71 - 127

8011, EDB & DBCP

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
02/01/2007 11:00	341992	8011	1	02/01/2007 22:00	WAS	342052

CAS#	Parameter	Result	RDL	REG LIMIT	Units
106-93-4	1,2-Dibromoethane	ND	0.010		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20702010210	T-1	Water	01/30/2007 14:00	02/01/2007 09:10

8260B, Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/06/2007 04:23	ADI	342197

CAS#	Parameter	Result	RDL	REG LIMIT	Units
71-43-2	Benzene	ND	1.00		ug/L
108-88-3	Toluene	ND	1.00		ug/L
100-41-4	Ethylbenzene	ND	1.00		ug/L
1330-20-7	Xylene (total)	ND	3.00		ug/L
91-20-3	Naphthalene	ND	5.00		ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	1.00		ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
480-00-4	4-Bromofluorobenzene	50	43.5	ug/L	87	78 - 130
1868-53-7	Dibromofluoromethane	50	44.5	ug/L	89	77 - 127
2037-26-5	Toluene d8	50	48.5	ug/L	97	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	47.5	ug/L	95	71 - 127

8011, EDB & DBCP

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
02/01/2007 11:00	341992	8011	1	02/01/2007 22:20	WAS	342052

CAS#	Parameter	Result	RDL	REG LIMIT	Units
106-93-4	1,2-Dibromoethane	ND	0.010		ug/L

GC/MS Volatiles Quality Control Summary

Analytical Batch 342197 Prep Batch N/A		Client ID GCAL ID Sample Type Analytical Date Matrix		MB342197 453755 Method Blank 02/06/2007 00:18 Water		LCS342197 453756 LCS 02/05/2007 23:12 Water			LCSD342197 453757 LCSD 02/05/2007 23:34 Water						
8260B, Volatiles				Units ug/L		Spike Added	Result	Result	% R	Control Limit	% R	Result	% R	RPD	RPD Limit
107-06-2		1,2-Dichloroethane		ND	1.00	25.0	27.0	108	75 - 122	22.9	92	16	30		
100-41-4		Ethylbenzene		ND	1.00	25.0	25.0	100	80 - 125	21.0	84	17	30		
1634-04-4		tert-Butyl methyl ether (MTBE)		ND	1.00	25.0	25.1	100	72 - 127	21.2	85	17	30		
1330-20-7		Xylene (total)		ND	3.00	75.0	78.5	105	80 - 129	66.4	89	17	30		
91-20-3		Naphthalene		ND	5.00	25.0	28.9	116	67 - 149	23.2	93	22	30		
71-43-2		Benzene		ND	1.00	25.0	26.1	104	80 - 120	22.1	88	17*	11		
108-88-3		Toluene		ND	1.00	25.0	25.2	101	80 - 124	21.8	87	14*	13		
Surrogate															
460-00-4		4-Bromofluorobenzene		43.2	86	50	46.3	93	78 - 130	46.2	92				
1868-53-7		Dibromofluoromethane		48.9	98	50	43.9	88	77 - 127	43.3	87				
2037-26-5		Toluene d8		49.1	98	50	48.5	97	76 - 134	47.8	96				
17060-07-0		1,2-Dichloroethane-d4		46.5	93	50	46.6	93	71 - 127	45.8	92				

Analytical Batch 342236 Prep Batch N/A		Client ID GCAL ID Sample Type Analytical Date Matrix		MB342236 453976 Method Blank 02/06/2007 11:38 Water		LCS342236 453977 LCS 02/06/2007 10:30 Water			LCSD342236 453978 LCSD 02/06/2007 10:53 Water						
8260B, Volatiles				Units ug/L		Spike Added	Result	Result	% R	Control Limit	% R	Result	% R	RPD	RPD Limit
107-06-2		1,2-Dichloroethane		1.51 1.00		25.0	25.7	103	75 - 122	25.3	101	2	30		
100-41-4		Ethylbenzene		ND 1.00		25.0	27.8	111	80 - 125	26.9	108	3	30		
1634-04-4		tert-Butyl methyl ether (MTBE)		ND 1.00		25.0	23.4	94	72 - 127	23.9	96	2	30		
1330-20-7		Xylene (total)		ND 3.00		75.0	84.5	113	80 - 129	82.2	110	3	30		
91-20-3		Naphthalene		ND 5.00		25.0	33.7	135	67 - 149	31.0	124	8	30		
71-43-2		Benzene		ND 1.00		25.0	24.5	98	80 - 120	23.6	94	4	11		
108-88-3		Toluene		ND 1.00		25.0	27.3	109	80 - 124	26.5	106	3	13		
Surrogate															
460-00-4		4-Bromofluorobenzene		43.2 86		50	47.1	94	78 - 130	47.3	95				
1868-53-7		Dibromofluoromethane		45.5 91		50	44.5	89	77 - 127	45.6	91				
2037-26-5		Toluene d8		46.1 92		50	47.4	95	76 - 134	48.9	98				
17060-07-0		1,2-Dichloroethane-d4		41.3 83		50	41.5	83	71 - 127	41.6	83				

GC/MS Volatiles Quality Control Summary

Analytical Batch 342236 Prep Batch N/A		Client ID GCAL ID Sample Type Analytical Date Matrix	00M014-80 20701313505 SAMPLE 02/06/2007 13:41 Water	00M014-80 (MS) 20701313515 MS 02/06/2007 15:12 Water			00M014-80 (MSD) 20701313516 MSD 02/06/2007 15:35 Water				
8260B, Volatiles		Units	ug/L	Spike Added	Result Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
107-06-2	1,2-Dichloroethane	0.00	1.00	25.0	26.3	105	75 - 122	24.4	98	7	30
100-41-4	Ethylbenzene	0.00	1.00	25.0	25.5	102	80 - 125	25.4	102	0.4	30
1330-20-7	Xylene (total)	0.00	3.00	75.0	77.1	103	80 - 129	77.0	103	0.1	30
71-43-2	Benzene	0.00	1.00	25.0	23.9	96	80 - 120	22.6	90	6	30
108-88-3	Toluene	0.00	1.00	25.0	25.1	100	80 - 124	25.0	100	0.4	30
Surrogate											
460-00-4	4-Bromofluorobenzene			50	43.3	87	78 - 130	46.1	92		
1868-53-7	Dibromofluoromethane			50	45.6	91	77 - 127	44.2	88		
2037-26-5	Toluene d8			50	45.1	90	76 - 134	47.5	95		
17060-07-0	1,2-Dichloroethane-d4			50	42.8	86	71 - 127	40.7	81		

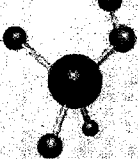
General Chromatography Quality Control Summary

Analytical Batch 342052 Prep Batch 341992 Prep Method 8011		Client ID GCAL ID Sample Type Prep Date Analytical Date Matrix	MB341992 452850 Method Blank 02/01/2007 11:00 02/01/2007 17:57 Water	LCS341992 452851 LCS 02/01/2007 11:00 02/01/2007 18:18 Water			LCSD341992 452852 LCSD 02/01/2007 11:00 02/01/2007 18:38 Water				
8011, EDB & DBCP			Units ug/L	Spike Added	Result Result	% R	Control Limit % R	Result	% R	RPD	RPD Limit
106-93-4	1,2-Dibromoethane		ND 0.010	1.04	1.17	112	62 - 140	1.26	122	7	40

Access Analytical - Chain of Custody Record

Laboratory ID:

Access Analytical 14565/2070220102/12-06-07

Project Submission #		Company Name: KIM Environmental		Preservative (*See codes below)																* Preservative Codes (place corresponding # in black above analysis field): 0=None, 1=HCL, 2=HNO3, 3=H2SO4, 4=NaOH, 5=Na2SO4, 6=NaHSO4, Other=Specify  ACCESS ANALYTICAL, INC. Phone: (803) 781-4243 Fax: 781-4303 7478 Carlisle Street Jmno, SC 29063 Toll Free (888) 315-4243 www.accessanalyticalinc.com	
Report To: Mark Keller		Address: P.O. Box 2704		City: Grosecreek		State: SC		Zip: 29445		Phone: 843 870 4285		Fax: 843 797-1893		Email: AKeller131@comcast.net		Project Name: Petroleum Products		Sampled By (print): Joan Beets			
Sample Label	Date Collected	Time Collected	Memo	# of Cont	REQUESTED LAB ANALYSIS										Relinquished By	Date	Time	Received By			
MW-1	1-30-07	14:20	GW	4	RTX, Wap, MTRF										Joan Beets	1-31-07	1200	R Beets			
MW-2	1-30-07	12:00	GW	4											R Beets	1/31/07	1530	Fed Ex			
MW-3	1-30-07	11:50	GW	4											Fed Ex	2-1-07	0900	R Beets			
MW-4	1-30-07	12:50	GW	4																	
MW-5	1-30-07	12:40	GW	4																	
MW-6	1-30-07	11:40	GW	4																	
MW-7A	1-30-07	12:30	GW	4																	
MW-8	1-30-07	12:20	GW	4																	
MW-9	1-30-07	11:30	GW	4																	
T-1	1-30-07	14:00	GW	4																	
Turnaround Time:		Samples Recd on Ice?		Project Location:																	
<input checked="" type="checkbox"/> Std. (5-7 Bus. days) <input checked="" type="checkbox"/> RUSH* *Date Required: (For rush work, results faxed by end of business day on date required)		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> SC <input type="checkbox"/> NC Other _____ (specify)																	

Original Copy - Returned w/Report
Yellow Copy - Access File Copy
Pink Copy - Client Copy

Access Analytical, Inc.
See Reverse for Terms and Conditions

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) <u>01/30/07</u> Field Personnel <u>J.B.</u> General Weather Condition <u>sunny</u> Ambient Air Temperature <u>45</u> °F Facility Name <u>Petroleum Products</u> Site ID# <u>04784</u> <p style="text-align: center;"><u>Quality Assurance:</u></p> <table style="width: 100%;"> <tr> <td style="width: 50%;">pH Meter <u>Horiba</u></td> <td style="width: 50%;">Conductivity Meter: <u>Horiba</u></td> </tr> <tr> <td>serial no. _____</td> <td>serial no. _____</td> </tr> <tr> <td>pH=4.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> <tr> <td>pH=7.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> <tr> <td>pH=10.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> </table> <p style="text-align: center;"><u>Chain of Custody</u></p> <table style="width: 100%;"> <tr> <td style="width: 25%;">Relinquished by</td> <td style="width: 25%;">Date/Time</td> <td style="width: 25%;">Received by</td> <td style="width: 25%;">Date/Time</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>				pH Meter <u>Horiba</u>	Conductivity Meter: <u>Horiba</u>	serial no. _____	serial no. _____	pH=4.0 <u>Internal</u>	Standard <u>Internal</u>	pH=7.0 <u>Internal</u>	Standard <u>Internal</u>	pH=10.0 <u>Internal</u>	Standard <u>Internal</u>	Relinquished by	Date/Time	Received by	Date/Time					Well # <u>MW-1</u> Well Diameter(D) <u>2"</u> Inches or _____ feet conversion factor(C): $3.143 \cdot (D/2)^2$ for a 2 inch well C=0.163 4 inch well C=0.652 Total Well Depth (TWD) <u>25</u> ft. Depth to GW (DWG) <u>4.87</u> ft. Length of Water Column (LWC=TWD-DGW) <u>20.13</u> ft. 1 Csg. Volume (LWC*C)= _____ x _____ = <u>3.2</u> gals. 3 Csg. Volumes = 3 x _____ = <u>9.6</u> gals. (Std. Purge Volume) Total Volume of Water Purged Before Sampling _____ gals.				
pH Meter <u>Horiba</u>	Conductivity Meter: <u>Horiba</u>																									
serial no. _____	serial no. _____																									
pH=4.0 <u>Internal</u>	Standard <u>Internal</u>																									
pH=7.0 <u>Internal</u>	Standard <u>Internal</u>																									
pH=10.0 <u>Internal</u>	Standard <u>Internal</u>																									
Relinquished by	Date/Time	Received by	Date/Time																							

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	<u>3.2</u>	<u>6.4</u>	<u>9.6</u>					
Time (military)	<u>14:10</u>	<u>14:15</u>	<u>14:20</u>					
pH (s.u.)	<u>6.24</u>	<u>6.18</u>	<u>6.14</u>					
Specific Cond. (mS/cm)	<u>.085</u>	<u>.089</u>	<u>.107</u>					
Water Temp (°C)	<u>18.0</u>	<u>19.5</u>	<u>19.9</u>					
Turbidity (°)	<u>221</u>	<u>0</u>	<u>0</u>					
OVA Readings	<u>✓</u>	<u>✓</u>	<u>✓</u>					
Salinity	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>					
Dissolved Oxygen	<u>1.71</u>	<u>2.15</u>	<u>2.96</u>					

Remarks: sample time 14:20

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) <u>01/30/07</u> Field Personnel <u>J.B.</u> General Weather Condition <u>sunny</u> Ambient Air Temperature <u>42</u> °F Facility Name <u>Petroleum Products</u> Site ID# <u>04784</u> <p style="text-align: center;"><u>Quality Assurance:</u></p> <table style="width: 100%;"> <tr> <td>pH Meter <u>Horiba</u></td> <td>Conductivity Meter: <u>Horiba</u></td> </tr> <tr> <td>serial no. _____</td> <td>serial no. _____</td> </tr> <tr> <td>pH=4.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> <tr> <td>pH=7.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> <tr> <td>pH=10.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> </table> <p style="text-align: center;"><u>Chain of Custody</u></p> <table style="width: 100%;"> <tr> <td>Relinquished by</td> <td>Date/Time</td> <td>Received by</td> <td>Date/Time</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>				pH Meter <u>Horiba</u>	Conductivity Meter: <u>Horiba</u>	serial no. _____	serial no. _____	pH=4.0 <u>Internal</u>	Standard <u>Internal</u>	pH=7.0 <u>Internal</u>	Standard <u>Internal</u>	pH=10.0 <u>Internal</u>	Standard <u>Internal</u>	Relinquished by	Date/Time	Received by	Date/Time					Well # <u>MW- 2</u> Well Diameter(D) <u>2"</u> Inches or _____ feet conversion factor(C): $3.143 \times (D/2)^2$ for a 2 inch well C=0.163 4 inch well C=0.652 Total Well Depth (TWD) <u>18</u> ft. Depth to GW (DWG) <u>5.82</u> ft. Length of Water Column (LWC=TWD-DGW) _____ ft. 1 Csg. Volume (LWC*C)= _____ x _____ = _____ gals. 3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume) Total Volume of Water Purged Before Sampling _____ gals.				
pH Meter <u>Horiba</u>	Conductivity Meter: <u>Horiba</u>																									
serial no. _____	serial no. _____																									
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pH=10.0 <u>Internal</u>	Standard <u>Internal</u>																									
Relinquished by	Date/Time	Received by	Date/Time																							

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	<u>—</u>							
Time (military)	<u>12:00</u>							
pH (s.u.)	<u>4.16</u>							
Specific Cond. (mS/cm)	<u>0.025</u>							
Water Temp (°C)	<u>15.2</u>							
Turbidity (°)	<u>0</u>							
OVA Readings	<u>—</u>							
Salinity	<u>0.00</u>							
Dissolved Oxygen	<u>7.93</u>							

Remarks:

*No purge missing Bolts
s.t. 12:00*

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) <u>01/30/07</u> Field Personnel <u>J.B.</u> General Weather Condition <u>Sunny</u> Ambient Air Temperature <u>42</u> °F Facility Name <u>Petroleum Products</u> Site ID# <u>04784</u> <p style="text-align: center;"><u>Quality Assurance:</u></p> <table style="width: 100%;"> <tr> <td>pH Meter <u>Horiba</u></td> <td>Conductivity Meter: <u>Horiba</u></td> </tr> <tr> <td>serial no. _____</td> <td>serial no. _____</td> </tr> <tr> <td>pH=4.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> <tr> <td>pH=7.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> <tr> <td>pH=10.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> </table> <p style="text-align: center;"><u>Chain of Custody</u></p> <table style="width: 100%;"> <tr> <td>Relinquished by</td> <td>Date/Time</td> <td>Received by</td> <td>Date/Time</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>				pH Meter <u>Horiba</u>	Conductivity Meter: <u>Horiba</u>	serial no. _____	serial no. _____	pH=4.0 <u>Internal</u>	Standard <u>Internal</u>	pH=7.0 <u>Internal</u>	Standard <u>Internal</u>	pH=10.0 <u>Internal</u>	Standard <u>Internal</u>	Relinquished by	Date/Time	Received by	Date/Time					Well # <u>MW- 3</u> Well Diameter(D) <u>2"</u> Inches or _____ feet conversion factor(C): $3.143 \cdot (D/2)^2$ for a 2 inch well C=0.163 4 inch well C=0.652 Total Well Depth (TWD) <u>18'</u> ft. Depth to GW (DWG) <u>3.87</u> ft. Length of Water Column (LWC=TWD-DGW) _____ ft. 1 Csg. Volume (LWC*C)= _____ x _____ = _____ gals. 3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume) Total Volume of Water Purged Before Sampling _____ gals.				
pH Meter <u>Horiba</u>	Conductivity Meter: <u>Horiba</u>																									
serial no. _____	serial no. _____																									
pH=4.0 <u>Internal</u>	Standard <u>Internal</u>																									
pH=7.0 <u>Internal</u>	Standard <u>Internal</u>																									
pH=10.0 <u>Internal</u>	Standard <u>Internal</u>																									
Relinquished by	Date/Time	Received by	Date/Time																							

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	<u>11:50</u>							
pH (s.u.)	<u>4.40</u>							
Specific Cond. (mS/cm)	<u>0.59</u>							
Water Temp (°C)	<u>14.2</u>							
Turbidity (°)	<u>0</u>							
OVA Readings								
Salinity	<u>0.00</u>							
Dissolved Oxygen	<u>5.54</u>							

Remarks:

No purge
sat. 11:50

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) <u>01/30/07</u> Field Personnel <u>J.B.</u> General Weather Condition <u>sunny</u> Ambient Air Temperature <u>42</u> °F Facility Name <u>Petroleum Products</u> Site ID# <u>04784</u> <p style="text-align: center;"><u>Quality Assurance:</u></p> <table style="width: 100%;"> <tr> <td>pH Meter <u>Horiba</u></td> <td>Conductivity Meter: <u>Horiba</u></td> </tr> <tr> <td>serial no. _____</td> <td>serial no. _____</td> </tr> <tr> <td>pH=4.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> <tr> <td>pH=7.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> <tr> <td>pH=10.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> </table> <p style="text-align: center;"><u>Chain of Custody</u></p> <table style="width: 100%;"> <tr> <td>Relinquished by</td> <td>Date/Time</td> <td>Received by</td> <td>Date/Time</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>				pH Meter <u>Horiba</u>	Conductivity Meter: <u>Horiba</u>	serial no. _____	serial no. _____	pH=4.0 <u>Internal</u>	Standard <u>Internal</u>	pH=7.0 <u>Internal</u>	Standard <u>Internal</u>	pH=10.0 <u>Internal</u>	Standard <u>Internal</u>	Relinquished by	Date/Time	Received by	Date/Time					Well # <u>MW- 4</u> Well Diameter(D) <u>2"</u> Inches or _____ feet conversion factor(C): $3.143 \times (D/2)^2$ for a 2 inch well C=0.163 4 inch well C=0.652 Total Well Depth (TWD) <u>18'</u> ft. Depth to GW (DWG) <u>1.67</u> ft. Length of Water Column (LWC=TWD-DGW) <u>16.33</u> ft. 1 Csg. Volume (LWC*C)= _____ x _____ = <u>2.66</u> gals. 3 Csg. Volumes = 3 x _____ = <u>8</u> gals. (Std. Purge Volume) Total Volume of Water Purged Before Sampling _____ gals.			
pH Meter <u>Horiba</u>	Conductivity Meter: <u>Horiba</u>																								
serial no. _____	serial no. _____																								
pH=4.0 <u>Internal</u>	Standard <u>Internal</u>																								
pH=7.0 <u>Internal</u>	Standard <u>Internal</u>																								
pH=10.0 <u>Internal</u>	Standard <u>Internal</u>																								
Relinquished by	Date/Time	Received by	Date/Time																						

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	<u>2.7</u>	<u>5.3</u>	<u>8</u>					
Time (military)	<u>12:50</u>	<u>12:50</u>						
pH (s.u.)	<u>5.77</u>	<u>6.09</u>						
Specific Cond. (mS/cm)	<u>251</u>	<u>237</u>						
Water Temp (°C)	<u>14.7</u>	<u>13.9</u>						
Turbidity (*)	<u>999</u>	<u>570</u>						
OVA Readings	<u>—</u>	<u>—</u>						
Salinity	<u>0.00</u>	<u>0.00</u>						
Dissolved Oxygen	<u>2.20</u>	<u>2.84</u>						

Remarks:

sample time 12:50
~~purge~~ Dry at 5.5

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) <u>01/30/07</u> Field Personnel <u>J.B.</u> General Weather Condition <u>Sunny</u> Ambient Air Temperature <u>43</u> °F Facility Name <u>Petroleum Products</u> Site ID# <u>04784</u> <p style="text-align: center;"><u>Quality Assurance:</u></p> <table style="width: 100%;"> <tr> <td>pH Meter <u>Horiba</u></td> <td>Conductivity Meter: <u>Horiba</u></td> </tr> <tr> <td>serial no. _____</td> <td>serial no. _____</td> </tr> <tr> <td>pH=4.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> <tr> <td>pH=7.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> <tr> <td>pH=10.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> </table> <p style="text-align: center;"><u>Chain of Custody</u></p> <table style="width: 100%;"> <tr> <td>Relinquished by</td> <td>Date/Time</td> <td>Received by</td> <td>Date/Time</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>				pH Meter <u>Horiba</u>	Conductivity Meter: <u>Horiba</u>	serial no. _____	serial no. _____	pH=4.0 <u>Internal</u>	Standard <u>Internal</u>	pH=7.0 <u>Internal</u>	Standard <u>Internal</u>	pH=10.0 <u>Internal</u>	Standard <u>Internal</u>	Relinquished by	Date/Time	Received by	Date/Time					Well # <u>MW- 5</u> Well Diameter(D) _____ Inches or _____ feet conversion factor(C): $3.143 \times (D/2)^2$ for a 2 inch well C=0.163 4 inch well C=0.652 Total Well Depth (TWD) <u>18</u> ft. Depth to GW (DWG) <u>4.17</u> ft. Length of Water Column (LWC=TWD-DGW) _____ ft. 1 Csg. Volume (LWC*C)= _____ x _____ = _____ gals. 3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume) Total Volume of Water Purged Before Sampling _____ gals.				
pH Meter <u>Horiba</u>	Conductivity Meter: <u>Horiba</u>																									
serial no. _____	serial no. _____																									
pH=4.0 <u>Internal</u>	Standard <u>Internal</u>																									
pH=7.0 <u>Internal</u>	Standard <u>Internal</u>																									
pH=10.0 <u>Internal</u>	Standard <u>Internal</u>																									
Relinquished by	Date/Time	Received by	Date/Time																							

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	<u>—</u>							
Time (military)	<u>12:40</u>							
pH (s.u.)	<u>5.26</u>							
Specific Cond. (mS/cm)	<u>0.028</u>							
Water Temp (°C)	<u>15.1</u>							
Turbidity (°)	<u>0</u>							
OVA Readings	<u>—</u>							
Salinity	<u>0.00</u>							
Dissolved Oxygen	<u>4.32</u>							

Remarks:

sample time 12:40
No purge

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) <u>01/30/07</u> Field Personnel <u>J.B.</u> General Weather Condition <u>Sunny</u> Ambient Air Temperature <u>42</u> °F Facility Name <u>Petroleum Products</u> Site ID# <u>04784</u> <p style="text-align: center;"><u>Quality Assurance:</u></p> <table style="width: 100%;"> <tr> <td>pH Meter <u>Horiba</u></td> <td>Conductivity Meter: <u>Horiba</u></td> </tr> <tr> <td>serial no. _____</td> <td>serial no. _____</td> </tr> <tr> <td>pH=4.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> <tr> <td>pH=7.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> <tr> <td>pH=10.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> </table> <p style="text-align: center;"><u>Chain of Custody</u></p> <table style="width: 100%;"> <tr> <td>Relinquished by _____</td> <td>Date/Time _____</td> <td>Received by _____</td> <td>Date/Time _____</td> </tr> </table>				pH Meter <u>Horiba</u>	Conductivity Meter: <u>Horiba</u>	serial no. _____	serial no. _____	pH=4.0 <u>Internal</u>	Standard <u>Internal</u>	pH=7.0 <u>Internal</u>	Standard <u>Internal</u>	pH=10.0 <u>Internal</u>	Standard <u>Internal</u>	Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____	Well # <u>MW- 6</u> Well Diameter(D) <u>2"</u> Inches or _____ feet conversion factor(C): $3.143 \times (D/2)^2$ for a 2 inch well C=0.163 4 inch well C=0.652 Total Well Depth (TWD) <u>18'</u> ft. Depth to GW (DWG) <u>4.93</u> ft. Length of Water Column (LWC=TWD-DGW) _____ ft. 1 Csg. Volume (LWC*C)= _____ x _____ = _____ gals. 3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume) Total Volume of Water Purged Before Sampling _____ gals.				
pH Meter <u>Horiba</u>	Conductivity Meter: <u>Horiba</u>																					
serial no. _____	serial no. _____																					
pH=4.0 <u>Internal</u>	Standard <u>Internal</u>																					
pH=7.0 <u>Internal</u>	Standard <u>Internal</u>																					
pH=10.0 <u>Internal</u>	Standard <u>Internal</u>																					
Relinquished by _____	Date/Time _____	Received by _____	Date/Time _____																			

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	<u>—</u>							
Time (military)	<u>11:40</u>							
pH (s.u.)	<u>4.47</u>							
Specific Cond. (mS/cm)	<u>0.13</u>							
Water Temp (°C)	<u>14.8</u>							
Turbidity (*)	<u>0</u>							
OVA Readings	<u>—</u>							
Salinity	<u>0.00</u>							
Dissolved Oxygen	<u>5.24</u>							

Remarks:

*No purge
s.t. 11:40*

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) <u>01/30/07</u> Field Personnel <u>J.B.</u> General Weather Condition <u>Sunny</u> Ambient Air Temperature <u>43</u> °F Facility Name <u>Petroleum Products</u> Site ID# <u>04784</u> <p style="text-align: center;"><u>Quality Assurance:</u></p> <table style="width: 100%;"> <tr> <td>pH Meter <u>Horiba</u></td> <td>Conductivity Meter: <u>Horiba</u></td> </tr> <tr> <td>serial no. _____</td> <td>serial no. _____</td> </tr> <tr> <td>pH=4.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> <tr> <td>pH=7.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> <tr> <td>pH=10.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> </table> <p style="text-align: center;"><u>Chain of Custody</u></p> <table style="width: 100%;"> <tr> <td>Relinquished by</td> <td>Date/Time</td> <td>Received by</td> <td>Date/Time</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>				pH Meter <u>Horiba</u>	Conductivity Meter: <u>Horiba</u>	serial no. _____	serial no. _____	pH=4.0 <u>Internal</u>	Standard <u>Internal</u>	pH=7.0 <u>Internal</u>	Standard <u>Internal</u>	pH=10.0 <u>Internal</u>	Standard <u>Internal</u>	Relinquished by	Date/Time	Received by	Date/Time					Well # <u>MW- 7R</u> Well Diameter(D) <u>2"</u> Inches or _____ feet conversion factor(C): $3.143 \times (D/2)^2$ for a 2 inch well C=0.163 4 inch well C=0.652 Total Well Depth (TWD) <u>17</u> ft. Depth to GW (DWG) <u>2.64</u> ft. Length of Water Column (LWC=TWD-DGW) _____ ft. 1 Csg. Volume (LWC*C)= _____ x _____ = _____ gals. 3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume) Total Volume of Water Purged Before Sampling _____ gals.				
pH Meter <u>Horiba</u>	Conductivity Meter: <u>Horiba</u>																									
serial no. _____	serial no. _____																									
pH=4.0 <u>Internal</u>	Standard <u>Internal</u>																									
pH=7.0 <u>Internal</u>	Standard <u>Internal</u>																									
pH=10.0 <u>Internal</u>	Standard <u>Internal</u>																									
Relinquished by	Date/Time	Received by	Date/Time																							

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	—							
Time (military)	12:30							
pH (s.u.)	6.04							
Specific Cond. (mS/cm)	072							
Water Temp (°C)	11.5							
Turbidity (*)	222							
OVA Readings	—							
Salinity	0.00							
Dissolved Oxygen	4.41							

Remarks:

sample time 1230
No purge

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
Field Data Information Sheet for Ground Water Sampling

<p>Date (mm/dd/yy) <u>01/30/07</u></p> <p>Field Personnel <u>J.B.</u></p> <p>General Weather Condition _____</p> <p>Ambient Air Temperature _____ °F</p> <p>Facility Name <u>Petroleum Products</u> Site ID# <u>04784</u></p> <p style="text-align: center;"><u>Quality Assurance:</u></p> <table style="width: 100%;"> <tr> <td>pH Meter <u>Horiba</u></td> <td>Conductivity Meter: <u>Horiba</u></td> </tr> <tr> <td>serial no. _____</td> <td>serial no. _____</td> </tr> <tr> <td>pH=4.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> <tr> <td>pH=7.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> <tr> <td>pH=10.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> </table> <p style="text-align: center;"><u>Chain of Custody</u></p> <table style="width: 100%;"> <tr> <td>Relinquished by</td> <td>Date/Time</td> <td>Received by</td> <td>Date/Time</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	pH Meter <u>Horiba</u>	Conductivity Meter: <u>Horiba</u>	serial no. _____	serial no. _____	pH=4.0 <u>Internal</u>	Standard <u>Internal</u>	pH=7.0 <u>Internal</u>	Standard <u>Internal</u>	pH=10.0 <u>Internal</u>	Standard <u>Internal</u>	Relinquished by	Date/Time	Received by	Date/Time					<p>Well # <u>MW- 8</u></p> <p>Well Diameter(D) <u>2"</u> Inches or _____ feet</p> <p>conversion factor(C): $3.143 \times (D/2)^2$</p> <p>for a 2 inch well C=0.163</p> <p>4 inch well C=0.652</p> <p>Total Well Depth (TWD) <u>18</u> ft.</p> <p>Depth to GW (DWG) <u>4.73</u> ft.</p> <p>Length of Water Column (LWC=TWD-DGW) _____ ft.</p> <p>1 Csg. Volume (LWC*C)= _____ x _____ = _____ gals.</p> <p>3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)</p> <p>Total Volume of Water Purged Before Sampling _____ gals.</p>
pH Meter <u>Horiba</u>	Conductivity Meter: <u>Horiba</u>																		
serial no. _____	serial no. _____																		
pH=4.0 <u>Internal</u>	Standard <u>Internal</u>																		
pH=7.0 <u>Internal</u>	Standard <u>Internal</u>																		
pH=10.0 <u>Internal</u>	Standard <u>Internal</u>																		
Relinquished by	Date/Time	Received by	Date/Time																

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	<u> </u>							
Time (military)	<u>12:20</u>							
pH (s.u.)	<u>5.78</u>							
Specific Cond. (mS/cm)	<u>.055</u>							
Water Temp (°C)	<u>14.7</u>							
Turbidity (*)	<u>0</u>							
OVA Readings	<u> </u>							
Salinity	<u>0.00</u>							
Dissolved Oxygen	<u>1.37</u>							

Remarks:

sample time 12:20
No purge

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) <u>01/30/07</u> Field Personnel <u>J.B.</u> General Weather Condition <u>Sunny</u> Ambient Air Temperature <u>42</u> °F Facility Name <u>Petroleum Products</u> Site ID# <u>04784</u> <p style="text-align: center;"><u>Quality Assurance:</u></p> <table style="width: 100%;"> <tr> <td>pH Meter <u>Horiba</u></td> <td>Conductivity Meter: <u>Horiba</u></td> </tr> <tr> <td>serial no. _____</td> <td>serial no. _____</td> </tr> <tr> <td>pH=4.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> <tr> <td>pH=7.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> <tr> <td>pH=10.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> </table> <p style="text-align: center;"><u>Chain of Custody</u></p> <table style="width: 100%;"> <tr> <td>Relinquished by</td> <td>Date/Time</td> <td>Received by</td> <td>Date/Time</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>				pH Meter <u>Horiba</u>	Conductivity Meter: <u>Horiba</u>	serial no. _____	serial no. _____	pH=4.0 <u>Internal</u>	Standard <u>Internal</u>	pH=7.0 <u>Internal</u>	Standard <u>Internal</u>	pH=10.0 <u>Internal</u>	Standard <u>Internal</u>	Relinquished by	Date/Time	Received by	Date/Time					Well # <u>MW- 9</u> Well Diameter(D) <u>2'</u> Inches or _____ feet conversion factor(C): $3.143 \cdot (D/2)^2$ for a 2 inch well C=0.163 4 inch well C=0.652 Total Well Depth (TWD) <u>18'</u> ft. Depth to GW (DWG) <u>5.06</u> ft. Length of Water Column (LWC=TWD-DGW) _____ ft. 1 Csg. Volume (LWC*C)= _____ x _____ = _____ gals. 3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume) Total Volume of Water Purged Before Sampling _____ gals.				
pH Meter <u>Horiba</u>	Conductivity Meter: <u>Horiba</u>																									
serial no. _____	serial no. _____																									
pH=4.0 <u>Internal</u>	Standard <u>Internal</u>																									
pH=7.0 <u>Internal</u>	Standard <u>Internal</u>																									
pH=10.0 <u>Internal</u>	Standard <u>Internal</u>																									
Relinquished by	Date/Time	Received by	Date/Time																							

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	<u>—</u>							
Time (military)	<u>11:30</u>							
pH (s.u.)	<u>3.65</u>							
Specific Cond. (mS/cm)	<u>.061</u>							
Water Temp (°C)	<u>16.3</u>							
Turbidity (*)	<u>0</u>							
OVA Readings	<u>—</u>							
Salinity	<u>0.00</u>							
Dissolved Oxygen	<u>6.23</u>							

Remarks:

No purge
st. 11:30

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) <u>01/30/07</u> Field Personnel <u>J.B.</u> General Weather Condition <u>sunny</u> Ambient Air Temperature <u>43</u> °F Facility Name <u>Petroleum Products</u> Site ID# <u>04784</u> <p style="text-align: center;"><u>Quality Assurance:</u></p> <table style="width: 100%;"> <tr> <td style="width: 50%;">pH Meter <u>Horiba</u></td> <td style="width: 50%;">Conductivity Meter: <u>Horiba</u></td> </tr> <tr> <td>serial no. _____</td> <td>serial no. _____</td> </tr> <tr> <td>pH=4.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> <tr> <td>pH=7.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> <tr> <td>pH=10.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> </table> <p style="text-align: center;"><u>Chain of Custody</u></p> <table style="width: 100%;"> <tr> <td style="width: 25%;">Relinquished by</td> <td style="width: 25%;">Date/Time</td> <td style="width: 25%;">Received by</td> <td style="width: 25%;">Date/Time</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>				pH Meter <u>Horiba</u>	Conductivity Meter: <u>Horiba</u>	serial no. _____	serial no. _____	pH=4.0 <u>Internal</u>	Standard <u>Internal</u>	pH=7.0 <u>Internal</u>	Standard <u>Internal</u>	pH=10.0 <u>Internal</u>	Standard <u>Internal</u>	Relinquished by	Date/Time	Received by	Date/Time					Well # <u>444 T-1</u> Well Diameter(D) <u>2"</u> Inches or _____ feet conversion factor(C): $3.143 \times (D/2)^2$ for a 2 inch well C=0.163 4 inch well C=0.652 Total Well Depth (TWD) <u>40</u> ft. Depth to GW (DWG) <u>4.69</u> ft. Length of Water Column (LWC=TWD-DGW) <u>35.31</u> ft. 1 Csg. Volume (LWC*C)= _____ x _____ = <u>5.77</u> gals. 3 Csg. Volumes = 3 x _____ = <u>17.25</u> gals. (Std. Purge Volume) Total Volume of Water Purged Before Sampling _____ gals.				
pH Meter <u>Horiba</u>	Conductivity Meter: <u>Horiba</u>																									
serial no. _____	serial no. _____																									
pH=4.0 <u>Internal</u>	Standard <u>Internal</u>																									
pH=7.0 <u>Internal</u>	Standard <u>Internal</u>																									
pH=10.0 <u>Internal</u>	Standard <u>Internal</u>																									
Relinquished by	Date/Time	Received by	Date/Time																							

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	<u>6</u>	<u>12</u>	<u>18</u>					
Time (military)	<u>13:40</u>	<u>13:50</u>	<u>13:58</u>					
pH (s.u.)	<u>6.62</u>	<u>6.33</u>	<u>6.51</u>					
Specific Cond. (mS/cm)	<u>132</u>	<u>125</u>	<u>125</u>					
Water Temp (°C)	<u>17.5</u>	<u>18.4</u>	<u>17.8</u>					
Turbidity (*)	<u>387</u>	<u>252</u>	<u>26</u>					
OVA Readings	<u>---</u>	<u>---</u>	<u>---</u>					
Salinity	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>					
Dissolved Oxygen	<u>1.77</u>	<u>1.44</u>	<u>2.49</u>					

Remarks:

sample time 14:00

APPENDIX C

Disposal Manifest



Water Recovery

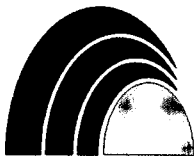
Non-Hazardous Wastewater Manifest		Number: 3324	
1. Generator's EPA ID# (if applicable):		Waste ID Number:	
2. Generator's Name and Mailing Address: KIM Environmental PO Box 2704 Goose Creek SC		Phone () 843 270-4285 PO #:	
3. Agent of Generator and Mailing Address: same		Phone () PO #:	
4. Transporter Company Name:		Phone ()	
Truck & Trailer License Number:			
5. Transporter U.S. EPA ID#:			
6. Facility Name and Site Address: U S Water Recovery 435 Old Mt. Holly Rd. Mt. Holly, SC 29445		Phone: (843) 797-8674 Fax: (843) 797-2126 Mailing Address: U S Water Recovery P O Box 70397 North Charleston, SC 29415 Phone: (843) 744-0118 Fax (843) 744-0730	
7. Facility U.S. EPA ID#:			
Start Level:	End Level:	Total Gallons:	Tank Number
8. U.S. DOT Description		Container No. Type	Unit Quantity
a. Non-Hazardous, non-regulated waste water			
Bob White's El cheapo			65 gal
Petroleum Products			30 gal
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:		Signature:	Date:
10. Transporter Acknowledgement of Receipt of Materials			
Printed/Typed Name: Jason Rader		Signature: Jason Rader	Date: 2-9-07
11. Discrepancy indication space:			
12. Facility Owner or Operator: Certification of Receipt of Materials			
Printed/Typed Name: David Ward		Signature: David Ward	Date: 2-9-07

White - Facility

Yellow - Transporter

Pink - Generator

FEBRUARY 2007 MONITORING REPORT
Petroleum Products
Greenwood, South Carolina
Site ID# 04784



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 9th, 2007

UST PROGRAM
DOCKETING # 3
Tech

Prepared for:

Ms. Sonya Utz
SCDHEC BUSTM
2600 Bull Street
Columbia, SC 29201

Prepared by:

KLM Environmental, LLC
Post Office Box 2704
Goose Creek, SC 29445
(843) 870-4285 / fax: 797-1893

Project# 05087

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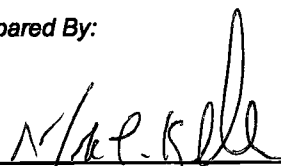
FEB 22 2007

SIGNATURE PAGE

**UNDERGROUND STORAGE
TANK PROGRAM**

This report entitled "**February 2007 MONITORING REPORT**" for **Petroleum Products** 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:



Mark L. Keller, PG
President
KLM Environmental, LLC

2/9/07

Date



TABLE OF CONTENTS

SECTION	DESCRIPTION	PAGE
1.0	INTRODUCTION _____	1
2.0	SITE DESCRIPTION _____	2
3.0	GROUNDWATER QUALITY _____	3
4.0	CONCLUSIONS _____	5
5.0	REFERENCES _____	6

LIST OF FIGURES

DESCRIPTION	FIGURE
GENERAL SITE LOCATION _____	1
SITE MAP _____	2
PIEZOMETRIC MAP _____	3
COC MAP _____	4

LIST OF APPENDICES

DESCRIPTION	APPENDIX
FIGURES _____	A
LABORATORY DATA _____	B
DISPOSAL MANIFEST _____	C

LIST OF TABLES

DESCRIPTION	TABLE
GROUNDWATER ELEVATION DATA _____	1
SUMMARY OF ANALYTICAL DATA _____	2

1.0 INTRODUCTION

The Petroleum Products site is located at 160 Kirksey Drive, Greenwood, South Carolina. A general site location map is provided as Figure 1 in Appendix A. The initial release was reported on December 30th, 1991 and has been undergoing assessment and monitoring activities since that date. This report serves to present results of the sampling conducted at Petroleum Products, at the request of the SCDHEC Project Manager.

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FEB 22 2007

UNDERGROUND STORAGE
TANK PROGRAM

UNDERGROUND STORAGE
TANK PROGRAM**2.0 SITE DESCRIPTION**

Currently, there are 9 shallow wells located at the site along with one telescoping well. Figure 2 serves as a site map showing well locations. The piezometric data is provided in the following table and in Appendix A, Figure 3.

TABLE 1 Groundwater Data (feet) Petroleum Products Greenwood, SC						
Monitoring Well	Date	TOC Elevation	Screened Interval	TOC to FP	TOC to GW	GW Elevation
MW-1	1/30/07	98.11	5-25	--	4.87	93.24
MW-2	1/30/07	100.64	3-18	--	5.82	94.82
MW-3	1/30/07	98.33	3-18	--	3.87	94.46
MW-4	1/30/07	95.57	3-18	--	1.67	93.90
MW-5	1/30/07	95.87	3-18	--	4.17	91.70
MW-6	1/30/07	98.88	3-18	--	4.93	93.95
MW-7R	1/30/07	97.18	2-17	--	2.64	94.54
MW-8	1/30/07	97.74	3-18	--	4.73	93.01
MW-9	1/30/07	98.44	3-18	--	5.06	93.38
T-1	1/30/07	97.92	35-40	--	4.69	93.23

UNK - Unknowns

Depths to fluid measurements were collected relative to the top of casing for each well using a hydrocarbon interface probe capable of detecting and measuring a hydrocarbon product thickness of 0.01 foot or 1/8 inch. Groundwater elevations were then determined by subtracting depth to fluid measurements from the top of casing elevations and a piezometric contour map of the uppermost aquifer surface was developed (Appendix A, Figure 3).

3.0 GROUNDWATER QUALITY

KLM personnel performed the groundwater-sampling event on January 30th, 2007. Results from the last sampling event are included in the table for comparison. Results for all wells sampled are as follows:

TABLE 2 Summary of Analytical Data Petroleum Products Greenwood, SC								
Well #	Date Sampled	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene	EDB
RBSL	--	5	1000	700	10000	40	25	0.05
MW-1	2/3/05	49	11	8	31	7	3	<0.02
	1/30/07	187	63.4	56.2	109	11.5	19.6	<0.01
MW-2	2/3/05	<1	<1	<1	<3	<1	<1	<0.02
	1/30/07	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<0.01
MW-3	2/3/05	<1	<1	<1	<3	<1	<1	<0.02
	1/30/07	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<0.01
MW-4	2/3/05	NS	NS	NS	NS	NS	NS	NS
	1/30/07	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<0.01
MW-5	2/3/05	NS	NS	NS	NS	NS	NS	NS
	1/30/07	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<0.01
MW-6	2/3/05	<1	<1	<1	<3	<1	<1	<0.02
	1/30/07	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<0.01
MW-7R	2/3/05	<1	<1	<1	<3	<1	<1	<0.02
	1/30/07	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<0.01
MW-8	2/3/05	1	<1	<1	1.1E	<1	<1	<0.02
	1/30/07	1.38	<1.0	<1.0	<3.0	<1.0	<5.0	<0.01
MW-9	2/3/05	<1	<1	<1	<3	<1	<1	<0.02
	1/30/07	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<0.01
T-1	2/3/05	<1	<1	<1	<3	<1	<1	<0.02
	1/30/07	<1.0	<1.0	<1.0	<3.0	<1.0	<5.0	<0.01

Note: All results in µg/l. Numbers in bold exceed RBSL.

A minimum of three well volumes were purged from each monitoring well not bracketing the water table prior to sample collection using an electric purge pump. Immediately after well purging was completed, groundwater samples were collected using disposable bottom entry sampling bailers, decanted into sterile glass sample containers provided by the analytical laboratory, and preserved in accordance with United States Environmental Protection Agency (USEPA) sampling protocol. Standard field parameters (pH, specific conductivity, temperature, dissolved oxygen, salinity, and turbidity) were measured and recorded for each sample during well purging or at the time of collection. Following collection in the field, the groundwater samples were submitted to the analytical laboratory and analyzed for Benzene, Toluene, Ethylbenzene, total Xylenes (BTEX), Methyl-tert Butyl Ether (MTBE), Naphthalene, and EDB. A copy of the laboratory data and the

chain-of-custody for the well sampling event is provided in Appendix B. A map with concentration levels for each well is provided as Figure 4 in Appendix A. A disposal manifest for the contaminated purge water is provided in Appendix C.

4.0 CONCLUSIONS

Contaminant levels have remained steady at the site. Monitoring well MW-1 contains Benzene above the RBSLs. These levels are only slightly above the established RBSLs and have only increased slightly over the last two years. KLM recommends calculating the SSTLs for the site and comparing those levels to the current contaminant level in MW-1. The SSTLs should be well above the current contaminant level at the site. After SSTLs are calculated, a No Further Action status should be able to be issued and the monitoring wells permanently abandoned.

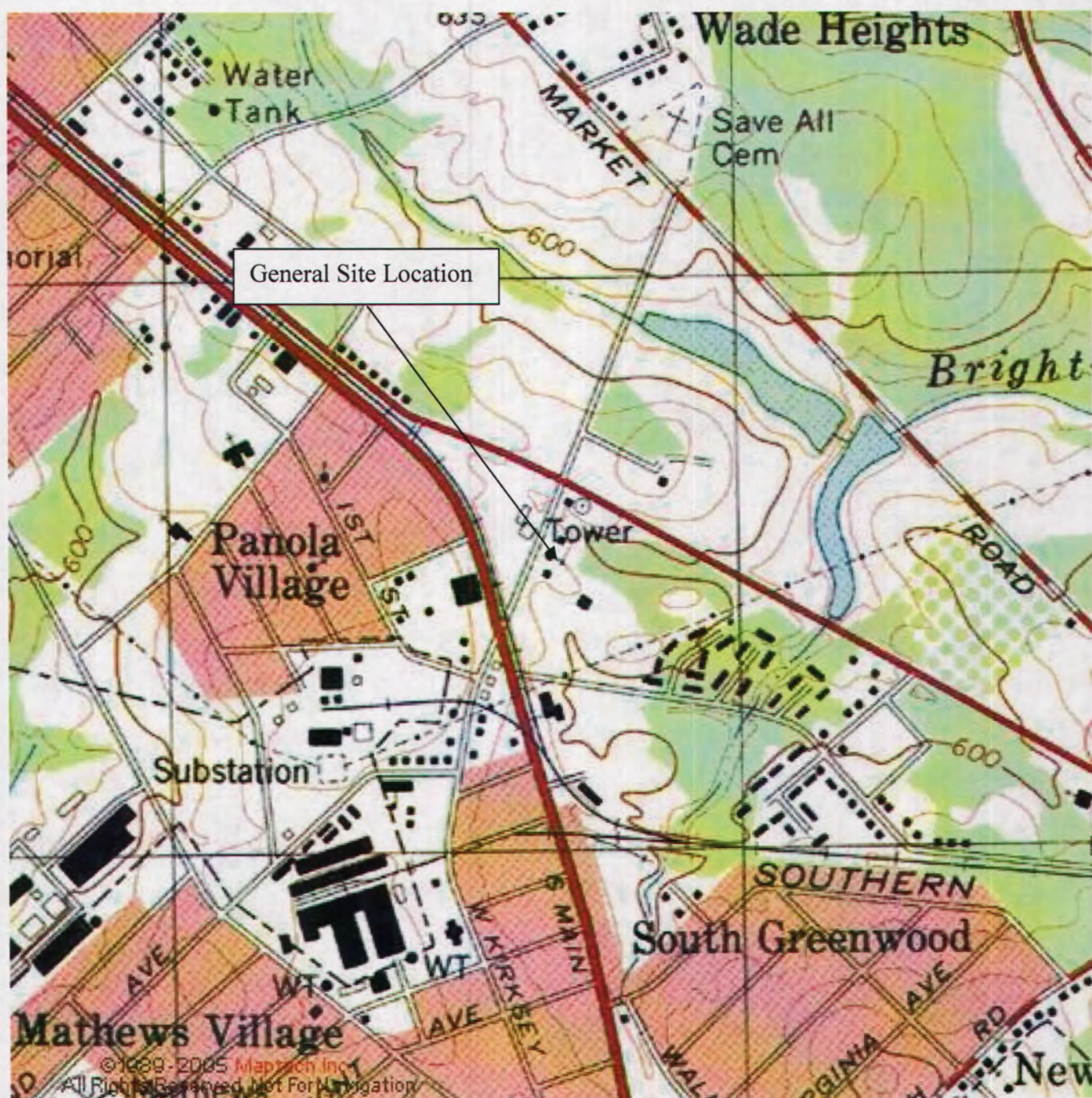
5.0 REFERENCES

Delta Environmental Consultants, Inc., *Monitoring Report*, February, 2005.

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management Underground Storage Tank Program, *South Carolina Risk-Based Corrective Action for Petroleum Releases*, May 15, 2001.

APPENDIX A

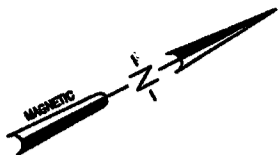
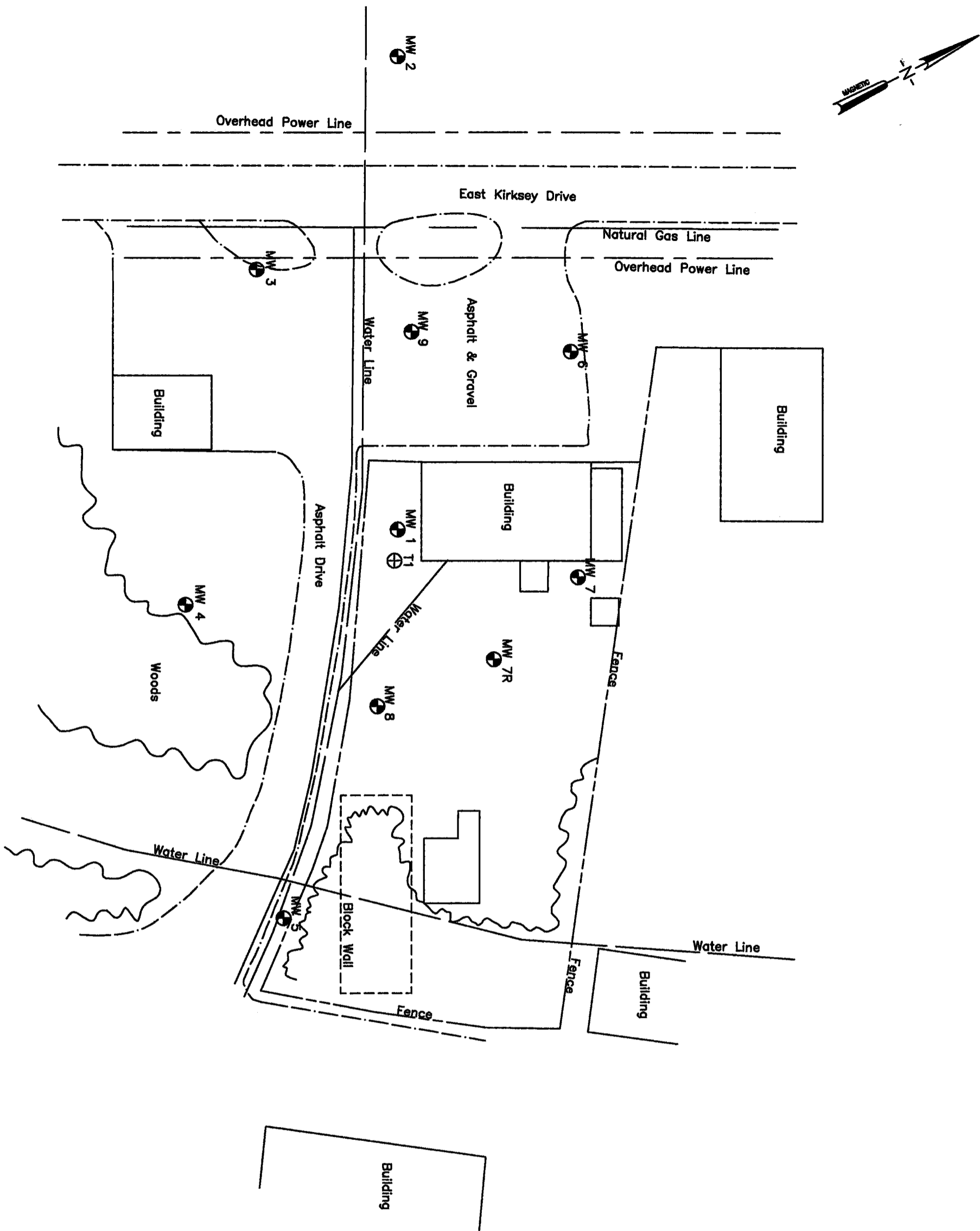
Figures



KLM Environmental, LLC

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

Figure 1
USGS Map
Petroleum Products
Greenwood, SC
UST # 04784



LEGEND	
	MW-1 MONITORING WELL
	T-1 DEEP WELL

FIGURE 2
SITE MAP
 PETROLEUM PRODUCTS
 GREENWOOD, SC SITE ID# 04784



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

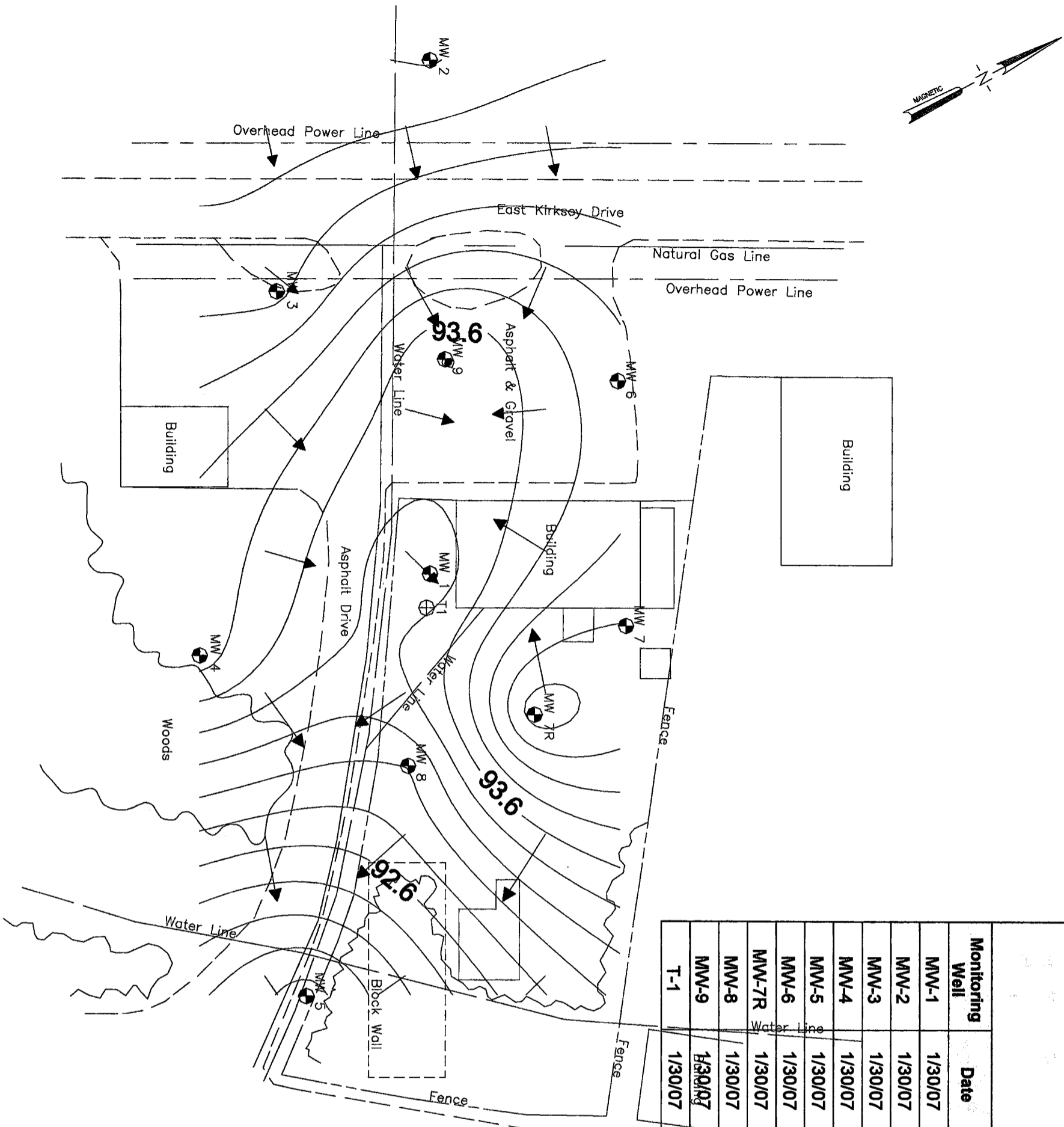


TABLE 1
Groundwater Data (feet)
Petroleum Products
Greenwood, SC

Monitoring Well	Date	TOC Elevation	Screened Interval	TOC to FP	TOC to GW	GW Elevation
MW-1	1/30/07	98.11	5-25	-	4.87	93.24
MW-2	1/30/07	100.64	3-18	-	5.82	94.82
MW-3	1/30/07	98.33	3-18	-	3.87	94.46
MW-4	1/30/07	95.57	3-18	-	1.67	93.90
MW-5	1/30/07	95.87	3-18	-	4.17	91.70
MW-6	1/30/07	98.88	3-18	-	4.93	93.95
MW-7R	1/30/07	97.18	2-17	-	2.64	94.54
MW-8	1/30/07	97.74	3-18	-	4.73	93.01
MW-9	1/30/07	98.44	3-18	-	5.06	93.38
T-1	1/30/07	97.92	35-40	-	4.69	93.23

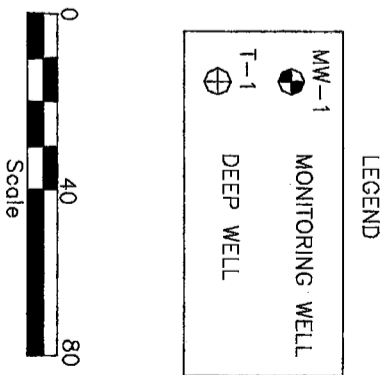


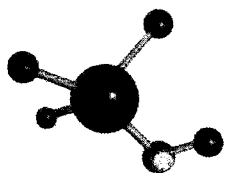
FIGURE 3
PIEZOMETRIC MAP
PETROLEUM PRODUCTS
GREENWOOD, SC SITE ID# 04784



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

APPENDIX B

Laboratory Data



ACCESS
ANALYTICAL, INC.

ANALYTICAL REPORT

CLIENT

KLM Environmental
P. O. Box 2704
Goose Creek, SC 29445

ATTENTION

Mark Keller

PROJECT ID

KLM ENV-Petroleum Products

LABORATORY REPORT NUMBER

207020102

DATE

02/08/2007

Primary Data Review By

Curtis Ekker
Data Validation Manager, GCAL

Secondary Data Review By

Ashley B. Amick
Project Manager, Access Analytical
aamick@accessanalyticalinc.com

PLEASE NOTE:

- Unless otherwise noted, all analysis on this report performed at Gulf Coast Analytical Labs (GCAL), 7979 GSRI Rd. Baton Rouge, LA 70820.
- GCAL is SCDHEC certified laboratory # 73006, NCDENR certified lab # 618, GA certified lab # LA-01955, NELAP certified laboratory # 01955
- Local support services for this project are provided by Access Analytical, Inc.. Access Analytical is a representative of GCAL serving clients in the SC/NC/GA areas. All questions regarding this report should be directed to your local Access Analytical representative at 803.781.4243 or toll free at 888.315.4243.

CASE NARRATIVE

Client: KLM Environmental **Report:** 207020102

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

VOLATILES MASS SPECTROMETRY

In the SW-846 8260B analysis, sample 20702010201 (MW-1) had to be diluted due to compounds that were detected above the linear range of the calibration.

In the SW-846 8260B analysis for analytical batch 342197, the LCS/LCSD exhibited RPD failures; however, all compounds were recovered within control limits.

In the SW-846 8260B analysis for analytical batch 342236, 1 and 2-Dichloroethane was detected at low levels in the blank. This is due to probable laboratory contamination.

SEMI-VOLATILES GAS CHROMATOGRAPHY

In the 8011 analysis for prep batch 341992, no MS/MSD was performed due to insufficient sample volume. All LCS/LCSD recoveries and RPDs were acceptable.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with ISO Guide 25 and NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.



10/20/01 11:00 AM

CURTIS EKKER
DATA VALIDATION MANAGER
GCAL REPORT 207020102

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20702010201	MW-1	Water	01/30/2007 14:20	02/01/2007 09:10
20702010202	MW-2	Water	01/30/2007 12:00	02/01/2007 09:10
20702010203	MW-3	Water	01/30/2007 11:50	02/01/2007 09:10
20702010204	MW-4	Water	01/30/2007 12:50	02/01/2007 09:10
20702010205	MW-5	Water	01/30/2007 12:40	02/01/2007 09:10
20702010206	MW-6	Water	01/30/2007 11:40	02/01/2007 09:10
20702010207	MW-7R	Water	01/30/2007 12:30	02/01/2007 09:10
20702010208	MW-8	Water	01/30/2007 12:20	02/01/2007 09:10
20702010209	MW-9	Water	01/30/2007 11:30	02/01/2007 09:10
20702010210	T-1	Water	01/30/2007 14:00	02/01/2007 09:10

Summary of Compounds Detected

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20702010201	MW-1	Water	01/30/2007 14:20	02/01/2007 09:10

8260B, Volatiles

CAS#	Parameter	Result	RDL	REG LIMIT	Units
71-43-2	Benzene	187	4.00		ug/L

8260B, Volatiles

CAS#	Parameter	Result	RDL	REG LIMIT	Units
108-88-3	Toluene	63.4	1.00		ug/L
100-41-4	Ethylbenzene	56.2	1.00		ug/L
1330-20-7	Xylene (total)	109	3.00		ug/L
91-20-3	Naphthalene	19.6	5.00		ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	11.5	1.00		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20702010208	MW-8	Water	01/30/2007 12:20	02/01/2007 09:10

8260B, Volatiles

CAS#	Parameter	Result	RDL	REG LIMIT	Units
71-43-2	Benzene	1.38	1.00		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20702010201	MW-1	Water	01/30/2007 14:20	02/01/2007 09:10

8260B, Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			4	02/06/2007 18:34	ADI	342236
CAS#	Parameter		Result	RDL	REG LIMIT	Units
71-43-2	Benzene		187	4.00		ug/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	200	170	ug/L	85	78 - 130
1868-53-7	Dibromofluoromethane	200	179	ug/L	90	77 - 127
2037-26-5	Toluene d8	200	178	ug/L	89	76 - 134
17060-07-0	1,2-Dichloroethane-d4	200	166	ug/L	83	71 - 127

8260B, Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/06/2007 18:57	ADI	342236
CAS#	Parameter		Result	RDL	REG LIMIT	Units
108-88-3	Toluene		63.4	1.00		ug/L
100-41-4	Ethylbenzene		56.2	1.00		ug/L
1330-20-7	Xylene (total)		109	3.00		ug/L
91-20-3	Naphthalene		19.6	5.00		ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)		11.5	1.00		ug/L
CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	44.9	ug/L	90	78 - 130
1868-53-7	Dibromofluoromethane	50	45.4	ug/L	91	77 - 127
2037-26-5	Toluene d8	50	45.7	ug/L	91	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	42.5	ug/L	85	71 - 127

8011, EDB & DBCP

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
02/01/2007 11:00	341992	8011	1	02/01/2007 18:58	WAS	342052
CAS#	Parameter		Result	RDL	REG LIMIT	Units
106-93-4	1,2-Dibromoethane		ND	0.010		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20702010202	MW-2	Water	01/30/2007 12:00	02/01/2007 09:10

8260B, Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/06/2007 01:24	ADI	342197

CAS#	Parameter	Result	RDL	REG LIMIT	Units
71-43-2	Benzene	ND	1.00		ug/L
108-88-3	Toluene	ND	1.00		ug/L
100-41-4	Ethylbenzene	ND	1.00		ug/L
1330-20-7	Xylene (total)	ND	3.00		ug/L
91-20-3	Naphthalene	ND	5.00		ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	1.00		ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	44.4	ug/L	89	78 - 130
1868-53-7	Dibromofluoromethane	50	46.9	ug/L	94	77 - 127
2037-26-5	Toluene d8	50	49.4	ug/L	99	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	45.7	ug/L	91	71 - 127

8011, EDB & DBCP

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
02/01/2007 11:00	341992	8011	1	02/01/2007 19:19	WAS	342052

CAS#	Parameter	Result	RDL	REG LIMIT	Units
106-93-4	1,2-Dibromoethane	ND	0.010		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20702010203	MW-3	Water	01/30/2007 11:50	02/01/2007 09:10

8260B, Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/06/2007 01:49	ADI	342197

CAS#	Parameter	Result	RDL	REG LIMIT	Units
71-43-2	Benzene	ND	1.00		ug/L
108-88-3	Toluene	ND	1.00		ug/L
100-41-4	Ethylbenzene	ND	1.00		ug/L
1330-20-7	Xylene (total)	ND	3.00		ug/L
91-20-3	Naphthalene	ND	5.00		ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	1.00		ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	42.6	ug/L	85	78 - 130
1868-53-7	Dibromofluoromethane	50	44.6	ug/L	89	77 - 127
2037-26-5	Toluene d8	50	48.5	ug/L	97	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	46.7	ug/L	93	71 - 127

8011, EDB & DBCP

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
02/01/2007 11:00	341992	8011	1	02/01/2007 19:39	WAS	342052

CAS#	Parameter	Result	RDL	REG LIMIT	Units
106-93-4	1,2-Dibromoethane	ND	0.010		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20702010204	MW-4	Water	01/30/2007 12:50	02/01/2007 09:10

8260B, Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/06/2007 02:11	ADI	342197

CAS#	Parameter	Result	RDL	REG LIMIT	Units
71-43-2	Benzene	ND	1.00		ug/L
108-88-3	Toluene	ND	1.00		ug/L
100-41-4	Ethylbenzene	ND	1.00		ug/L
1330-20-7	Xylene (total)	ND	3.00		ug/L
91-20-3	Naphthalene	ND	5.00		ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	1.00		ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	44.3	ug/L	89	78 - 130
1868-53-7	Dibromofluoromethane	50	47.6	ug/L	95	77 - 127
2037-26-5	Toluene d8	50	49	ug/L	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	46.3	ug/L	93	71 - 127

8011, EDB & DBCP

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
02/01/2007 11:00	341992	8011	1	02/01/2007 19:59	WAS	342052

CAS#	Parameter	Result	RDL	REG LIMIT	Units
106-93-4	1,2-Dibromoethane	ND	0.010		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20702010205	MW-5	Water	01/30/2007 12:40	02/01/2007 09:10

8260B, Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/06/2007 02:33	ADI	342197

CAS#	Parameter	Result	RDL	REG LIMIT	Units
71-43-2	Benzene	ND	1.00		ug/L
108-88-3	Toluene	ND	1.00		ug/L
100-41-4	Ethylbenzene	ND	1.00		ug/L
1330-20-7	Xylene (total)	ND	3.00		ug/L
91-20-3	Naphthalene	ND	5.00		ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	1.00		ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	43.4	ug/L	87	78 - 130
1868-53-7	Dibromofluoromethane	50	47.3	ug/L	95	77 - 127
2037-26-5	Toluene d8	50	47.9	ug/L	96	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	47.2	ug/L	94	71 - 127

8011, EDB & DBCP

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
02/01/2007 11:00	341892	8011	1	02/01/2007 20:19	WAS	342052

CAS#	Parameter	Result	RDL	REG LIMIT	Units
106-93-4	1,2-Dibromoethane	ND	0.010		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20702010206	MW-6	Water	01/30/2007 11:40	02/01/2007 09:10

8260B, Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/06/2007 02:55	ADI	342197

CAS#	Parameter	Result	RDL	REG LIMIT	Units
71-43-2	Benzene	ND	1.00		ug/L
108-88-3	Toluene	ND	1.00		ug/L
100-41-4	Ethylbenzene	ND	1.00		ug/L
1330-20-7	Xylene (total)	ND	3.00		ug/L
91-20-3	Naphthalene	ND	5.00		ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	1.00		ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	45	ug/L	90	78 - 130
1868-53-7	Dibromofluoromethane	50	48.6	ug/L	97	77 - 127
2037-26-5	Toluene d8	50	49.2	ug/L	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	46.9	ug/L	94	71 - 127

8011, EDB & DBCP

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
02/01/2007 11:00	341992	8011	1	02/01/2007 20:40	WAS	342052

CAS#	Parameter	Result	RDL	REG LIMIT	Units
106-93-4	1,2-Dibromoethane	ND	0.010		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20702010207	MW-7R	Water	01/30/2007 12:30	02/01/2007 09:10

8260B, Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/06/2007 03:17	ADI	342197

CAS#	Parameter	Result	RDL	REG LIMIT	Units
71-43-2	Benzene	ND	1.00		ug/L
108-88-3	Toluene	ND	1.00		ug/L
100-41-4	Ethylbenzene	ND	1.00		ug/L
1330-20-7	Xylene (total)	ND	3.00		ug/L
91-20-3	Naphthalene	ND	5.00		ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	1.00		ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	43.8	ug/L	88	78 - 130
1868-53-7	Dibromofluoromethane	50	45.6	ug/L	91	77 - 127
2037-26-5	Toluene d8	50	49.1	ug/L	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	47.1	ug/L	94	71 - 127

8011, EDB & DBCP

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
02/01/2007 11:00	341992	8011	1	02/01/2007 21:00	WAS	342052

CAS#	Parameter	Result	RDL	REG LIMIT	Units
106-93-4	1,2-Dibromoethane	ND	0.010		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20702010208	MW-8	Water	01/30/2007 12:20	02/01/2007 09:10

8260B, Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/06/2007 03:39	ADI	342197

CAS#	Parameter	Result	RDL	REG LIMIT	Units
71-43-2	Benzene	1.38	1.00		ug/L
108-88-3	Toluene	ND	1.00		ug/L
100-41-4	Ethylbenzene	ND	1.00		ug/L
1330-20-7	Xylene (total)	ND	3.00		ug/L
91-20-3	Naphthalene	ND	5.00		ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	1.00		ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	44.3	ug/L	89	78 - 130
1868-53-7	Dibromofluoromethane	50	47.5	ug/L	95	77 - 127
2037-26-5	Toluene d8	50	48.4	ug/L	97	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	47.6	ug/L	95	71 - 127

8011, EDB & DBCP

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
02/01/2007 11:00	341992	8011	1	02/01/2007 21:40	WAS	342052

CAS#	Parameter	Result	RDL	REG LIMIT	Units
106-93-4	1,2-Dibromoethane	ND	0.010		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20702010209	MW-9	Water	01/30/2007 11:30	02/01/2007 09:10

8260B, Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/06/2007 04:01	ADI	342197

CAS#	Parameter	Result	RDL	REG LIMIT	Units
71-43-2	Benzene	ND	1.00		ug/L
108-88-3	Toluene	ND	1.00		ug/L
100-41-4	Ethylbenzene	ND	1.00		ug/L
1330-20-7	Xylene (total)	ND	3.00		ug/L
91-20-3	Naphthalene	ND	5.00		ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	1.00		ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	50	43.7	ug/L	87	78 - 130
1868-53-7	Dibromofluoromethane	50	47.9	ug/L	96	77 - 127
2037-26-5	Toluene d8	50	49	ug/L	98	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	47.8	ug/L	96	71 - 127

8011, EDB & DBCP

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
02/01/2007 11:00	341992	8011	1	02/01/2007 22:00	WAS	342052

CAS#	Parameter	Result	RDL	REG LIMIT	Units
106-93-4	1,2-Dibromoethane	ND	0.010		ug/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
20702010210	T-1	Water	01/30/2007 14:00	02/01/2007 09:10

8260B, Volatiles

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	02/06/2007 04:23	ADI	342197

CAS#	Parameter	Result	RDL	REG LIMIT	Units
71-43-2	Benzene	ND	1.00		ug/L
108-88-3	Toluene	ND	1.00		ug/L
100-41-4	Ethylbenzene	ND	1.00		ug/L
1330-20-7	Xylene (total)	ND	3.00		ug/L
91-20-3	Naphthalene	ND	5.00		ug/L
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	1.00		ug/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
480-00-4	4-Bromofluorobenzene	50	43.5	ug/L	87	78 - 130
1868-53-7	Dibromofluoromethane	50	44.5	ug/L	89	77 - 127
2037-26-5	Toluene d8	50	48.5	ug/L	97	76 - 134
17060-07-0	1,2-Dichloroethane-d4	50	47.5	ug/L	95	71 - 127

8011, EDB & DBCP

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
02/01/2007 11:00	341992	8011	1	02/01/2007 22:20	WAS	342052

CAS#	Parameter	Result	RDL	REG LIMIT	Units
106-93-4	1,2-Dibromoethane	ND	0.010		ug/L

GC/MS Volatiles Quality Control Summary

Analytical Batch 342197 Prep Batch N/A		Client ID GCAL ID Sample Type Analytical Date Matrix		MB342197 453755 Method Blank 02/06/2007 00:18 Water		LCS342197 453756 LCS 02/05/2007 23:12 Water			LCSD342197 453757 LCSD 02/05/2007 23:34 Water						
8260B, Volatiles				Units ug/L		Spike Added	Result	Result	% R	Control Limit	% R	Result	% R	RPD	RPD Limit
107-06-2	1,2-Dichloroethane	ND	1.00	25.0	27.0	108	75 - 122	22.9	92	16	30				
100-41-4	Ethylbenzene	ND	1.00	25.0	25.0	100	80 - 125	21.0	84	17	30				
1634-04-4	tert-Butyl methyl ether (MTBE)	ND	1.00	25.0	25.1	100	72 - 127	21.2	85	17	30				
1330-20-7	Xylene (total)	ND	3.00	75.0	78.5	105	80 - 129	66.4	89	17	30				
91-20-3	Naphthalene	ND	5.00	25.0	28.9	116	67 - 149	23.2	93	22	30				
71-43-2	Benzene	ND	1.00	25.0	26.1	104	80 - 120	22.1	88	17*	11				
108-88-3	Toluene	ND	1.00	25.0	25.2	101	80 - 124	21.8	87	14*	13				
Surrogate															
460-00-4	4-Bromofluorobenzene	43.2	86	50	46.3	93	78 - 130	46.2	92						
1868-53-7	Dibromofluoromethane	48.9	98	50	43.9	88	77 - 127	43.3	87						
2037-26-5	Toluene d8	49.1	98	50	48.5	97	76 - 134	47.8	96						
17060-07-0	1,2-Dichloroethane-d4	46.5	93	50	46.6	93	71 - 127	45.8	92						

Analytical Batch 342236 Prep Batch N/A		Client ID GCAL ID Sample Type Analytical Date Matrix		MB342236 453976 Method Blank 02/06/2007 11:38 Water		LCS342236 453977 LCS 02/06/2007 10:30 Water			LCSD342236 453978 LCSD 02/06/2007 10:53 Water					
8260B, Volatiles				Units ug/L		Spike Added	Result	Result	% R	Control Limit % R	Result	% R	RPD	RPD Limit
107-06-2		1,2-Dichloroethane		1.51 1.00		25.0	25.7	103	75 - 122	25.3	101	2	30	
100-41-4		Ethylbenzene		ND 1.00		25.0	27.8	111	80 - 125	26.9	108	3	30	
1634-04-4		tert-Butyl methyl ether (MTBE)		ND 1.00		25.0	23.4	94	72 - 127	23.9	96	2	30	
1330-20-7		Xylene (total)		ND 3.00		75.0	84.5	113	80 - 129	82.2	110	3	30	
91-20-3		Naphthalene		ND 5.00		25.0	33.7	135	67 - 149	31.0	124	8	30	
71-43-2		Benzene		ND 1.00		25.0	24.5	98	80 - 120	23.6	94	4	11	
108-88-3		Toluene		ND 1.00		25.0	27.3	109	80 - 124	26.5	106	3	13	
Surrogate														
460-00-4		4-Bromofluorobenzene		43.2 86		50	47.1	94	78 - 130	47.3	95			
1868-53-7		Dibromofluoromethane		45.5 91		50	44.5	89	77 - 127	45.6	91			
2037-26-5		Toluene d8		46.1 92		50	47.4	95	76 - 134	48.9	98			
17060-07-0		1,2-Dichloroethane-d4		41.3 83		50	41.5	83	71 - 127	41.6	83			

GC/MS Volatiles Quality Control Summary

Analytical Batch 342236 Prep Batch N/A		Client ID GCAL ID Sample Type Analytical Date Matrix	00M014-80 20701313505 SAMPLE 02/06/2007 13:41 Water	00M014-80 (MS) 20701313515 MS 02/06/2007 15:12 Water			00M014-80 (MSD) 20701313516 MSD 02/06/2007 15:35 Water				
8260B, Volatiles			Units ug/L	Spike Added	Result	% R	Control Limit % R	Result	% R	RPD	RPD Limit
107-06-2	1,2-Dichloroethane	0.00	1.00	25.0	26.3	105	75 - 122	24.4	98	7	30
100-41-4	Ethylbenzene	0.00	1.00	25.0	25.5	102	80 - 125	25.4	102	0.4	30
1330-20-7	Xylene (total)	0.00	3.00	75.0	77.1	103	80 - 129	77.0	103	0.1	30
71-43-2	Benzene	0.00	1.00	25.0	23.9	96	80 - 120	22.6	90	6	30
108-88-3	Toluene	0.00	1.00	25.0	25.1	100	80 - 124	25.0	100	0.4	30
Surrogate											
460-00-4	4-Bromofluorobenzene			50	43.3	87	78 - 130	46.1	92		
1868-53-7	Dibromofluoromethane			50	45.6	91	77 - 127	44.2	88		
2037-26-5	Toluene d8			50	45.1	90	76 - 134	47.5	95		
17060-07-0	1,2-Dichloroethane-d4			50	42.8	86	71 - 127	40.7	81		

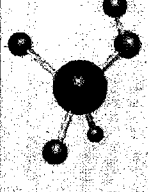
General Chromatography Quality Control Summary

Analytical Batch 342052 Prep Batch 341992 Prep Method 8011		Client ID GCAL ID Sample Type Prep Date Analytical Date Matrix	MB341992 452850 Method Blank 02/01/2007 11:00 02/01/2007 17:57 Water	LCS341992 452851 LCS 02/01/2007 11:00 02/01/2007 18:18 Water	LCSD341992 452852 LCSD 02/01/2007 11:00 02/01/2007 18:38 Water						
8011, EDB & DBCP			Units ug/L	Spike Added	Result Result	% R	Control Limit % R	Result	% R	RPD	RPD Limit
106-93-4	1,2-Dibromoethane		ND 0.010	1.04	1.17	112	62 - 140	1.26	122	7	40

Access Analytical - Chain of Custody Record

Access Analytical 14565/207020 102/12-06-07

Laboratory ID:

Project Submission #		Company Name: KIM Environmental		Preservative (*See codes below)																* Preservative Codes (place corresponding # in black above analysis field): 0=None, 1=HCL, 2=HNO3, 3=H2SO4, 4=NaOH, 5=Na2SO4, 6=NaHSO4, Other=Specify  ACCESS ANALYTICAL, INC. Phone: (803) 781-4243 Fax: 781-4303 7478 Carlisle Street Jmno, SC 29063 Toll Free (888) 315-4243 www.accessanalyticalinc.com	
Report To: Mark Keller		Address: P.O. Box 2704		City: Greene Creek		State: SC		Zip: 29445		Phone: 843 870 4285		Fax: 843 797-1893		Email: AKeller131@comcast.net		Project Name: Petroleum Products		Sampled By (print): Joan Beets			
Sample Label	Date Collected	Time Collected	Memo	# of Cont	REQUESTED LAB ANALYSIS										Relinquished By	Date	Time	Received By			
MW-1	1-30-07	14:20	GW	4	RTX, Wap, MTRF										Joan Beets	1-31-07	1200	R Beets			
MW-2	1-30-07	12:00	GW	4											R Beets	1/31/07	1530	Fed Ex			
MW-3	1-30-07	11:50	GW	4											Fed Ex	2-1-07	0900	R Beets			
MW-4	1-30-07	12:50	GW	4																	
MW-5	1-30-07	12:40	GW	4																	
MW-6	1-30-07	11:40	GW	4																	
MW-7A	1-30-07	12:30	GW	4																	
MW-8	1-30-07	12:20	GW	4																	
MW-9	1-30-07	11:30	GW	4																	
T-1	1-30-07	14:00	GW	4																	
Turnaround Time:		Samples Recd on Ice?		Project Location:																	
<input checked="" type="checkbox"/> Std. (5-7 Bus. days) <input checked="" type="checkbox"/> RUSH* *Date Required: (For rush work, results faxed by end of business day on date required)		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		<input checked="" type="checkbox"/> SC <input type="checkbox"/> NC Other _____ (specify)																	

Original Copy - Returned w/Report
Yellow Copy - Access File Copy
Pink Copy - Client Copy

Access Analytical, Inc.
See Reverse for Terms and Conditions

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) <u>01/30/07</u> Field Personnel <u>J.B.</u> General Weather Condition <u>sunny</u> Ambient Air Temperature <u>45</u> °F Facility Name <u>Petroleum Products</u> Site ID# <u>04784</u> <p style="text-align: center;"><u>Quality Assurance:</u></p> <table style="width: 100%;"> <tr> <td>pH Meter <u>Horiba</u></td> <td>Conductivity Meter: <u>Horiba</u></td> </tr> <tr> <td>serial no. _____</td> <td>serial no. _____</td> </tr> <tr> <td>pH=4.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> <tr> <td>pH=7.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> <tr> <td>pH=10.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> </table> <p style="text-align: center;"><u>Chain of Custody</u></p> <table style="width: 100%;"> <tr> <td>Relinquished by</td> <td>Date/Time</td> <td>Received by</td> <td>Date/Time</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>				pH Meter <u>Horiba</u>	Conductivity Meter: <u>Horiba</u>	serial no. _____	serial no. _____	pH=4.0 <u>Internal</u>	Standard <u>Internal</u>	pH=7.0 <u>Internal</u>	Standard <u>Internal</u>	pH=10.0 <u>Internal</u>	Standard <u>Internal</u>	Relinquished by	Date/Time	Received by	Date/Time					Well # <u>MW-1</u> Well Diameter(D) <u>2"</u> Inches or _____ feet conversion factor(C): $3.143 \cdot (D/2)^2$ for a 2 inch well C=0.163 4 inch well C=0.652 Total Well Depth (TWD) <u>25</u> ft. Depth to GW (DWG) <u>4.87</u> ft. Length of Water Column (LWC=TWD-DGW) <u>20.13</u> ft. 1 Csg. Volume (LWC*C)= _____ x _____ = <u>3.2</u> gals. 3 Csg. Volumes = 3 x _____ = <u>9.6</u> gals. (Std. Purge Volume) Total Volume of Water Purged Before Sampling _____ gals.			
pH Meter <u>Horiba</u>	Conductivity Meter: <u>Horiba</u>																								
serial no. _____	serial no. _____																								
pH=4.0 <u>Internal</u>	Standard <u>Internal</u>																								
pH=7.0 <u>Internal</u>	Standard <u>Internal</u>																								
pH=10.0 <u>Internal</u>	Standard <u>Internal</u>																								
Relinquished by	Date/Time	Received by	Date/Time																						

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	<u>3.2</u>	<u>6.4</u>	<u>9.6</u>					
Time (military)	<u>14:10</u>	<u>14:15</u>	<u>14:20</u>					
pH (s.u.)	<u>6.24</u>	<u>6.18</u>	<u>6.14</u>					
Specific Cond. (mS/cm)	<u>.085</u>	<u>.089</u>	<u>.107</u>					
Water Temp (°C)	<u>18.0</u>	<u>19.5</u>	<u>19.9</u>					
Turbidity (°)	<u>22.1</u>	<u>0</u>	<u>0</u>					
OVA Readings	<u>✓</u>	<u>✓</u>	<u>✓</u>					
Salinity	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>					
Dissolved Oxygen	<u>1.71</u>	<u>2.15</u>	<u>2.96</u>					

Remarks: Sample time 14:20

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
Field Data Information Sheet for Ground Water Sampling

<p>Date (mm/dd/yy) <u>01/30/07</u></p> <p>Field Personnel <u>J.B.</u></p> <p>General Weather Condition <u>sunny</u></p> <p>Ambient Air Temperature <u>42</u> °F</p> <p>Facility Name <u>Petroleum Products</u> Site ID# <u>04784</u></p> <p style="text-align: center;"><u>Quality Assurance:</u></p> <table style="width: 100%;"> <tr> <td>pH Meter <u>Horiba</u></td> <td>Conductivity Meter: <u>Horiba</u></td> </tr> <tr> <td>serial no. _____</td> <td>serial no. _____</td> </tr> <tr> <td>pH=4.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> <tr> <td>pH=7.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> <tr> <td>pH=10.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> </table> <p style="text-align: center;"><u>Chain of Custody</u></p> <table style="width: 100%;"> <tr> <td>Relinquished by</td> <td>Date/Time</td> <td>Received by</td> <td>Date/Time</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	pH Meter <u>Horiba</u>	Conductivity Meter: <u>Horiba</u>	serial no. _____	serial no. _____	pH=4.0 <u>Internal</u>	Standard <u>Internal</u>	pH=7.0 <u>Internal</u>	Standard <u>Internal</u>	pH=10.0 <u>Internal</u>	Standard <u>Internal</u>	Relinquished by	Date/Time	Received by	Date/Time					<p>Well # <u>MW- 2</u></p> <p>Well Diameter(D) <u>2"</u> Inches or _____ feet</p> <p>conversion factor(C): $3.143 \times (D/2)^2$</p> <p>for a 2 inch well C=0.163</p> <p>4 inch well C=0.652</p> <p>Total Well Depth (TWD) <u>18</u> ft.</p> <p>Depth to GW (DWG) <u>5.82</u> ft.</p> <p>Length of Water Column (LWC=TWD-DGW) _____ ft.</p> <p>1 Csg. Volume (LWC*C)= _____ x _____ = _____ gals.</p> <p>3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume)</p> <p>Total Volume of Water Purged Before Sampling _____ gals.</p>
pH Meter <u>Horiba</u>	Conductivity Meter: <u>Horiba</u>																		
serial no. _____	serial no. _____																		
pH=4.0 <u>Internal</u>	Standard <u>Internal</u>																		
pH=7.0 <u>Internal</u>	Standard <u>Internal</u>																		
pH=10.0 <u>Internal</u>	Standard <u>Internal</u>																		
Relinquished by	Date/Time	Received by	Date/Time																

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	<u>—</u>							
Time (military)	<u>12:00</u>							
pH (s.u.)	<u>4.16</u>							
Specific Cond. (mS/cm)	<u>0.025</u>							
Water Temp (°C)	<u>15.2</u>							
Turbidity (*)	<u>0</u>							
OVA Readings	<u>—</u>							
Salinity	<u>0.00</u>							
Dissolved Oxygen	<u>7.93</u>							

Remarks:

*No purge missing Bolts
s.t. 12:00*

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) <u>01/30/07</u> Field Personnel <u>J.B.</u> General Weather Condition <u>Sunny</u> Ambient Air Temperature <u>42</u> °F Facility Name <u>Petroleum Products</u> Site ID# <u>04784</u> <p style="text-align: center;"><u>Quality Assurance:</u></p> <table style="width: 100%;"> <tr> <td>pH Meter <u>Horiba</u></td> <td>Conductivity Meter: <u>Horiba</u></td> </tr> <tr> <td>serial no. _____</td> <td>serial no. _____</td> </tr> <tr> <td>pH=4.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> <tr> <td>pH=7.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> <tr> <td>pH=10.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> </table> <p style="text-align: center;"><u>Chain of Custody</u></p> <table style="width: 100%;"> <tr> <td>Relinquished by</td> <td>Date/Time</td> <td>Received by</td> <td>Date/Time</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>				pH Meter <u>Horiba</u>	Conductivity Meter: <u>Horiba</u>	serial no. _____	serial no. _____	pH=4.0 <u>Internal</u>	Standard <u>Internal</u>	pH=7.0 <u>Internal</u>	Standard <u>Internal</u>	pH=10.0 <u>Internal</u>	Standard <u>Internal</u>	Relinquished by	Date/Time	Received by	Date/Time					Well # <u>MW- 3</u> Well Diameter(D) <u>2"</u> Inches or _____ feet conversion factor(C): $3.143 \cdot (D/2)^2$ for a 2 inch well C=0.163 4 inch well C=0.652 Total Well Depth (TWD) <u>18'</u> ft. Depth to GW (DWG) <u>3.87</u> ft. Length of Water Column (LWC=TWD-DGW) _____ ft. 1 Csg. Volume (LWC*C)= _____ x _____ = _____ gals. 3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume) Total Volume of Water Purged Before Sampling _____ gals.				
pH Meter <u>Horiba</u>	Conductivity Meter: <u>Horiba</u>																									
serial no. _____	serial no. _____																									
pH=4.0 <u>Internal</u>	Standard <u>Internal</u>																									
pH=7.0 <u>Internal</u>	Standard <u>Internal</u>																									
pH=10.0 <u>Internal</u>	Standard <u>Internal</u>																									
Relinquished by	Date/Time	Received by	Date/Time																							

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	<u>11:50</u>							
pH (s.u.)	<u>4.40</u>							
Specific Cond. (mS/cm)	<u>0.59</u>							
Water Temp (°C)	<u>14.2</u>							
Turbidity (*)	<u>0</u>							
OVA Readings								
Salinity	<u>0.00</u>							
Dissolved Oxygen	<u>5.54</u>							

Remarks:

No purge
sat. 11:50

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) <u>01/30/07</u> Field Personnel <u>J.B.</u> General Weather Condition <u>sunny</u> Ambient Air Temperature <u>42</u> °F Facility Name <u>Petroleum Products</u> Site ID# <u>04784</u> <p style="text-align: center;"><u>Quality Assurance:</u></p> <table style="width: 100%;"> <tr> <td>pH Meter <u>Horiba</u></td> <td>Conductivity Meter: <u>Horiba</u></td> </tr> <tr> <td>serial no. _____</td> <td>serial no. _____</td> </tr> <tr> <td>pH=4.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> <tr> <td>pH=7.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> <tr> <td>pH=10.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> </table> <p style="text-align: center;"><u>Chain of Custody</u></p> <table style="width: 100%;"> <tr> <td>Relinquished by</td> <td>Date/Time</td> <td>Received by</td> <td>Date/Time</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>				pH Meter <u>Horiba</u>	Conductivity Meter: <u>Horiba</u>	serial no. _____	serial no. _____	pH=4.0 <u>Internal</u>	Standard <u>Internal</u>	pH=7.0 <u>Internal</u>	Standard <u>Internal</u>	pH=10.0 <u>Internal</u>	Standard <u>Internal</u>	Relinquished by	Date/Time	Received by	Date/Time					Well # <u>MW- 4</u> Well Diameter(D) <u>2"</u> Inches or _____ feet conversion factor(C): $3.143 \times (D/2)^2$ for a 2 inch well C=0.163 4 inch well C=0.652 Total Well Depth (TWD) <u>18'</u> ft. Depth to GW (DWG) <u>1.67</u> ft. Length of Water Column (LWC=TWD-DGW) <u>16.33</u> ft. 1 Csg. Volume (LWC*C)= _____ x _____ = <u>2.66</u> gals. 3 Csg. Volumes = 3 x _____ = <u>8</u> gals. (Std. Purge Volume) Total Volume of Water Purged Before Sampling _____ gals.				
pH Meter <u>Horiba</u>	Conductivity Meter: <u>Horiba</u>																									
serial no. _____	serial no. _____																									
pH=4.0 <u>Internal</u>	Standard <u>Internal</u>																									
pH=7.0 <u>Internal</u>	Standard <u>Internal</u>																									
pH=10.0 <u>Internal</u>	Standard <u>Internal</u>																									
Relinquished by	Date/Time	Received by	Date/Time																							

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	<u>2.7</u>	<u>5.3</u>	<u>8</u>					
Time (military)	<u>12:50</u>	<u>12:50</u>						
pH (s.u.)	<u>5.77</u>	<u>6.09</u>						
Specific Cond. (mS/cm)	<u>251</u>	<u>237</u>						
Water Temp (°C)	<u>14.7</u>	<u>13.9</u>						
Turbidity (*)	<u>999</u>	<u>570</u>						
OVA Readings	<u>—</u>	<u>—</u>						
Salinity	<u>0.00</u>	<u>0.00</u>						
Dissolved Oxygen	<u>2.20</u>	<u>2.84</u>						

Remarks:

sample time 12:50
~~purge~~
 Dry at 5.5

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Date (mm/dd/yy) <u>01/30/07</u> Field Personnel <u>J.B.</u> General Weather Condition <u>Sunny</u> Ambient Air Temperature <u>43</u> °F Facility Name <u>Petroleum Products</u> Site ID# <u>04784</u> <p style="text-align: center;"><u>Quality Assurance:</u></p> <table style="width: 100%;"> <tr> <td>pH Meter <u>Horiba</u></td> <td>Conductivity Meter: <u>Horiba</u></td> </tr> <tr> <td>serial no. _____</td> <td>serial no. _____</td> </tr> <tr> <td>pH=4.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> <tr> <td>pH=7.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> <tr> <td>pH=10.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> </table> <p style="text-align: center;"><u>Chain of Custody</u></p> <table style="width: 100%;"> <tr> <td>Relinquished by</td> <td>Date/Time</td> <td>Received by</td> <td>Date/Time</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>				pH Meter <u>Horiba</u>	Conductivity Meter: <u>Horiba</u>	serial no. _____	serial no. _____	pH=4.0 <u>Internal</u>	Standard <u>Internal</u>	pH=7.0 <u>Internal</u>	Standard <u>Internal</u>	pH=10.0 <u>Internal</u>	Standard <u>Internal</u>	Relinquished by	Date/Time	Received by	Date/Time					Well # <u>MW- 5</u> Well Diameter(D) _____ Inches or _____ feet conversion factor(C): $3.143 \times (D/2)^2$ for a 2 inch well C=0.163 4 inch well C=0.652 Total Well Depth (TWD) <u>18</u> ft. Depth to GW (DWG) <u>4.17</u> ft. Length of Water Column (LWC=TWD-DGW) _____ ft. 1 Csg. Volume (LWC*C)= _____ x _____ = _____ gals. 3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume) Total Volume of Water Purged Before Sampling _____ gals.				
pH Meter <u>Horiba</u>	Conductivity Meter: <u>Horiba</u>																									
serial no. _____	serial no. _____																									
pH=4.0 <u>Internal</u>	Standard <u>Internal</u>																									
pH=7.0 <u>Internal</u>	Standard <u>Internal</u>																									
pH=10.0 <u>Internal</u>	Standard <u>Internal</u>																									
Relinquished by	Date/Time	Received by	Date/Time																							

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	<u>—</u>							
Time (military)	<u>12:40</u>							
pH (s.u.)	<u>5.26</u>							
Specific Cond. (mS/cm)	<u>0.028</u>							
Water Temp (°C)	<u>15.1</u>							
Turbidity (°)	<u>0</u>							
OVA Readings	<u>—</u>							
Salinity	<u>0.00</u>							
Dissolved Oxygen	<u>4.32</u>							

Remarks:

sample time 12:40
No purge

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pH Meter <u>Horiba</u>	Conductivity Meter: <u>Horiba</u>																									
serial no. _____	serial no. _____																									
pH=4.0 <u>Internal</u>	Standard <u>Internal</u>																									
pH=7.0 <u>Internal</u>	Standard <u>Internal</u>																									
pH=10.0 <u>Internal</u>	Standard <u>Internal</u>																									
Relinquished by	Date/Time	Received by	Date/Time																							

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	<u>—</u>							
Time (military)	<u>11:40</u>							
pH (s.u.)	<u>4.47</u>							
Specific Cond. (mS/cm)	<u>0.13</u>							
Water Temp (°C)	<u>14.8</u>							
Turbidity (*)	<u>0</u>							
OVA Readings	<u>—</u>							
Salinity	<u>0.00</u>							
Dissolved Oxygen	<u>5.24</u>							

Remarks:

*No purge
s.t. 11:40*

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Date (mm/dd/yy) <u>01/30/07</u> Field Personnel <u>J.B.</u> General Weather Condition <u>Sunny</u> Ambient Air Temperature <u>43</u> °F Facility Name <u>Petroleum Products</u> Site ID# <u>04784</u> <p style="text-align: center;"><u>Quality Assurance:</u></p> <table style="width: 100%;"> <tr> <td>pH Meter <u>Horiba</u></td> <td>Conductivity Meter: <u>Horiba</u></td> </tr> <tr> <td>serial no. _____</td> <td>serial no. _____</td> </tr> <tr> <td>pH=4.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> <tr> <td>pH=7.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> <tr> <td>pH=10.0 <u>Internal</u></td> <td>Standard <u>Internal</u></td> </tr> </table> <p style="text-align: center;"><u>Chain of Custody</u></p> <table style="width: 100%;"> <tr> <td>Relinquished by</td> <td>Date/Time</td> <td>Received by</td> <td>Date/Time</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>				pH Meter <u>Horiba</u>	Conductivity Meter: <u>Horiba</u>	serial no. _____	serial no. _____	pH=4.0 <u>Internal</u>	Standard <u>Internal</u>	pH=7.0 <u>Internal</u>	Standard <u>Internal</u>	pH=10.0 <u>Internal</u>	Standard <u>Internal</u>	Relinquished by	Date/Time	Received by	Date/Time					Well # <u>MW- 7R</u> Well Diameter(D) <u>2"</u> Inches or _____ feet conversion factor(C): $3.143 \times (D/2)^2$ for a 2 inch well C=0.163 4 inch well C=0.652 Total Well Depth (TWD) <u>17</u> ft. Depth to GW (DWG) <u>2.64</u> ft. Length of Water Column (LWC=TWD-DGW) _____ ft. 1 Csg. Volume (LWC*C)= _____ x _____ = _____ gals. 3 Csg. Volumes = 3 x _____ = _____ gals. (Std. Purge Volume) Total Volume of Water Purged Before Sampling _____ gals.				
pH Meter <u>Horiba</u>	Conductivity Meter: <u>Horiba</u>																									
serial no. _____	serial no. _____																									
pH=4.0 <u>Internal</u>	Standard <u>Internal</u>																									
pH=7.0 <u>Internal</u>	Standard <u>Internal</u>																									
pH=10.0 <u>Internal</u>	Standard <u>Internal</u>																									
Relinquished by	Date/Time	Received by	Date/Time																							

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	—							
Time (military)	12:30							
pH (s.u.)	6.04							
Specific Cond. (mS/cm)	0.72							
Water Temp (°C)	11.5							
Turbidity (*)	222							
OVA Readings	—							
Salinity	0.00							
Dissolved Oxygen	4.41							

Remarks:

sample time 1230
No purge

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pH Meter <u>Horiba</u>	Conductivity Meter: <u>Horiba</u>																		
serial no. _____	serial no. _____																		
pH=4.0 <u>Internal</u>	Standard <u>Internal</u>																		
pH=7.0 <u>Internal</u>	Standard <u>Internal</u>																		
pH=10.0 <u>Internal</u>	Standard <u>Internal</u>																		
Relinquished by	Date/Time	Received by	Date/Time																

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	<u> </u>							
Time (military)	<u>12:20</u>							
pH (s.u.)	<u>5.78</u>							
Specific Cond. (mS/cm)	<u>.055</u>							
Water Temp (°C)	<u>14.7</u>							
Turbidity (*)	<u>0</u>							
OVA Readings	<u> </u>							
Salinity	<u>0.00</u>							
Dissolved Oxygen	<u>1.37</u>							

Remarks:

sample time 12:20
No purge

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pH Meter <u>Horiba</u>	Conductivity Meter: <u>Horiba</u>																									
serial no. _____	serial no. _____																									
pH=4.0 <u>Internal</u>	Standard <u>Internal</u>																									
pH=7.0 <u>Internal</u>	Standard <u>Internal</u>																									
pH=10.0 <u>Internal</u>	Standard <u>Internal</u>																									
Relinquished by	Date/Time	Received by	Date/Time																							

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	<u>—</u>							
Time (military)	<u>11:30</u>							
pH (s.u.)	<u>3.65</u>							
Specific Cond. (mS/cm)	<u>.061</u>							
Water Temp (°C)	<u>16.3</u>							
Turbidity (*)	<u>0</u>							
OVA Readings	<u>—</u>							
Salinity	<u>0.00</u>							
Dissolved Oxygen	<u>6.23</u>							

Remarks:

No purge
st. 11:30

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pH Meter <u>Horiba</u>	Conductivity Meter: <u>Horiba</u>																									
serial no. _____	serial no. _____																									
pH=4.0 <u>Internal</u>	Standard <u>Internal</u>																									
pH=7.0 <u>Internal</u>	Standard <u>Internal</u>																									
pH=10.0 <u>Internal</u>	Standard <u>Internal</u>																									
Relinquished by	Date/Time	Received by	Date/Time																							

	Initial	1 st vol.	2 nd vol.	3 rd vol.	4 th vol.	5 th vol.	Post	Sampling
Volume Purged (gallons)	<u>6</u>	<u>12</u>	<u>18</u>					
Time (military)	<u>13:40</u>	<u>13:50</u>	<u>13:58</u>					
pH (s.u.)	<u>6.62</u>	<u>6.33</u>	<u>6.51</u>					
Specific Cond. (mS/cm)	<u>132</u>	<u>125</u>	<u>125</u>					
Water Temp (°C)	<u>17.5</u>	<u>18.4</u>	<u>17.8</u>					
Turbidity (°)	<u>387</u>	<u>252</u>	<u>26</u>					
OVA Readings	<u>---</u>	<u>---</u>	<u>---</u>					
Salinity	<u>0.00</u>	<u>0.00</u>	<u>0.00</u>					
Dissolved Oxygen	<u>1.77</u>	<u>1.44</u>	<u>2.49</u>					

Remarks:

sample time 14:00

APPENDIX C

Disposal Manifest



Water Recovery

Non-Hazardous Wastewater Manifest		Number: 3324	
1. Generator's EPA ID# (if applicable):		Waste ID Number:	
2. Generator's Name and Mailing Address: KIM Environmental PO Box 2704 Goose Creek SC		Phone () 843 270-4285 PO #:	
3. Agent of Generator and Mailing Address: same		Phone () PO #:	
4. Transporter Company Name:		Phone ()	
Truck & Trailer License Number:			
5. Transporter U.S. EPA ID#:			
6. Facility Name and Site Address: U S Water Recovery 435 Old Mt. Holly Rd. Mt. Holly, SC 29445		Phone: (843) 797-8674 Fax: (843) 797-2126 Mailing Address: U S Water Recovery P O Box 70397 North Charleston, SC 29415 Phone: (843) 744-0118 Fax (843) 744-0730	
7. Facility U.S. EPA ID#:			
Start Level:	End Level:	Total Gallons:	Tank Number
8. U.S. DOT Description		Container No. Type	Unit Quantity
a. Non-Hazardous, non-regulated waste water			
Bob White's El cheapo			65 gal
Petroleum Products			30 gal
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:		Signature:	Date:
10. Transporter Acknowledgement of Receipt of Materials		Date: 2-9-07	
Printed/Typed Name: Jason Rader		Signature: Jason Rader	
11. Discrepancy indication space:			
12. Facility Owner or Operator: Certification of Receipt of Materials			
Printed/Typed Name: David Ward		Signature: David Ward	Date: 2-9-07

White - Facility

Yellow - Transporter

Pink - Generator































CD's Information

Date Received: 4/26/21

Permit Number: 64785

Project Manager: Caitlin Beilly

Contractor: KLM

Description: AFVR Rpt

Docket Number: 23T Initials: _____

Scanned by: _____

Verified by: _____



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

April 20, 2021

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

Re: Quick Pantry # 19
Permit # 04785 CA # 63514

Ms. Reilly,

This letter, along with its attachments, is presented to document the results of the two 96-hour Aggressive Fluid Vapor Recovery (AFVR) events performed on April 5th through April 9th, and April 12th through April 16th, 2021 at the Quick Pantry # 19 site. Both 96-hour AFVR events were conducted on the tank pit well now referred to as MW-1. The well was gauged before and after each event. Results from the two 96-hour AFVR events are provided on the attached tables. On the first event, a total of 110.79 gallons of petroleum were recovered as vapor and 466 gallons of free product was recovered. On the second event, a total of 222.80 gallons of petroleum were recovered as vapor and 193 gallons of free product was recovered. That puts a total recovery of 659 gallons of free product, 333.59 gallons of product as vapor, and a total of 6,706 gallons of contaminated ground water. 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.

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 Tables; Vacuum Gauge Tables; Emission Calculations; Waste Manifests; Photographs; USGS Map; Site Map; Thermal Oxidizer Photograph; Thermal Oxidizer Specifications; Tank Stick; Gauging Procedure; Tank Charts

Table 1
AFVR Event Data

4-5-2021 - 4-9-2021
Quick Pantry #19 (USDHEC UST #04785)

Date	Time	Stinger Depth (ft)				Recovery Rate					Air Emissions Concentrations (ppm)		
		MW-1				Vacuum (In. Hg)	Air Flow (cfm)	Temp (F)	Stack Vel. (mph)	Humidity	PID Pre-Treatment	PID Post-Treatment	% Mass Reduction
4/5/2021	10:00	12				21	119.8	68.6	15.6	74.3	6188	66.3	98.93
4/5/2021	10:30	12.5				21	121.4	71.4	15.8	72.6	6658	70.2	98.95
4/5/2021	11:00	13				21	119.1	71.9	15.5	76.7	6522	68.7	98.95
4/5/2021	11:30	13.5				21	120.6	74.5	15.7	76.9	6573	67.4	98.97
4/5/2021	12:00	14				21	121.4	77.2	15.8	78.4	6169	65.4	98.94
4/5/2021	12:30	14.5				21	117.5	78.4	15.3	77.7	5981	55.9	99.07
4/5/2021	13:00	15				21	119.8	78.7	15.6	78.6	6054	58.8	99.03
4/5/2021	13:30	15.5				21	119.8	80.1	15.6	79.2	5888	53.7	99.09
4/5/2021	14:00	16				21	117.5	86.8	15.3	79.6	5671	45.6	99.20
4/5/2021	14:30	18				21	120.6	88.1	15.7	78.8	5449	51.1	99.06
4/5/2021	15:00	20				21	116.8	89.6	15.2	80.3	5366	61.5	98.85
4/5/2021	15:30	22				21	119.1	91.3	15.5	81.1	5146	71.6	98.61
4/5/2021	16:00	24				21	112.9	90.8	14.7	82.3	4983	73.4	98.53
4/5/2021	16:30	26.5				21	116.0	92.7	15.1	81.8	4944	74.4	98.50
4/5/2021	17:00	27.5				22	118.3	92.4	15.4	83.5	4677	79.1	98.31
4/5/2021	17:30	28.5				22	114.5	93.5	14.9	83.7	4748	82.3	98.27
4/5/2021	18:00	28.5				22	118.3	93.8	15.4	83.3	4662	81.9	98.24
4/5/2021	19:00	28.5				21	120.6	91.7	15.7	80.8	4564	79.8	98.25
4/5/2021	20:00	28.5				21	119.1	90.9	15.5	80	4289	79.4	98.15
4/5/2021	21:00	28.5				22	113.7	87.3	14.8	78.4	4364	88.6	97.97
4/5/2021	22:00	28.5				21	117.5	86.6	15.3	78.5	3961	84.6	97.86
4/5/2021	23:00	28.5				22	116.0	84.2	15.1	77.3	3759	83.4	97.78
4/5/2021	0:00	28.5				22	119.8	81.8	15.6	75.6	3478	79.6	97.71
4/6/2021	8:00	28.5				22	113.7	58.7	14.8	66.2	3577	84.7	97.63
4/6/2021	9:00	28.5				21	115.2	79.3	15	57.6	3254	83.6	97.43
4/6/2021	10:00	28.5				21	116.0	80.3	15.1	61.1	3266	84.3	97.42
4/6/2021	12:00	28.5				21	113.7	95.7	14.8	48.8	2773	82.1	97.04
4/6/2021	14:00	28.5				21	115.2	96.7	15	43.2	2246	83.5	96.28
4/6/2021	16:00	28.5				21	116.0	97.7	15.1	39.4	2268	85.2	96.24
4/6/2021	18:00	28.5				21	115.2	97.2	15	37.4	2144	87.7	95.91
4/6/2021	20:00	28.5				21	115.2	95.3	15	41.1	2094	85.2	95.93
4/6/2021	22:00	28.5				21	115.2	91.6	15	41.8	1983	86.8	95.62
4/6/2021	0:00	28.5				21	116.0	87.4	15.1	55.3	1965	87.7	95.54
4/7/2021	8:00	28.5				21	115.2	60.2	15	68.4	2094	84.7	95.96
4/7/2021	10:00	28.5				21	115.2	77.8	15	71.2	1936	89.2	95.39
4/7/2021	12:00	28.5				21	112.9	117.3	14.7	66.5	2956	101.3	96.57
4/7/2021	14:00	28.5				21	110.6	119.8	14.4	62.1	9261	130.1	98.60
4/7/2021	16:00	28.5				21	114.5	121.4	14.9	64.7	13109	132.3	98.99
4/7/2021	18:00	28.5				21	112.9	123.8	14.7	61.4	15000	145.2	99.03
4/7/2021	20:00	28.5				21	117.5	120.5	15.3	59.6	15000	173.9	98.84
4/7/2021	22:00	28.5				21	112.2	119.4	14.6	57.9	15000	204.2	98.64
4/7/2021	0:00	28.5				21	116.0	117.1	15.1	60.2	15000	210.7	98.60
4/8/2021	8:00	28.5				21	113.7	112.5	14.8	56.3	15000	236.1	98.43
4/8/2021	10:00	28.5				21	110.6	114.8	14.4	59.1	15000	258.4	98.28
4/8/2021	12:00	28.5				21	114.5	118.9	14.9	62.9	15000	242.7	98.38
4/8/2021	14:00	28.5				21	117.5	120.3	15.3	60.1	15000	263.9	98.24
4/8/2021	16:00	28.5				21	112.9	117.5	14.7	65.7	15000	271.2	98.19
4/8/2021	18:00	28.5				21	114.5	119.8	14.9	62.3	15000	267.3	98.22
4/8/2021	20:00	28.5				21	119.1	118.2	15.5	69.5	15000	308.9	97.94
4/8/2021	22:00	28.5				21	116.0	116.5	15.1	73.8	15000	295.5	98.03
4/8/2021	0:00	28.5				21	117.5	117.2	15.3	70.2	15000	292.1	98.05
4/9/2021	8:00	28.5				21	112.9	114.9	14.7	67.4	15000	296.8	98.02
4/9/2021	10:00	28.5				21	116.0	116.4	15.1	72.7	15000	289.5	98.07
							0.0						#DIV/0!
							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	11.81	16.6	27.33	28.25

Table 1
AFVR Event Data

4/12/2021 - 4/16/2021
Quick Pantry #19 (USDHEC UST #04785)

Date	Time	Stinger Depth (ft)				Recovery Rate					Air Emissions Concentrations (ppm)		
		MW-1				Vacuum (In. Hg)	Air Flow (cfm)	Temp (F)	Stack Vel. (mph)	Humidity	PID Pre-Treatment	PID Post-Treatment	% Mass Reduction
4/12/2021	12:30	12.92				-22	125.2	78.9	16.3	58.3	6938	127.3	98.17
4/12/2021	13:00	13.42				-22	121.4	81.4	15.8	64.7	6843	131.6	98.08
4/12/2021	13:30	13.92				-22	124.5	86.1	16.2	55.9	7381	138.1	98.13
4/12/2021	14:00	14.42				-22	119.1	93.7	15.5	59.1	7228	135.8	98.12
4/12/2021	14:30	15				-22	114.5	103.4	14.9	56.6	8596	142.5	98.34
4/12/2021	15:00	16				-22	120.6	105.5	15.7	52.8	12113	184.7	98.48
4/12/2021	15:30	17				-22	116.8	112.6	15.2	55.3	15000	209.4	98.60
4/12/2021	16:00	18				-22	125.2	110.9	16.3	58.5	15000	231.7	98.46
4/12/2021	16:30	19				-22	122.2	113.5	15.9	63.2	15000	228.1	98.48
4/12/2021	17:00	20				-22	116.8	116.2	15.2	59.1	15000	235.5	98.43
4/12/2021	17:30	21				-22	121.4	114.7	15.8	62.6	15000	252.9	98.31
4/12/2021	18:00	22				-22	116.8	117.3	15.2	58.7	15000	261.3	98.26
4/12/2021	18:30	23				-22	119.1	116.1	15.5	64.5	15000	253.1	98.31
4/12/2021	19:00	24.5				-22	113.7	114.8	14.8	66.3	15000	249.8	98.33
4/12/2021	19:30	26				-22	112.2	115.6	14.6	61.9	15000	288.5	98.08
4/12/2021	20:00	27.5				-22	117.5	113.2	15.3	63.2	15000	275.1	98.17
4/12/2021	20:30	28.5				-22	112.9	114.2	14.7	58.4	15000	271.7	98.19
4/12/2021	21:00	28.5				-22	119.1	112.8	15.5	57.1	15000	245.8	98.36
4/12/2021	22:00	28.5				-22	116.0	108.6	15.1	59.7	15000	269.4	98.20
4/12/2021	23:00	28.5				-22	125.2	107.1	16.3	64.5	15000	291.8	98.05
4/12/2021	0:00	28.5				-22	119.8	101.3	15.6	68.3	15000	280.5	98.13
4/13/2021	8:00	28.5				-22	118.3	95.1	15.4	65.1	15000	284.3	98.10
4/13/2021	9:00	28.5				-22	114.5	97.3	14.9	70.8	15000	261.7	98.26
4/13/2021	10:00	28.5				-22	120.6	97.9	15.7	72.3	15000	249.4	98.34
4/13/2021	11:00	28.5				-22	116.0	99.4	15.1	68.5	15000	257.2	98.29
4/13/2021	12:00	28.5				-22	122.2	103.2	15.9	63.7	15000	264.9	98.23
4/13/2021	13:00	28.5				-22	117.5	106.7	15.3	69.2	15000	250.6	98.33
4/13/2021	14:00	28.5				-22	112.9	108.9	14.7	73.8	15000	253.7	98.31
4/13/2021	16:00	28.5				-22	119.1	107.3	15.5	68.5	15000	251.3	98.32
4/13/2021	18:00	28.5				-22	117.5	104.1	15.3	71.7	15000	259.5	98.27
4/13/2021	20:00	28.5				-22	122.2	101.7	15.9	74.8	15000	262.8	98.25
4/13/2021	22:00	28.5				-22	119.8	95.3	15.6	72.9	15000	257.3	98.28
4/13/2021	0:00	28.5				-22	116.0	87.6	15.1	55.3	15000	229.5	98.47
4/14/2021	8:00	28.5				-22	115.2	78.5	15	68.4	15000	211.2	98.59
4/14/2021	10:00	28.5				-21	115.2	83.6	15	71.2	14783	218.8	98.52
4/14/2021	12:00	28.5				-21	112.9	91.8	14.7	66.5	14397	200.4	98.61
4/14/2021	14:00	28.5				-21	110.6	93.5	14.4	62.1	15000	224.6	98.50
4/14/2021	16:00	28.5				-21	114.5	96.4	14.9	64.7	15000	214.1	98.57
4/14/2021	18:00	28.5				-21	112.9	92.8	14.7	61.4	14836	206.5	98.61
4/14/2021	20:00	28.5				-21	117.5	93.1	15.3	59.6	14659	189.4	98.71
4/14/2021	22:00	28.5				-22	112.2	89.4	14.6	57.9	14924	201.4	98.65
4/14/2021	0:00	28.5				-22	116.0	81.7	15.1	60.2	15000	243.7	98.38
4/15/2021	8:00	28.5				-22	113.7	77.8	14.8	56.3	15000	239.9	98.40
4/15/2021	10:00	28.5				-22	110.6	82.1	14.4	59.1	15000	225.1	98.50
4/15/2021	12:00	28.5				-22	114.5	92.5	14.9	62.9	15000	221.5	98.52
4/15/2021	14:00	28.5				-21	117.5	97.2	15.3	60.1	15000	233.3	98.44
4/15/2021	16:00	28.5				-21	112.9	96.7	14.7	65.7	15000	229.7	98.47
4/15/2021	18:00	28.5				-21	114.5	93.4	14.9	62.3	14832	218.1	98.53
4/15/2021	20:00	28.5				-21	119.1	95.1	15.5	69.5	15000	227.2	98.49
4/15/2021	22:00	28.5				-21	116.0	87.6	15.1	73.8	14659	215.9	98.53
4/15/2021	0:00	28.5				-22	117.5	88.3	15.3	70.2	12984	198.3	98.47
4/16/2021	8:00	28.5				-22	112.9	82.5	14.7	67.4	13438	202.5	98.49
4/16/2021	10:00	28.5				-22	116.0	89.9	15.1	72.7	14019	209.7	98.50
4/16/2021	12:00	28.5				-22	119.8	92.7	15.6	70.5	13756	199.3	98.55
4/16/2021	13:00	28.5				-22	116.8	98.4	15.2	71.9	13702	197.9	98.56
							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	12.42	15.39		27.87

Site Location: Quick Pantry #19

Date: 4/5/2021

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

	Target Well			Adjacent Well (every 2 Hrs)					
Time	MW-1								
	Hg	Hg	Hg	DTW	Hg	DTW	Hg	DTW	Hg
10:00	10								
10:30	10								
11:00	10								
11:30	10								
12:00	10								
12:30	12								
13:00	12								
13:30	12								
14:00	12								
14:30	12								
15:00	12								
15:30	12								
16:00	11								
16:30	11								
17:00	12								
17:30	12								
18:00	12								
19:00	11								
20:00	12								
21:00	12								
22:00	12								
23:00	12								
24:00	12								



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
4/5/2021

Site Location: Quick Pantry #19

Date: 4/6/2021 – 4/7/2021

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

	Target Well			Adjacent Well (every 2 Hrs)					
Time	MW-1								
	Hg	Hg	Hg	DTW	Hg	DTW	Hg	DTW	Hg
4/6/2021									
8:00	-12								
10:00	-12								
12:00	-11								
14:00	-12								
16:00	-12								
18:00	-11								
20:00	-13								
22:00	-13								
24:00	-12								
4/7/2021									
8:00	-13								
10:00	-13								
12:00	-12								
14:00	-13								
16:00	-13								
18:00	-13								
20:00	-13								
22:00	-12								
24:00	-12								



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
4/6/2021 – 4/7/2021

Site Location: Quick Pantry #19

Date: 4/8/2021 – 4/9/2021

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

	Target Well			Adjacent Well (every 2 Hrs)					
Time	MW-1								
	Hg	Hg	Hg	DTW	Hg	DTW	Hg	DTW	Hg
4/8/2021									
8:00	-12								
10:00	-12								
12:00	-12								
14:00	-13								
16:00	-13								
18:00	-12								
20:00	-12								
22:00	-12								
24:00	-12								
4/9/2021									
8:00	-10								
10:00	-11								



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
4/8/2021 – 4/9/2021

Site Location: Quick Pantry #19

Date: 4/12/2021

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

	Target Well			Adjacent Well (every 2 Hrs)					
Time	MW-1								
	Hg	Hg	Hg	DTW	Hg	DTW	Hg	DTW	Hg
13:00	13								
13:30	13								
14:00	13								
14:30	13								
15:00	13								
15:30	13								
16:00	13								
16:30	12								
17:00	12								
17:30	12								
18:00	12								
18:30	12								
19:00	13								
19:30	13								
20:00	13								
20:30	12								
21:00	13								
22:00	11								
23:00	13								
24:00	13								



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
4/12/2021

Site Location: Quick Pantry #19

Date: 4/13/2021 – 4/14/2021

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

	Target Well			Adjacent Well (every 2 Hrs)					
Time	MW-1								
	Hg	Hg	Hg	DTW	Hg	DTW	Hg	DTW	Hg
4/13/2021									
8:00	-13								
10:00	-13								
12:00	-13								
14:00	-13								
16:00	-13								
18:00	-13								
20:00	-14								
22:00	-14								
24:00	-12								
4/14/2021									
8:00	-14								
10:00	-14								
12:00	-13								
14:00	-13								
16:00	-13								
18:00	-14								
20:00	-14								
22:00	-14								
24:00	-14								



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
4/13/2021 – 4/14/2021

Site Location: Quick Pantry #19

Date: 4/15/2021 – 4/16/2021

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

	Target Well			Adjacent Well (every 2 Hrs)					
Time	MW-1								
	Hg	Hg	Hg	DTW	Hg	DTW	Hg	DTW	Hg
4/15/2021									
8:00	-14								
10:00	-14								
12:00	-14								
14:00	-13								
16:00	-13								
18:00	-14								
20:00	-13								
22:00	-13								
24:00	-14								
4/16/2021									
8:00	-13								
10:00	-13								
12:00	-14								
12:30	-13								



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
4/15/2021 – 4/16/2021

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

4/5/21 - 4/9/21

$$\text{PPM}_w = \text{PPM}_{\text{measured}} = 7547.547$$

$$\text{PPM}_d = \text{PPM}_w / (1 - Bws) = 8055.447$$

$$\text{PPM}_c = (\text{PPM}_d)(K) = 32221.79$$

$$C_{c:m} = \text{PPM}_c (M_c / K_3) = 16077.43$$

$$C_c = C_{c:m} (62.43 \times 10^{-9}) = 0.001004$$

$$\text{PMR}_c = C_c (Q_{\text{std}})(60) = 6.23259$$

$$\text{PMR}_g = (\text{PMR}_c)(M_g / M_{cg}) = 7.212997 \text{ lbs of emissions per hour}$$

110.7916 Gallons of emissions per 96 hours

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

4/12/21 - 4/16/21

$$\text{PPM}_w = \text{PPM}_{\text{measured}} = 14624.3$$

$$\text{PPM}_d = \text{PPM}_w / (1 - Bws) = 15608.42$$

$$\text{PPM}_c = (\text{PPM}_d)(K) = 62433.68$$

$$C_{c:m} = \text{PPM}_c (M_c / K_3) = 31151.99$$

$$C_c = C_{c:m} (62.43 \times 10^{-9}) = 0.001945$$

$$\text{PMR}_c = C_c (Q_{\text{std}})(60) = 12.53368$$

$$\text{PMR}_g = (\text{PMR}_c)(M_g / M_{cg}) = \mathbf{14.50527 \text{ lbs of emissions per hour}}$$

222.8009 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:		Phone ()	
<i>Quick Pantry #19</i>		P O #:	
3. Agent of Generator and Mailing Address:		Phone ()	
		P O #:	
4. Transporter Company Name:		Phone ()	
<i>KLM</i>			
Truck & Trailer License Number:			
5. Transporter U.S. EPA ID#:			
6. Facility Name and Site Address:		Mailing Address:	
US Water Recovery		US Water Recovery	
511 Old Mt. Holly Rd.		511 Old Mt. Holly Rd.	
Goose Creek, SC 29445		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	Quantity
a. Non-Hazardous, non-regulated waste water			
<i>Quick Pantry #19 water (1635) - (361)</i>			<i>1996 gal</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:		Signature:	
		Date:	
10. Transporter Acknowledgement of Receipt of Materials			
Printed/Typed Name:		Signature:	
<i>STEVEN WILSON</i>		<i>[Signature]</i>	
		Date: <i>4-13-21</i>	
11. Discrepancy Indication space:			
12. Facility Owner or Operator: Certification of Receipt of Materials			
Printed/Typed Name:		Signature:	
<i>Dan Wilson</i>		<i>[Signature]</i>	
		Date: <i>4-18-21</i>	

White - Facility

Yellow - Office

Pink - Transporter

Blue - Generator

26629

Apr 13, 2021 3:41:25 PM
1257 State Road S-8-62
Summerville
Berkeley County
South Carolina



SECURITY NOTICE
RESTRICTED AREA
AUTHORIZED
PERSONNEL ONLY



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:

Phone ()

P O #:

3. Agent of Generator and Mailing Address:

Phone ()

P O #:

4. Transporter Company Name:

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

Quick Pantry #19 (2674) (92) Gas

2766 Gals 51 "

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:

Signature:

Date:

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name:

Signature:

Date:

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name:

Signature:

Date:

White - Facility

Yellow - Office

Pink - Transporter

Blue - Generator

26658

113 Epting Avenue
Greenwood County
South Carolina

Apr 9, 2021 11:41:41 AM



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: _____ Phone () _____

P O #:

3. Agent of Generator and Mailing Address: _____ Phone () _____

P O #:

4. Transporter Company Name: _____ 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

Quick Pantry #19 (966) Water Gas (101)

1,067 gal 29"

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:

Signature:

Date:

10. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name:

Signature:

Date:

11. Discrepancy Indication space:

12. Facility Owner or Operator: Certification of Receipt of Materials

Printed/Typed Name:

Signature:

Date:

White - Facility

Yellow - Office

Pink - Transporter

Blue - Generator

26659

102 West Kirksey Drive
Greenwood County
South Carolina

Apr 15, 2021 11:15:44 AM



SECURITY

RESTRICTED

AUTHORIZ

PERSONNEL

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:		Phone ()																															
<i>Quick Pentry # 1431 - (108) GAS</i>		P O #:																															
3. Agent of Generator and Mailing Address:		Phone ()																															
		P O #:																															
4. Transporter Company Name:		Phone ()																															
<i>KLM</i> 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		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2">Container</th> <th rowspan="2">Unit</th> <th rowspan="2">Quantity</th> </tr> <tr> <th>No.</th> <th>Type</th> </tr> <tr> <td colspan="4">a. Non-Hazardous, non-regulated waste water</td> </tr> <tr> <td colspan="2"><i>Quick Pentry # 1431 - (108) GAS</i></td> <td></td> <td><i>1536 gal</i></td> </tr> <tr><td colspan="2"></td><td></td><td></td></tr> <tr><td colspan="2"></td><td></td><td></td></tr> <tr><td colspan="2"></td><td></td><td></td></tr> <tr><td colspan="2"></td><td></td><td></td></tr> </table>		Container		Unit	Quantity	No.	Type	a. Non-Hazardous, non-regulated waste water				<i>Quick Pentry # 1431 - (108) GAS</i>			<i>1536 gal</i>																
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Printed/Typed Name:		Signature:																															
		Date:																															
10. Transporter Acknowledgement of Receipt of Materials																																	
Printed/Typed Name:		Signature:																															
<i>STEVE 10/1/02</i>		<i>Steve [Signature]</i>																															
		Date: <i>4-9-01</i>																															
11. Discrepancy Indication space:																																	
12. Facility Owner or Operator: Certification of Receipt of Materials																																	
Printed/Typed Name:		Signature:																															
<i>Dan [Signature]</i>		<i>[Signature]</i>																															
		Date: <i>4-9-01</i>																															

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

26628

1802 Main Street South
Greenwood County
South Carolina
Apr 16, 2021 12:59:58 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



KLM Environmental, LLC

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

Figure 2
Sample Location Map
Quick Pantry # 19
Greenwood, SC
Project # 21547



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 ³ /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 Abatement Actions

Mark Lee Keller <mkeller131@comcast.net>

Fri 4/23/2021 12:17 PM

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

Cc: mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>

1 attachments (849 KB)


Davis & Floyd Site Map.docx;

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

Please see attached a site plan from Davis & Floyd for the Foundry site. Of note is the utility corridor shown on the northern edge at Foundry Road. It is also noted the pond is represented here just to the east of the words "broken top". The pipe is shown that feeds the pond coming in from the west but only a short distance. I am assuming they did not know where it originated. I believe the manhole you were investigating yesterday is the one shown just north of the 22" OAK. The map doesn't show it connected to the catch basin across the street but we know that to be the case. The map does show it connected to the storm drain from farther up towards the Quick Pantry # 19, which looks like what you show in the photos you collected. I verified the locations of the catch basins using street view and believe these to be our same locations.

Mark

Mark L. Keller, PG
President

 **KLM Environmental, LLC**

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

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

Sent: Thursday, April 22, 2021 5:11 PM

To: mkeller131@comcast.net

Cc: mikepatel8905@yahoo.com; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com; Ariail, Ryan D. <AriailRD@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>

Subject: Re: UST #04785 Abatement Actions

Mark,

Here is the second group of pictures.

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 [Facebook](#) [Twitter](#)

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

Sent: Thursday, April 22, 2021 5:10 PM

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

Cc: mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>

Subject: Re: UST #04785 Abatement Actions

Mark,

We just got back from the site visit, while there the booms looked good. We also went to check out the storm drains. I did find that the drain along Foundry Road right by the creek nearest to Mr. Smith's property had a slight odor that wasn't present the last time we were out there. It wasn't too bad, but it could be smelled if the wind blew just right. Now the hot storm drain, S147, across the street still had a very strong odor again today. We were able to get our phone down into it and snap a few photos, the bottom right corner seemed to have what looked like an oily sheen. After seeing this is when we gave you a call about hand augering outside of the drain by that corner.



While using the auger, we encountered very thick reddish-orange clay. From 2.5 ft to about 3 ft down the clay began to have a dark gravel-like material mixed in that had the same odor as the drain, I took some photos that I will also attach. We stopped at about 3.95 ft, at this point the clay started to become very wet. After this we went and gauged the well on site. Free product was encountered at 13.82 ft and water at 14.74 ft, so there seemed to be about 0.92ft of free product today.

I had to save the photos as a PDF so I could send them in just two emails, I hope you will be able to see them alright. If not, let me know and I can try to send them over a few emails. I'm looking forward to talking with you on Monday, let me know if you need anything in the meantime.

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 [Facebook](#) [Twitter](#)



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

Sent: Thursday, April 22, 2021 5:02 PM

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

Cc: mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>

Subject: Re: UST #04785 Abatement Actions

Mark,

We just got back from the site visit, while there the booms looked good. We also went to check out the storm drains. I did find that the drain along Foundry Road right by the creek nearest to Mr. Smith's property had a slight odor that wasn't present the last time we were out there. It wasn't too bad, but it could be smelled if the wind blew just right. Now the hot storm drain, S147, across the street still had a very strong odor again today. We were able to get our phone down into it and snap a few photos, the bottom right corner seemed to have what looked like an oily sheen. After seeing this is when we gave you a call about hand augering outside of the drain by that corner.

While using the auger, we encountered very thick reddish-orange clay. From 2.5 ft to about 3 ft down the clay began to have a dark gravel-like material mixed in that had the same odor as the drain, I took some photos that I will also attach. We stopped at about 3.95 ft, at this point the clay started to become very wet. After this we went and gauged the well on site. Free product was encountered at 13.82 ft and water at 14.74 ft, so there seemed to be about 0.92ft of free product today.

I had to save the photos as a PDF so I could send them all together, I hope you will be able to see them alright. If not, let me know and I can try to send them over a few emails. I'm looking forward to talking with you on Monday, let me know if you need anything in the meantime.

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 [Facebook](#) [Twitter](#)



From: Thrash, Ashleigh <thrasham@dhec.sc.gov>
Sent: Thursday, April 22, 2021 11:01 AM
To: mkeller131@comcast.net <mkeller131@comcast.net>
Cc: Reilly, Caitlin M. <reillycm@dhec.sc.gov>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>
Subject: Re: UST #04785 Abatement Actions

Good Morning all!

Caitlin Reilly (the PM for this release) and Corie White (our Field Hydrogeologist) are heading out to the site today to do a general site visit. They will be taking a look at the booms as well as gauging the well used for recovery on-site. We will share all information obtained from today's site visit ASAP.

Please let us know if you have any questions or if we can be of any assistance!

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 [Facebook](#) [Twitter](#)

From: Thrash, Ashleigh <thrasham@dhec.sc.gov>
Sent: Wednesday, April 21, 2021 4:39 PM
To: mkeller131@comcast.net <mkeller131@comcast.net>
Cc: Reilly, Caitlin M. <reillycm@dhec.sc.gov>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>
Subject: Re: UST #04785 Abatement Actions

Great! Let us know if we can help further.

Have a good evening!

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 [Facebook](#) [Twitter](#)

From: Mark Keller <mkeller131@comcast.net>
Sent: Wednesday, April 21, 2021 4:37 PM
To: Thrash, Ashleigh <thrasham@dhec.sc.gov>
Cc: Reilly, Caitlin M. <reillycm@dhec.sc.gov>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>
Subject: Re: UST #04785 Abatement Actions

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***
Thank you Ashley. Staying under this cost agreement should be ok since we can invoice against it as work is approved.

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 Apr 21, 2021, at 4:33 PM, Thrash, Ashleigh <thrasham@dhec.sc.gov> wrote:

Hi Mark,

You may invoice for the AFVRs already completed under the same CA number even though they are separate reports. This current CA is open and we have already issued 3 AFVRs under this one CA. We can also complete addendums if necessary for new AFVRs if they are appropriate till the next phase of abatement is initiated. If this does not work for you though, we can issue a new CA for each AFVR.

We may have to wait till tomorrow to issue you new letters and line item printouts however as it is end of day. Just let us know.

Thanks, and hope you are having a great week so far!

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 [Facebook](#) [Twitter](#)

From: Mark Keller <mceller131@comcast.net>
Sent: Wednesday, April 21, 2021 4:18 PM
To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Cc: Thrash, Ashleigh <thrasham@dhec.sc.gov>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>
Subject: Re: UST #04785 Abatement Actions

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

Can we make this AFVR request a new cost agreement? I need to invoice this to Quick Pantry so we can process their payments since we have a deductible. I have already submitted the report as a stand alone document under the cost agreement. Let me know if that is ok.

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 Apr 21, 2021, at 4:01 PM, Reilly, Caitlin M. <reillycm@dhec.sc.gov> wrote:

Mark,

Here is the NTP letter and approved cost agreement for the third AFVR request, I will send a hard copy out as well.

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 [Facebook](#) [Twitter](#)

From: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Sent: Wednesday, April 21, 2021 1:30 PM
To: mkeller131@comcast.net <mkeller131@comcast.net>
Cc: Thrash, Ashleigh <thrasham@dhec.sc.gov>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>
Subject: Re: UST #04785 Abatement Actions

Awesome, here is the conference line information. Please let me know if you need anything in the meantime!

Access Phone Number: 1-800-753-1965
7-Digit Access Code: 8982544

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 [Facebook](#) [Twitter](#)

From: Mark Keller <mkeller131@comcast.net>
Sent: Wednesday, April 21, 2021 1:15 PM
To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Cc: Thrash, Ashleigh <thrasham@dhec.sc.gov>; mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>
Subject: Re: UST #04785 Abatement Actions

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***
Yes that should be ok. Please send me the information to call in.

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 Apr 21, 2021, at 1:14 PM, Reilly, Caitlin M. <reillycm@dhec.sc.gov> wrote:

Mark,

Midafternoon will work for us as well, should we shoot for 3? I can get the conference line reserved for then if that works for you. Also, will you need me to send you the conference information?

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 [Facebook](#) [Twitter](#)



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

Sent: Wednesday, April 21, 2021 12:43 PM

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

Cc: mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>

Subject: RE: UST #04785 Abatement Actions

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

We will be prepping for the job on Tuesday but I should be finished running our field GC standards by midafternoon, if that works.

Mark L. Keller, PG
President



KLM Environmental, LLC

PO Box 2704

Goose Creek, SC 29445

843-870-4285 Cell

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

Sent: Wednesday, April 21, 2021 12:39 PM

To: mkeller131@comcast.net; Thrash, Ashleigh <thrasham@dhec.sc.gov>

Cc: mikepatel8905@yahoo.com; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com; Ariail, Ryan D. <AriailRD@dhec.sc.gov>

Subject: Re: UST #04785 Abatement Actions

Mark,

I'm sorry, it looks like a few of us won't be available Friday after all, that was my mistake. Would you have anytime on Monday for a call?

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 [Facebook](#) [Twitter](#)

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

Sent: Wednesday, April 21, 2021 10:16 AM

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

Cc: mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com

<shahpetroinc@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>

Subject: RE: UST #04785 Abatement Actions

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

Caitlin,

We will not have anyone on site this week. We will be back on site next week on Tuesday to begin the Tier II Phase I. I will be available for a call on Friday.

Thanks

Mark

Mark L. Keller, PG
President



KLM Environmental, LLC

PO Box 2704

Goose Creek, SC 29445

843-870-4285 Cell

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

Sent: Wednesday, April 21, 2021 9:34 AM

To: mkeller131@comcast.net; Thrash, Ashleigh <thrasham@dhec.sc.gov>

Cc: mikepatel8905@yahoo.com; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com; Ariail, Ryan D.

<AriailRD@dhec.sc.gov>

Subject: Re: UST #04785 Abatement Actions

Good morning Mark,

I will get another AFVR approved and emailed over to you today, I'm going to a tank pull this morning so it might be sometime this afternoon. Also, I wanted to let you know I have a site visit planned for tomorrow to see how the booms are holding up and I was wondering if anyone would be on site? If not it's no big deal, I can try to plan another trip to meet up with you when the assessment starts.

Lastly, I wanted to know if you were available this Friday afternoon for a conference call to discuss the phase II plans?

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 [Facebook](#) [Twitter](#)

From: Mark Lee Keller <mkeller131@comcast.net>
Sent: Tuesday, April 20, 2021 1:30 PM
To: Thrash, Ashleigh <thrasham@dhsc.sc.gov>; Reilly, Caitlin M. <reillycm@dhsc.sc.gov>
Cc: mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Mehta, Mihir <mehtam@dhsc.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; Ariail, Ryan D. <AriailRD@dhsc.sc.gov>
Subject: RE: UST #04785 Abatement Actions

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***
 Please find attached the results of the two 96 Hour AFVR events. In total we recovered 659 gallons of free product and 333 gallons of product as vapor. These are excellent recovery rates. We only generated 6,706 gallons of water in total. I will send a hard copy of this report by mail as well.

Based on these results, we recommend continued AFVR activities as recovery rates are high. Please let me know how you would like to proceed.

We have also been in contact with the property owner, Ronney Smith, by telephone and he has indicated he and his son Brandon will be sending back the signed permission form for site access. We have already received signed permission forms from the City of Greenwood and the Housing Authority as well as the property bordering the Quick Pantry 19 site to the south along Main Street (1810 Main Street). We are still waiting on responses from the property owners located west (upgradient) from the Quick Pantry # 19, across Kirksey Drive. We will send a follow up letters to those owners this week.

As access appears forthcoming, KLM would like to proceed with approval of the second phase of the Tier II Assessment. We should begin the first phase next week on April 27th. We will also submit a plan to intercept the free product on the Smith property for your review.

Please let me know if you have any questions.

Mark L. Keller, PG
 President



KLM Environmental, LLC

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

From: Thrash, Ashleigh <thrasham@dhsc.sc.gov>
Sent: Thursday, April 15, 2021 3:56 PM
To: mkeller131@comcast.net; Reilly, Caitlin M. <reillycm@dhsc.sc.gov>
Cc: mikepatel8905@yahoo.com; Mehta, Mihir <mehtam@dhsc.sc.gov>; shahpetroinc@yahoo.com; Ariail, Ryan D. <AriailRD@dhsc.sc.gov>
Subject: Re: UST #04785 Abatement Actions

Thank you so much for sharing these, Mark, it is extremely informative.

Caitlin is reviewing the file for 04784 to see if there are any other helpful figures (old UST configuration, etc).

Ashleigh

Ashleigh Thrash, P.G.
 Section Manager, Assessment & Non-Permitted Petroleum

S.C. Dept. of Health & Environmental Control
 Office: (803) 898-0607

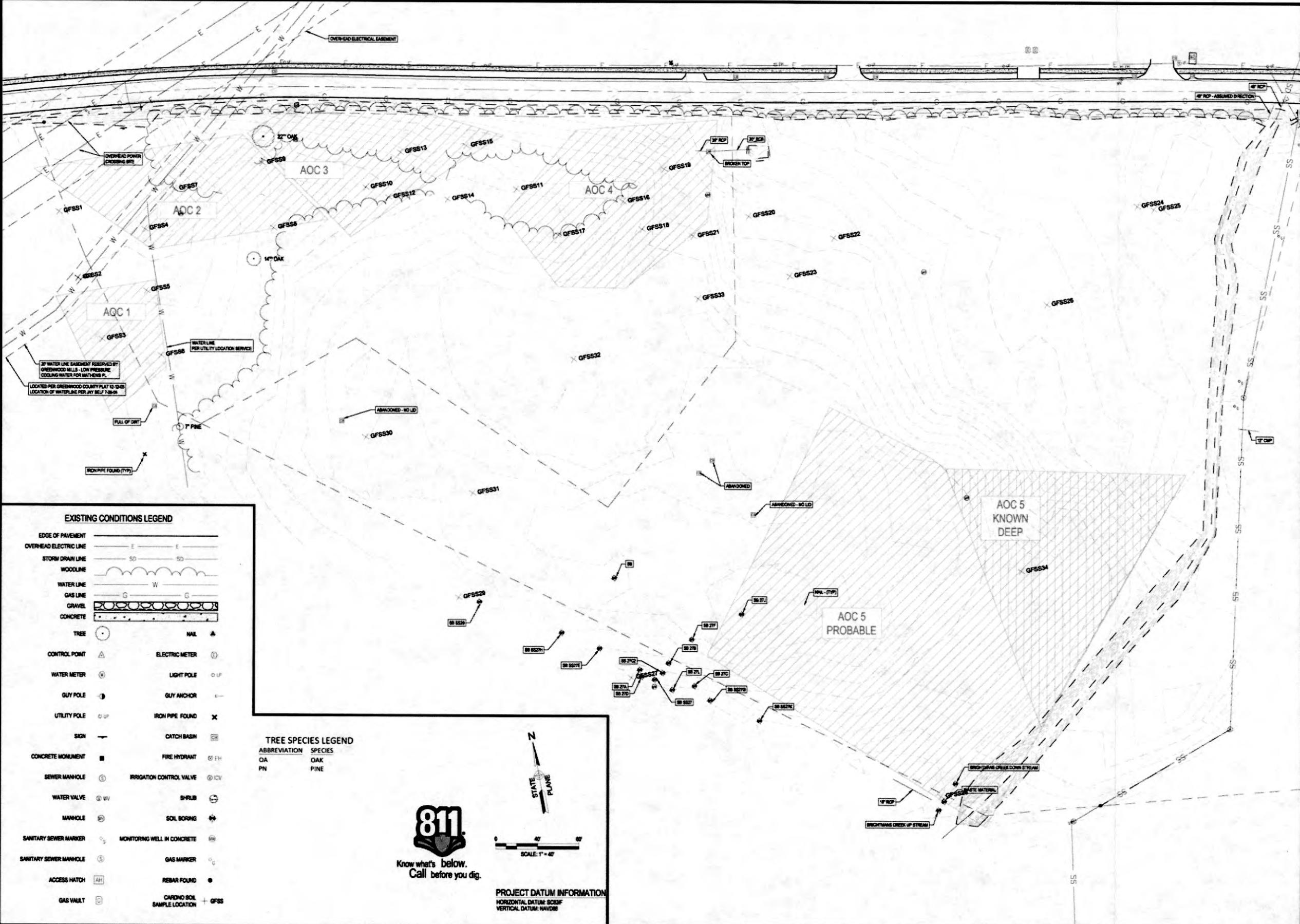
Cell: (803) 608-1765
 Connect: www.scdhsc.gov [Facebook](#) [Twitter](#)



From: Mark Lee Keller <mkeller131@comcast.net>
Sent: Thursday, April 15, 2021 3:47 PM
To: Reilly, Caitlin M. <reillycm@dhsc.sc.gov>; Thrash, Ashleigh <thrasham@dhsc.sc.gov>
Cc: mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Mehta, Mihir <mehtam@dhsc.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; Ariail, Ryan D. <AriailRD@dhsc.sc.gov>
Subject: RE: UST #04785 Abatement Actions

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***
 We have the Aerial Decade Package back. It is too large to send in one email so I will send it in two separate email. Many of the maps are not clear enough to use. However, if you look at the map from 1981 and the one from 1964, it appears there

These drawings and the design thereon are the property of Davis & Floyd, Inc. and may not be used in whole or in part without written consent of the engineer, architect and any infringement will be subject to legal action.



EXISTING CONDITIONS LEGEND	
EDGE OF PAVEMENT	— E — E —
OVERHEAD ELECTRIC LINE	— SD — SD —
STORM DRAIN LINE	— W — W —
WOODLINE	— G — G —
WATER LINE	— G — G —
GAS LINE	— G — G —
GRAVEL	— G — G —
CONCRETE	— G — G —
TREE	○
CONTROL POINT	△
WATER METER	⊙
GUY POLE	⊙
UTILITY POLE	⊙
SIGN	—
CONCRETE MONUMENT	■
SEWER MANHOLE	⊙
WATER VALVE	⊙
MANHOLE	⊙
SANITARY SEWER MARKER	⊙
SANITARY SEWER MANHOLE	⊙
ACCESS HATCH	⊙
GAS VAULT	⊙
NAIL	▲
ELECTRIC METER	⊙
LIGHT POLE	⊙
GUY ANCHOR	—
IRON PIPE FOUND	×
CATCH BASIN	⊙
FIRE HYDRANT	⊙
IRRIGATION CONTROL VALVE	⊙
SHRUB	⊙
SOIL BORING	⊙
MONITORING WELL IN CONCRETE	⊙
GAS MARKER	⊙
REBAR FOUND	⊙
CARDINO SOIL SAMPLE LOCATION	⊙

TREE SPECIES LEGEND

ABBREVIATION	SPECIES
OA	OAK
PN	PINE

811

Know what's below.
Call before you dig.

PROJECT DATUM INFORMATION

HORIZONTAL DATUM: NAD83
VERTICAL DATUM: NAVD83

NOT FOR CONSTRUCTION

DAVIS & FLOYD

SINCE 1934

1315 HICKORY STREET EAST
GREENWOOD, SC 29615

CITY OF GREENWOOD & GREENWOOD COUNTY

GREENWOOD COUNTY, SOUTH CAROLINA

GREENWOOD COUNTY PARKS

FOUNDRY PARK EXISTING CONDITIONS

1315 HICKORY STREET
GREENWOOD, SC 29615
8-15-19
JCH
1315 HICKORY STREET
GREENWOOD, SC 29615
8-15-19
JCH

EX107



RE: UST #04785 Abatement Actions

Mark Lee Keller <mkeller131@comcast.net>

Fri 4/23/2021 12:17 PM

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

Cc: mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>

1 attachments (849 KB)

Davis & Floyd Site Map.docx

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

Please see attached a site plan from Davis & Floyd for the Foundry site. Of note is the utility corridor shown on the northern edge at Foundry Road. It is also noted the pond is represented here just to the east of the words "broken top". The pipe is shown that feeds the pond coming in from the west but only a short distance. I am assuming they did not know where it originated. I believe the manhole you were investigating yesterday is the one shown just north of the 22" OAK. The map doesn't show it connected to the catch basin across the street but we know that to be the case. The map does show it connected to the storm drain from farther up towards the Quick Pantry # 19, which looks like what you show in the photos you collected. I verified the locations of the catch basins using street view and believe these to be our same locations.

Mark

Mark L. Keller, PG
President

KLM Environmental, LLC

PO Box 2704

Goose Creek, SC 29445

843-870-4285 Cell

From: Reilly, Caitlin M. <reillycm@dhec.sc.gov>**Sent:** Thursday, April 22, 2021 5:11 PM**To:** mkeller131@comcast.net**Cc:** mikepatel8905@yahoo.com; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com; Ariail, Ryan D. <AriailRD@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>**Subject:** Re: UST #04785 Abatement Actions

Mark,

Here is the second group of pictures.

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 [Facebook](#) [Twitter](#)**From:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>**Sent:** Thursday, April 22, 2021 5:10 PM**To:** mkeller131@comcast.net <mkeller131@comcast.net>**Cc:** mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>**Subject:** Re: UST #04785 Abatement Actions

Mark,

We just got back from the site visit, while there the booms looked good. We also went to check out the storm drains. I did find that the drain along Foundry Road right by the creek nearest to Mr. Smith's property had a slight odor that wasn't present the last time we were out there. It wasn't too bad, but it could be smelled if the wind blew just right. Now the hot storm drain, S147, across the street still had a very strong odor again today. We were able to get our phone down into it and snap a few photos, the bottom right corner seemed to have what looked like an oily sheen. After seeing this is when we gave you a call about hand augering outside of the drain by that corner.



Drilling/Soil Boring Audit Form
Underground Storage Tank Management Division

RESULTS:

☒ Satisfactory
☐ Issues

Date: 4/28/2021 Project Manager: Caitlin Reilly DHEC Field Staff: M. Vincent, C. Reilly, J. Brownell
Contractor: KLM Environmental Contractor Field Staff: Mark, Graham, Gary
Drilling Company: KLM Environmental Driller's Name: Mark Keller
Driller's Certification Number: 1554 B Same information as ACQAP/SSWP? YES
Site Number: 04785 Site Name: Quick Pantry
Time Arrived at Site: 1025 Time Leaving Site: 1315 Weather Conditions: Sunny ~75°F

Which SB/MW location? TWC Monitoring Well Approval Form on Site? ☐ YES ☒ NO Caitlin will check

Type of Rig: Geoprobe 7822DT Bit Size: _____ Auger Size: _____

Method: ☐ Hollow-stem ☐ Solid-stem ☐ Mud-rotary ☐ Air-rotary ☒ Other: Direct-push

Drilling fluids? ☐ YES ☒ NO Type of Sampler: ☐ Hammer-weight ☐ Fall ☐ Other: _____

Depth to Groundwater: _____ Total Depth of Borehole: ~25-30 ft

Screened Interval: _____ Gravel Pack Size: _____ Gravel Pack Interval: _____

Bentonite Type: _____ Bentonite Interval: _____

Bentonite Hydrated: ☐ YES ☐ NO Length of Time: _____

Geologist's and/or driller's log completed correctly? ☒ YES ☐ NO

IDW contained properly? ☒ YES ☐ NO Labeled properly? ☐ YES ☐ NO

Equipment decontamination observed? ☒ YES ☐ NO

Equipment appeared to be decontaminated? ☒ YES ☐ NO

Materials stored and handled properly? ☐ YES ☐ NO

PPE handled, stored, and worn properly? ☐ YES ☒ NO no hard hats steel toes

Soil samples collected and stored properly? ☐ YES ☐ NO N/A

Type of soil sample collected: ☒ Lithology ☒ Screening ☐ Grain Size ☐ Lab Analysis ☐ Other: _____

Signature: [Signature] Date: 4/28/2021

Notes: Arrived onsite @ 1025. Mark gave us a tour of the site (holes where they had already probed) and showed us how they take screen samples + analyze using their mobile GC. Holes were already made at the gas station and we observed them putting in the temporary well casings

Notes (continued): The plan was to move off gas station property once tws were completed. They have a decon pit set up to decon pvc between TW installations.

Caitlin has the MW approval form → will send it out to Mark.
We watched 2 samples go through mobile GC from across street.

UST DRILLING AND SOIL BORING AUDIT FORM

- Purpose of the form is to record information gathered during an audit of drilling and soil boring activities.
- DHEC UST Project Managers and Field Staff.
- Item-by-item instructions for completing the form.
 - Fill in all Site Information boxes
 - Answer all the questions and record any applicable information in the blanks.
 - Sign and date the form.
 - Record any applicable notes.
- Form is scanned and saved electronically – Record Group Number 169, Retention Schedule 13300



APR 22 2021

MR MIKE PATEL
311 OAKMONTE CIRCLE
GREENWOOD SC 29649



Re: Aggressive Fluid and Vapor Recovery Notice to Proceed
Quick Pantry 19, 1802 South Main Street, Greenwood, SC
UST Permit #04785; CA #63514
Release reported and confirmed date March 9, 2021
Aggressive Fluid Vapor Recovery received via email April 21, 2021
Greenwood County

Dear Mr. Patel:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the above referenced report which documents free-phase product (FPP) or Chemicals of Concern (CoC) in the subsurface as a result of the above referenced release. In addition, we have received complaints from citizens in the area about petroleum vapors which represent a risk to human health and the environment. DHEC personnel visited the site March 26, 2021 and March 29, 2021 and confirmed the presence of vapors as well as noted a petroleum seep in the nearby creek.

DHEC approves the above referenced SSWP so that free-phase product removal on-site may commence. Please note the following changes to the cost agreement and Site Specific Work Plan (SSWP) addendum:

- Line W16 – Gallons of AFVR Effluent Disposal has been changed from 20,000 to 7,000

In accordance with Section 280.64 of the South Carolina Underground Storage Tank Control Regulations R.61-92, Aggressive Fluid and Vapor Recovery (AFVR) events may proceed immediately upon receipt of this letter as outlined in this directive, the approved Site-Specific Work Plan, and the current revision of the UST Quality Assurance Program Plan (QAPP). **Please be aware that the AFVR Procedures have been updated.** Please advance to the target depth(s) within the first eight (8) hours of the event. Thereafter, the stinger(s) should be adjusted to achieve the highest vapor recovery while maintaining dewatering of the smear zone. Off-gas treatment will be necessary. A copy of the current revision of the UST Division's QAPP is available at

<https://scdhec.gov/environment/land-waste/underground-storage-tanks/release-assessment-clean/quality-assurance>.

As soon as the beginning date of the event has been scheduled, please contact the Project Manager listed below. Preliminary AFVR data should be submitted electronically for review at the completion of the third event. At that time, DHEC will issue another AFVR directive if AFVR is effective at removing FPP.

The third AFVR Report should be submitted within 90 days from the date of this correspondence.

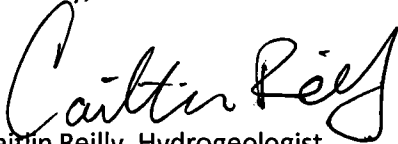
Please note that all applicable South Carolina certification requirements apply to the services and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

According to UST Division records, the release at the facility was reported to DHEC on the above referenced date. In accordance with Section 44-2-40(D) of the State Underground Petroleum Environmental Response Bank (SUPERB) Act, you are responsible for the first \$25,000 of site rehabilitation costs. To ensure that costs for the assessment apply to the \$25,000 deductible, please provide proof of costs that will be applied to the deductible with the invoice. Acceptable proof or payment of deductible costs include a copy of the cancelled check (front and back) of payment made to your contractor or a signed notarized statement by your contractor for the amount that was paid directly to your contractor. Your contractor can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for preapproved costs that exceed the \$25,000 deductible.

DHEC grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. The transport and disposal must be conducted in accordance with the QAPP. If CoC concentrations, based on laboratory analysis, are below Risk Based Screening Levels, please contact the Project Manager for approval to dispose of soil and/or groundwater on site. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

On all correspondence concerning this site, please reference UST Permit #04785. If there are any questions concerning this project, feel free to contact me by telephone at (803) 898-3807, by fax at (803) 898-0673, or by e-mail at reillycm@dhec.sc.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Caitlin Reilly". The signature is fluid and cursive, with the first name "Caitlin" and last name "Reilly" clearly distinguishable.

Caitlin Reilly, Hydrogeologist

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

cc: Mr. Shah Aziz, 311 Oakmonte Circle, Greenwood, SC 29649
KLM Environmental LLC, PO Box 2704, Goose Creek, South Carolina 29445 (w/o enc)
Technical file (w/enc)



ASSESSMENT COMPONENT COST AGREEMENT
SOUTH CAROLINA
 Department of Health and Environmental Control
 Underground Storage Tank Management Division
 State Underground Petroleum Environmental Response Bank Account
 January 1, 2020

Facility Name: Quick Pantry 19

UST Permit #: 04785 Cost Agreement #: 63514

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
A. Plan Preparation				
1. Site-specific Work Plan		each	\$160.05	\$0.00
2. Tax Map		each	\$74.69	\$0.00
3. Tier II or Comp. Plan /QAPP Appendix B		each	\$250.00	\$0.00
B. Receptor Survey *		each	\$587.92	\$0.00
C. Survey (500 ft x 500 ft)				
1. Comprehensive Survey		each	\$1,109.68	\$0.00
Subsurface Geophysical Survey				
2. < 10 meters below grade		each	\$1,387.10	\$0.00
3. > 10 meters below grade		each	\$2,464.77	\$0.00
4. Geophysical UST or Drum Survey		each	\$970.97	\$0.00
D. Mobil/Demob				
1. Equipment		each	\$1,088.34	\$0.00
2. Personnel		each	\$451.34	\$0.00
3. Adverse Terrain Vehicle		each	\$533.50	\$0.00
E. Soil Borings (hand auger)*		foot	\$5.34	\$0.00
F. Soil Borings (requiring equipment, push technology, etc)* or Field Screening (including water sample, soil sample, soil gas sample, etc.)*				
1. Standard		per foot	\$16.01	\$0.00
2. Fractured Rock		per foot	\$21.55	\$0.00
G. Soil Leachability Model		each	\$64.02	\$0.00
H. Abandonment (per foot)*				
1. 2" diameter or less		per foot	\$3.31	\$0.00
2. Greater than 2" to 6" diameter		per foot	\$4.80	\$0.00
3. Dug/Bored well (up to 6 feet diameter)		per foot	\$16.00	\$0.00
I. Well Installation (per foot)*				
1. Water Table (hand augered)		per foot	\$11.31	\$0.00
2. Water Table (drill rig)		per foot	\$40.55	\$0.00
3. Telescoping		per foot	\$53.35	\$0.00
4. Rock Drilling		per foot	\$61.89	\$0.00
5. 2" Rock Coring		per foot	\$32.97	\$0.00
6. Rock Multi-sampling ports/screens		per foot	\$35.64	\$0.00
7. Recovery Well (4" diameter)		per foot	\$48.02	\$0.00
8. Pushed Pre-packed screen (1.25" dia)		per foot	\$16.01	\$0.00
9. Rotasonic (2" diameter)		per foot	\$46.95	\$0.00
10. Re-develop Existing Well		per foot	\$11.74	\$0.00
J. Groundwater Sample Collection / Gauge Depth to Water or Product *				
1. Groundwater Purge		per well	\$64.02	\$0.00
2. Air or Vapors		sample	\$12.80	\$0.00
3. Water Supply Sample or Duplicate		sample	\$23.47	\$0.00
4. Groundwater No Purge or Duplicate or Grab		sample	\$29.88	\$0.00
5. Gauge Well only		sample	\$7.47	\$0.00
6. Sample Below Product		sample	\$12.80	\$0.00
7. Passive Diffusion Bag		sample	\$27.74	\$0.00
8. Field Blank		sample	\$26.25	\$0.00
9. Groundwater (low flow purge)		sample	\$97.10	\$0.00
10. Equipment Blank		sample	\$26.25	\$0.00

FR4100088885

Addendum

Previously Approved: \$54,315.45
 Increase: \$20,103.45
 New Approved Total: \$74,418.90

Project Manager: Caitlin Reilly
 Section Manager: Ashleigh Thrash
 Finance: ST
 Date: 4/21/2021

of pages
 From:
 Mark Keller Caitlin Reilly
 KLM Environmental UST/SCDHEC
 P: 843-870-4285 (803) 896-3807
 F: (803) 896-6241

The SCDHEC reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria.

Facility: 04785 QUICK PANTRY 19

REILLYCM

PO Number: 88885

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
A PLAN PREPARATION					
		1 SITE SPECIFIC WORK PLAN	1.0000	\$160.050	160.05
S REPORT PROJECT MANAGEMENT					
		S REPORT PREP & PROJ. MANAGEMENT	0.1200	\$66,445.450	7,973.45
W AFVR					
		14 AFVR SITE RECONNAISSANCE	1.0000	\$216.870	216.87
		16 AFVR EFFLUENT DISPOSAL	47,000.0000	\$0.470	22,090.00
		17 AFVR MOB - DEMOB	3.0000	\$417.730	1,253.19
		4 96 HOUR EVENT	3.0000	\$13,409.520	40,228.56
		8 OFF GAS TREATMENT 96 HOUR	3.0000	\$832.260	2,496.78
Total Amount					74,418.90



MR PATEL
311 OAKMONTE CIRCLE
GREENWOOD SC 29649

MAY 06 2021



Re: **Tier II Assessment Notice to Proceed**
Quick Pantry 19, 1802 South Main Street, Greenwood, SC
UST Permit #04785; CA #63531 UMW-28427
Release #2 reported March 9, 2021
Site Specific Work Plan Received April 5, 2021
Greenwood County

Dear Mr. Patel:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed and approved the referenced Site-Specific Work Plan (SSWP) submitted by your contractor. All work should be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP), your contractor's Annual Contractor Quality Assurance Plan, and in compliance with all applicable regulations. A copy of the current revision of the UST QAPP is available at scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/

The Tier II Assessment should begin immediately upon receipt of this letter. A monitoring well approval has been enclosed for the monitoring well installation. The above referenced cost agreement number has been approved for the amount shown on the enclosed cost agreement form.

Please note the following changes to the cost agreement and SSWP:

- The attached cost agreement addendum is for the offsite assessment. Now that the onsite assessment has been started and offsite access agreements have been obtained the remainder of the work plan has been approved.
- Line Item F1 and H1 have been cut back from 8,220 feet to 5,000 feet

The SUPERB fund cannot pay for assessments to determine if a release has occurred or the investigation and cleanup of any release other than a release of petroleum or petroleum products from a UST in accordance with R.61-98., The State Underground Petroleum Environmental Response Bank (SUPERB) Site Rehabilitation and Fund Access Regulation. If you encounter anything that may encompass the above scenarios while completing assessment for the release at UST 04785, please reach out to the project manager to coordinate the next course of action. Any work performed prior to the discovery will still be covered under the SUPERB monies.

The Contractor must provide the UST Project Manager with a Project Status Report on a weekly basis via e-mail or notify the UST Project Manager via email 4 days prior to initiation of any site rehabilitation activities. If there are any changes or conflicts with the date(s) of site activities, the UST Project Manager must be contacted within 24 hours of those changes.

The Tier II Report, contractor checklist (QAPP Appendix K), and invoice should be submitted to the UST Division within ninety (90) days of the date of this correspondence. The report submitted at the completion of these activities should include the required information outlined in the UST QAPP.

According to UST Division records, the release at the facility was reported to DHEC on the above referenced date. In accordance with Section 44-2-40(D) of the State Underground Petroleum Environmental Response Bank (SUPERB) Act, you are responsible for the first \$25,000 of site rehabilitation costs. To ensure that costs for the assessment apply to the \$25,000 deductible, costs must be preapproved and a cost agreement provided once the QAPP or SSWP is approved.

Please note that in accordance with R.61-92, Subpart H, Section 280.114, you are required to notify the UST Division by certified mail within ten (10) days of commencing a voluntary or involuntary proceeding in bankruptcy.

Please note that applicable South Carolina certification requirements regarding laboratory services, well installation, and report preparation must be satisfied. Any site rehabilitation activity associated with the UST release must be performed by a DHEC-certified site rehabilitation contractor as required by R.61-98.

The UST Division grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. There can be no spillage or leakage in transport. All investigation-derived waste (IDW) must be properly contained and labeled prior to disposal. IDW should not be stored on-site longer than ninety (90) days. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included as an appendix to the report. If the Chemical of Concern (CoC) concentrations based on laboratory analysis is below Risk-Based Screening Levels (RBSLs), please contact the project manager for approval to dispose of soil and/or groundwater on-site. Transportation or treatment of soil and/or groundwater with concentrations below RBSLs will not be reimbursed by the SUPERB Account or applied towards the deductible.

On all correspondence regarding this site, please reference the above listed UST Permit number. Should you have any questions regarding this correspondence, please feel free to contact me by phone at (803) 898-3807, by fax at (803) 898-0673, or by email at reillycm@dhec.sc.gov.

Sincerely,



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

enc: Approved Cost Agreement (ACA)
Monitoring Well Approval (MWA)

cc: KLM Environmental LLC, PO Box 2704, Goose Creek, South Carolina 29649 (w/ enc)
Mr. Shah Aziz, 311 Oakmonte Circle, Greenwood, South Carolina 29445 (w/ enc)
Technical file (w/ enc)

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
A PLAN PREPARATION					
		3 TIER 11 COMP. PLAN/QAPP APP B	1.0000	\$250.000	250.00
C SURVEY					
		1 COMPREHENSIVE SURVEY	6.0000	\$1,109.680	6,658.08
D MOB/DEMOB					
		1 EQUIPMENT	6.0000	\$1,088.340	6,530.04
		2 PERSONNEL	6.0000	\$451.340	2,708.04
		3 ADVERSE TERRAIN VEHICLE	6.0000	\$533.500	3,201.00
F SOIL BORINGS (DRILLED)					
		1 SOIL BORING/FLD SCR. STANDARD	6,300.0000	\$16.010	100,863.00
H ABANDONMENT					
		1 ABANDONMENT 2" DIA OR LESS	6,300.0000	\$3.310	20,853.00
I WELL INSTALLATION					
		2 WATER TABLE DRILL RIG 2" DIA	480.0000	\$40.550	19,464.00
		3 TELESCOPING	140.0000	\$53.350	7,469.00
J SAMPLE COLLECTION					
		1 GROUND WATER PURGE	34.0000	\$64.020	2,176.68
		3 WATER SUPPLY SAMPLE/ DUPLICATE	2.0000	\$23.470	46.94
		4 GROUNDWATER NO-PURGE/DUPL/GRAB	2.0000	\$29.880	59.76
		8 FIELD BLANK	20.0000	\$26.250	525.00
K ANALYSES					
AIR AIR		25 BTEX+NAPHTHALENE	5.0000	\$230.470	1,152.35
DW DRINKING WATER		14 BTEXNM+1,2 DCA (524.2) WSW	4.0000	\$132.360	529.44
		15 OXYGENATES & ETHANOL 8260B WSW	4.0000	\$97.900	391.60
		16 EDB (504.1) WSW	3.0000	\$84.830	254.49
SOIL SOIL		18 BTEX+NAPHTHALENE	50.0000	\$68.290	3,414.50
		19 SOIL PAH'S	50.0000	\$68.330	3,416.50
		21 TPH-DRO (3550C -8015C)	1.0000	\$42.680	42.68
		22 TPH-GRO (5035B - 8015C)	1.0000	\$38.370	38.37
		23 GRAIN SIZE HYDROMETER	4.0000	\$110.970	443.88
		24 TOTAL ORGANIC CARBON	1.0000	\$32.650	32.65
L AQUIFER CHARACTERIZATION					
		2 SLUG TEST	4.0000	\$203.800	815.20
Q DISPOSAL					
		1 WASTEWATER	500.0000	\$0.600	300.00
		3 SOIL TREATMENT DISPOSAL	10.0000	\$64.020	640.20
		4 DRILLING FLUIDS	500.0000	\$0.450	225.00
S REPORT PROJECT MANAGEMENT					
		S REPORT PREP & PROJ. MANAGEMENT	0.1200	*****	21,964.19
Y WELL REPAIR					
		1 ADDITIONAL COPIES OF REPORT	10.0000	\$53.350	533.50
Total Amount					204,999.09

Re: UST # 04785

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

Fri 5/14/2021 11:52 AM

To: mkeller131@comcast.net <mkeller131@comcast.net>; Vincent, Malayika M. <vincenMM@dhec.sc.gov>

Hey Mark,

Thank you for the update! I will write these down on my calendar. I'm also trying to figure out a day I can come out for another site visit. I'll let you know when I nail down a date.

Thank you and I hope you have a wonderful weekend!

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 [Facebook](#) [Twitter](#)



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

Sent: Thursday, May 13, 2021 5:45 PM

To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>; Vincent, Malayika M. <vincenMM@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 & Malayika,

We will be performing the 96 hour AFVR event at this site May 17th through 21st.

We will also begin probing activities again on May 17th. We have blocked out probing until May 27th at the site. We may need to go back again but we will see where we are at after we get through this part.

Thanks!

Mark

Mark L. Keller, PG
President

 **KLM Environmental, LLC**

PO Box 2704

Goose Creek, SC 29445

Permission Form

Mark Keller <mkeller131@comcast.net>

Wed 4/28/2021 5:06 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. ***

Caitlin

Great meeting up with all of you today. Here is a copy of the permission form Mr. Smith dropped off to me today.

Thanks!

Mark





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

March 31, 2021

Ronney Smith & Brandon Smith
107 Fairway Lakes Road
Greenwood, SC 29649

Mr. Smith & Mr. Smith:


I am writing to you to inform you that remedial efforts to mitigate a release from the Quick Pantry # 19 site located at 1802 S. Main Street in Greenwood, SC have been requested on your property by the South Carolina Department of Health and Environmental Control (SCDHEC). Your property is across Main Street from the Quick Pantry # 19 and is listed as Parcel # 6855-475-219. This remedial effort is in response to a fuel odor reported to the SCDHEC on October 2nd, 2020, followed by a response from the Fire Department on October 23rd, 2020 which detected free phase petroleum in a reported creek/drainage area on your property. The SCDHEC has determined the fuel detected originated from the Quick Pantry # 19. KLM Environmental has been tasked with performing a Tier II Assessment to determine the actual extent of the contaminants as well as provide emergency corrective measures to prevent fuel from entering the creek/drainage canal. KLM is requesting permission to install both temporary and permanent monitoring points and well on the property. In addition, KLM may need to perform excavation activities in order to stop the flow of contaminants. Recovered fuel may need to be stored in drums on site pending disposal as needed. The project is currently in its infancy with many unknowns at this time. However, we can not proceed with the work without permission to enter your property as it is a privately owned parcel.

The SCDHEC Project Manager is Ms. Caitlin Reilly and she can be reached at 803-898-3807 should you have any questions regarding the work. The SCDHEC SUPERB Fund and the responsible party will pay for all costs of any work performed under this directed investigation and remedial effort. There is no cost to you for performing this work. We are requesting permission access the property as needed to install temporary and permanent wells, to conduct remedial efforts which may include excavation and product recovery and may also include removal of trees and forested areas as needed to access the areas needed for sampling, excavation, and product removal along with groundwater remedial efforts. You may wish to have private counsel review this document, but time is of the essence. 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: Ronney Smith Signature: Ronney Smith

Phone Contact: 864-323-1049

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

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: Drilling Audit

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

Mon 5/3/2021 1:11 PM

To: mkeller131@comcast.net <mkeller131@comcast.net>; Vincent, Malayika M. <vincenMM@dhec.sc.gov>

Awesome, thank you Mark!

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 [Facebook](#) [Twitter](#)

From: Mark Keller <mkeller131@comcast.net>**Sent:** Monday, May 3, 2021 11:10 AM**To:** Vincent, Malayika M. <vincenMM@dhec.sc.gov>**Cc:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>**Subject:** Re: UST 04785: Drilling Audit

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

Great having all of you out to see the process. I am working on the maps and will submit those for review so we can work on moving to the next phase.

Please let me know if you need anything or have any questions.

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 May 3, 2021, at 11:04 AM, Vincent, Malayika M. <vincenMM@dhec.sc.gov> wrote:

Good morning Mark,

Thank you for showing us around the mobile lab last week! It was super neat!

Please find the attached drilling audit conducted April 28, 2021. The audit was mostly satisfactory except for the Monitor Well Approval form not on-site. I know this job moved quickly from abatement to field screening and I believe Caitlin sent the form your way after we returned.

Please let me know if you have any questions!

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

Office: (803) 898-0634

Mobile: (803) 922-6026

Fax: (803) 898-0673

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





Drilling/Soil Boring Audit Form
Underground Storage Tank Management Division

RESULTS:

☒ Satisfactory
☐ Issues

Date: 4/28/2021 Project Manager: Carlin Reilly DHEC Field Staff: M. Vincent, C. Reilly, J. Brown
Contractor: KLM Environmental Contractor Field Staff: Mark, Graham, Gary
Drilling Company: KLM Environmental Driller's Name: Mark Keller
Driller's Certification Number: 1554B Same information as ACQAP/SSWP? YES
Site Number: 04785 Site Name: Quick Pantry
Time Arrived at Site: 1025 Time Leaving Site: 1315 Weather Conditions: Sunny ~75°F

Which SB/MW location? TWC Monitoring Well Approval Form on Site? ☐ YES ☒ NO Carlin will check
Type of Rig: Geoprobe 7822DT Bit Size: _____ Auger Size: _____
Method: ☐ Hollow-stem ☐ Solid-stem ☐ Mud-rotary ☐ Air-rotary ☒ Other: Direct-push
Drilling fluids? ☐ YES ☒ NO Type of Sampler: ☐ Hammer-weight ☐ Fall ☐ Other: _____
Depth to Groundwater: _____ Total Depth of Borehole: ~ 25 - 30 ft
Screened Interval: _____ Gravel Pack Size: _____ Gravel Pack Interval: _____
Bentonite Type: _____ Bentonite Interval: _____
Bentonite Hydrated: ☐ YES ☐ NO Length of Time: _____
Geologist's and/or driller's log completed correctly? ☒ YES ☐ NO
IDW contained properly? ☒ YES ☐ NO Labeled properly? ☐ YES ☐ NO
Equipment decontamination observed? ☒ YES ☐ NO take back to office + dispose N/A
Equipment appeared to be decontaminated? ☒ YES ☐ NO
Materials stored and handled properly? ☐ YES ☐ NO
PPE handled, stored, and worn properly? ☐ YES ☒ NO no hard hats steel toes
Soil samples collected and stored properly? ☐ YES ☐ NO N/A
Type of soil sample collected: ☒ Lithology ☒ Screening ☐ Grain Size ☐ Lab Analysis ☐ Other: _____
Signature: [Signature] Date: 4/28/2021

Notes: Arrived onsite @ 1025. Mark gave us a tour of the site (holes where they had already probed) and showed us how they take screen samples + analyze using their mobile GC. Holes were already made at the gas station and we observed them putting in the temporary well casings

Notes (continued): The plan was to move off gas station property once TWs were completed. They have a decon pit set up to decon PVC between TW installations.

Caitlin has the MW approval form → will send it out to Mark.
We watched 2 samples go through mobile GC from across street.

UST DRILLING AND SOIL BORING AUDIT FORM

- Purpose of the form is to record information gathered during an audit of drilling and soil boring activities.
- DHEC UST Project Managers and Field Staff.
- Item-by-item instructions for completing the form.
 - Fill in all Site Information boxes
 - Answer all the questions and record any applicable information in the blanks.
 - Sign and date the form.
 - Record any applicable notes.
- Form is scanned and saved electronically – Record Group Number 169, Retention Schedule 13300

Re: UST #04785 Abatement Actions

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

Fri 5/7/2021 10:25 AM

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

Mark,

Awesome, I'll see if I can get a group together and let you know. And I will next time I promise! I'm a little bit of a chicken and didn't want to mess up the sample haha

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 [Facebook](#) [Twitter](#)

From: Mark Keller <mkeller131@comcast.net>**Sent:** Friday, May 7, 2021 9:38 AM**To:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>**Subject:** Re: UST #04785 Abatement Actions

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

Caitlin

We will be using every day on the probing so feel free to come on out and check it out. You have to run a sample next time!!

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 May 7, 2021, at 9:19 AM, Reilly, Caitlin M. <reillycm@dhec.sc.gov> wrote:

Mark,

Thanks for the update, I'll write those dates on my calendar and see if I can make another trip out there. Will you be using your mobile lab any of those days? I was telling Mihir and Ashleigh about how neat it is and they suggested I bring a couple other project managers out with me the next time so they can see how it works as well, we don't ever get to see the lab stuff.

Also, I'll get with Ashleigh on Monday to see if I need to fix that cost agreement and get an updated one sent out, she's out of the office today or I'd do it now. Let me know if you need anything before then. Thank you and I hope you have a great weekend!

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 [Facebook](#) [Twitter](#)

From: Mark Lee Keller <mkeller131@comcast.net>
Sent: Thursday, May 6, 2021 12:52 PM
To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Subject: RE: UST #04785 Abatement Actions

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

We will need the wooded area across the street bulldozed with multiple lines to allow access for the drill rig. I spoke with the property owner and he has agreed to allow that, and has offered to perform the work. We had included additional equipment mobilizations for that to occur in the work plan, although I mislabeled them under Item P (subsequent survey) instead of miscellaneous (Item R). He will do all the cleaning of access lines on 25 foot intervals for 2 equipment mobilizations. It will take multiple mobilizations to get the work done but he was satisfied with two. I agreed and scheduled him to do the work. I wanted to let you know that was occurring. My guys are meeting him out there today to make sure he knows what we need done. This may not be all the clearing we need depending on if this goes onto other properties but it should be the bulk of it.

We have the second phase of probing scheduled to begin May 17th through May 21st, then again May 24th through May 27th. We may need more days but that is all I have on the schedule for now. I called in all utility locates today since we have a fiber optic line running through that property and a very large water main. I am sure they won't show up to mark it as usual. Let me know if you need anything.

Thanks!!

Mark

Mark L. Keller, PG
President

 **KLM Environmental, LLC**

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

From: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Sent: Wednesday, May 5, 2021 3:19 PM
To: mkeller131@comcast.net
Subject: Re: UST #04785 Abatement Actions

Mark,

Here's a copy of the offsite NTP letter and the updated cost agreement, I'll get a hard copy in the mail this afternoon. I got the footage changed from 8,000 to 5,000 like we discussed yesterday, I believe that was the only change that was made. Please let me know if we need to make any changes to it.

Thanks 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 [Facebook](#) [Twitter](#)




From: Mark Lee Keller <mkeller131@comcast.net>
Sent: Tuesday, May 4, 2021 5:22 PM
To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Subject: RE: UST #04785 Abatement Actions

*** Caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***
No problem! We have some time before we can get under way. Take your time.

Mark

Mark L. Keller, PG
President

 **KLM Environmental, LLC**

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

From: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Sent: Tuesday, May 4, 2021 5:02 PM
To: mkeller131@comcast.net
Cc: mikepatel8905@yahoo.com; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com; Ariail, Ryan D. <AriailRD@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>
Subject: Re: UST #04785 Abatement Actions

Mark,

I spoke to soon, our finance department is already gone for the day so I won't be able to send you a copy of the NTP and cost agreement until the morning. I'm sorry about that, I didn't realize what time it was, today has been flying by!

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 [Facebook](#) [Twitter](#)



From: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Sent: Tuesday, May 4, 2021 3:59 PM
To: mkeller131@comcast.net <mkeller131@comcast.net>
Cc: mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>
Subject: Re: UST #04785 Abatement Actions

Hey Mark,

Sorry it's taken me a bit to get back to you about this, I had some time this afternoon to look over the attachments. I'm working on the NTP letter for the next phase now. As soon as I get it done I'll send you over a copy and drop one in the mail as well.

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 [Facebook](#) [Twitter](#)



From: Mark Lee Keller <mkeller131@comcast.net>
Sent: Monday, May 3, 2021 4:47 PM
To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Cc: mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>
Subject: RE: UST #04785 Abatement Actions

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

Attached is the map and the data table for what we have completed thus far on the delineation. The plume appears much larger at the top of this crest than I anticipated. Also, free product was thicker on the side away from the big drop off to the east which I also did not expect. We hit refusal on a couple holes and we think the rock is around 35-40 feet at the top of the hill where this store is located, but we also tapped out very shallow behind the store at around 20 feet below land surface.

I also inspected all of the containment booms on Friday before we left the site. No saturation was noted in any of the booms. I walked the entire length of the creek down to the housing project and no odors were detected. I also did not detect any odor from the manhole you and Corie hand augured near the week before last. While I am happy the odors were not present, I would like to know why they weren't since I didn't note any saturation in the booms. Perhaps the lack of rain has let the issue rest for the time being.

So this is where we are currently. We have received the permission form from Mr. Smith for the property across the street. We have secured what we believe is all the properties we need currently but I will send additional access agreements to the property owner where the SCDHEC is located as probe points 15, 16, and 17 showed contaminants. I will also attempt to gain access on the former Greenwood Mills property in case we cannot get a clean edge on the Smith site.

Please advise on approval of the next phase so we can begin the utility locates, property owner notifications, and material orders.

Thanks

Mark

Mark L. Keller, PG
President

 **KLM Environmental, LLC**

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

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

Sent: Thursday, April 29, 2021 11:51 AM

To: mkeller131@comcast.net

Cc: mikepatel8905@yahoo.com; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com; Ariail, Ryan D. <AriailRD@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>

Subject: Re: UST #04785 Abatement Actions

Mark,

Here is a copy of the MWA form, it looks like I did forget to make one up when I sent over the Tier II NTP letter, so I'll be sure to get a hard copy out in the mail today.

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 [Facebook](#) [Twitter](#)



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

Sent: Wednesday, April 28, 2021 5:13 PM

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

Cc: mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>

Subject: Re: UST #04785 Abatement Actions

Mark,

Thank you for sending me a copy of Mr. Smith's access agreement and for showing us around today on site. It was so neat to see your lab set up and run some samples, none of have seen one before. Also, I don't seem to have a MWA form on file for you so I will get one made up and over to you first thing in the morning, I'm sorry about that!

Thanks again,
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 [Facebook](#) [Twitter](#)



From: Mark Lee Keller <mkeller131@comcast.net>
Sent: Monday, April 26, 2021 7:15 PM
To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Cc: mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>
Subject: RE: UST #04785 Abatement Actions

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

Thank you for that. I have this one from 1923 that shows some more detail for the text. You can find it in better detail here as Map # 24 from the Library of Congress. I was hoping the text would show what the structure was used for behind the fertilizer facility where we found the staining but it only notes it as a single story structure in wood frame (yellow indicates wood frame, red is brick). The fertilizer plant was 3 stories same construction.

https://www.loc.gov/item/sanborn08145_008/

Mark L. Keller, PG
President

 KLM Environmental, LLC

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

From: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Sent: Monday, April 26, 2021 4:42 PM
To: mkeller131@comcast.net
Cc: mikepatel8905@yahoo.com; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com; Ariail, Ryan D. <AriailRD@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>
Subject: Re: UST #04785 Abatement Actions

Mark,

It looks like the map didn't attach, here is the copy, sorry about that!

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 [Facebook](#) [Twitter](#)



From: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Sent: Monday, April 26, 2021 4:33 PM
To: mkeller131@comcast.net
Cc: mikepatel8905@yahoo.com <mikepatel8905@yahoo.com>; Mehta, Mihir <mehtam@dhec.sc.gov>; shahpetroinc@yahoo.com <shahpetroinc@yahoo.com>; Ariail, Ryan D. <AriailRD@dhec.sc.gov>; Thrash, Ashleigh <thrasham@dhec.sc.gov>
Subject: Re: UST #04785 Abatement Actions

Mark,

Thank you for talking with us this afternoon, here is a copy of the 1932 Sanborn map for the old Fertilizer and Concrete blending facility. We've been told by our SARRs department that usually you would run into high levels of metals, pesticides, and lead with types of sites so if you find anything like that during your assessment, please let me know. I have cleared my schedule to come meet with you on site this Wednesday. If you need anything in the meantime, just give me a call or shoot me an email.

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 [Facebook](#) [Twitter](#)



MR PATEL
311 OAKMONTE CIRCLE
GREENWOOD SC 29649

Re: **Tier II Assessment Notice to Proceed**
Quick Pantry 19, 1802 South Main Street, Greenwood, SC
UST Permit #04785; CA #63531 UMW-28427
Release #2 reported March 9, 2021
Site Specific Work Plan Received April 5, 2021
Greenwood County

Dear Mr. Patel:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed and approved the referenced Site-Specific Work Plan (SSWP) submitted by your contractor. All work should be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP), your contractor's Annual Contractor Quality Assurance Plan, and in compliance with all applicable regulations. A copy of the current revision of the UST QAPP is available at scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/

The Tier II Assessment should begin immediately upon receipt of this letter. A monitoring well approval has been enclosed for the monitoring well installation. The above referenced cost agreement number has been approved for the amount shown on the enclosed cost agreement form.

Please note the following changes to the cost agreement and SSWP:

- The attached cost agreement addendum is for the offsite assessment. Now that the onsite assessment has been started and offsite access agreements have been obtained the remainder of the work plan has been approved.
- Line Item F1 and H1 have been cut back from 8,220 feet to 5,000 feet

The SUPERB fund cannot pay for assessments to determine if a release has occurred or the investigation and cleanup of any release other than a release of petroleum or petroleum products from a UST in accordance with R.61-98., The State Underground Petroleum Environmental Response Bank (SUPERB) Site Rehabilitation and Fund Access Regulation. If you encounter anything that may encompass the above scenarios while completing assessment for the release at UST 04785, please reach out to the project manager to coordinate the next course of action. Any work performed prior to the discovery will still be covered under the SUPERB monies.

The Contractor must provide the UST Project Manager with a Project Status Report on a weekly basis via e-mail or notify the UST Project Manager via email 4 days prior to initiation of any site rehabilitation activities. If there are any changes or conflicts with the date(s) of site activities, the UST Project Manager must be contacted within 24 hours of those changes.

The Tier II Report, contractor checklist (QAPP Appendix K), and invoice should be submitted to the UST Division within ninety (90) days of the date of this correspondence. The report submitted at the completion of these activities should include the required information outlined in the UST QAPP.

According to UST Division records, the release at the facility was reported to DHEC on the above referenced date. In accordance with Section 44-2-40(D) of the State Underground Petroleum Environmental Response Bank (SUPERB) Act, you are responsible for the first \$25,000 of site rehabilitation costs. To ensure that costs for the assessment apply to the \$25,000 deductible, costs must be preapproved and a cost agreement provided once the QAPP or SSWP is approved.

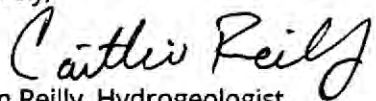
Please note that in accordance with R.61-92, Subpart H, Section 280.114, you are required to notify the UST Division by certified mail within ten (10) days of commencing a voluntary or involuntary proceeding in bankruptcy.

Please note that applicable South Carolina certification requirements regarding laboratory services, well installation, and report preparation must be satisfied. Any site rehabilitation activity associated with the UST release must be performed by a DHEC-certified site rehabilitation contractor as required by R.61-98.

The UST Division grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. There can be no spillage or leakage in transport. All investigation-derived waste (IDW) must be properly contained and labeled prior to disposal. IDW should not be stored on-site longer than ninety (90) days. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included as an appendix to the report. If the Chemical of Concern (CoC) concentrations based on laboratory analysis is below Risk-Based Screening Levels (RBSLs), please contact the project manager for approval to dispose of soil and/or groundwater on-site. Transportation or treatment of soil and/or groundwater with concentrations below RBSLs will not be reimbursed by the SUPERB Account or applied towards the deductible.

On all correspondence regarding this site, please reference the above listed UST Permit number. Should you have any questions regarding this correspondence, please feel free to contact me by phone at (803) 898-3807, by fax at (803) 898-0673, or by email at reillycm@dhec.sc.gov.

Sincerely,



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

enc: Approved Cost Agreement (ACA)
Monitoring Well Approval (MWA)

cc: KLM Environmental LLC, PO Box 2704, Goose Creek, South Carolina 29649 (w/ enc)
Mr. Shah Aziz, 311 Oakmonte Circle, Greenwood, South Carolina 29445 (w/ enc)
Technical file (w/ enc)

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
A PLAN PREPARATION					
		3 TIER 11 COMP. PLAN/QAPP APP B	1.0000	\$250.000	250.00
C SURVEY					
		1 COMPREHENSIVE SURVEY	6.0000	\$1,109.680	6,658.08
D MOB/DEMOB					
		1 EQUIPMENT	6.0000	\$1,088.340	6,530.04
		2 PERSONNEL	6.0000	\$451.340	2,708.04
		3 ADVERSE TERRAIN VEHICLE	6.0000	\$533.500	3,201.00
F SOIL BORINGS (DRILLED)					
		1 SOIL BORING/FLD SCR. STANDARD	6,300.0000	\$16.010	100,863.00
H ABANDONMENT					
		1 ABANDONMENT 2" DIA OR LESS	6,300.0000	\$3.310	20,853.00
I WELL INSTALLATION					
		2 WATER TABLE DRILL RIG 2" DIA	480.0000	\$40.550	19,464.00
		3 TELESCOPING	140.0000	\$53.350	7,469.00
J SAMPLE COLLECTION					
		1 GROUND WATER PURGE	34.0000	\$64.020	2,176.68
		3 WATER SUPPLY SAMPLE/ DUPLICATE	2.0000	\$23.470	46.94
		4 GROUNDWATER NO-PURGE/DUPL/GRAB	2.0000	\$29.880	59.76
		8 FIELD BLANK	20.0000	\$26.250	525.00
K ANALYSES					
	AIR AIR	25 BTEX+NAPHTHALENE	5.0000	\$230.470	1,152.35
	DW DRINKING WATER	14 BTEXNM+1,2 DCA (524.2) WSW	4.0000	\$132.360	529.44
		15 OXYGENATES & ETHANOL 8260B WSW	4.0000	\$97.900	391.60
		16 EDB (504.1) WSW	3.0000	\$84.830	254.49
	SOIL SOIL	18 BTEX+NAPHTHALENE	50.0000	\$68.290	3,414.50
		19 SOIL PAH'S	50.0000	\$68.330	3,416.50
		21 TPH-DRO (3550C -8015C)	1.0000	\$42.680	42.68
		22 TPH-GRO (5035B - 8015C)	1.0000	\$38.370	38.37
		23 GRAIN SIZE HYDROMETER	4.0000	\$110.970	443.88
		24 TOTAL ORGANIC CARBON	1.0000	\$32.650	32.65
L AQUIFER CHARACTERIZATION					
		2 SLUG TEST	4.0000	\$203.800	815.20
Q DISPOSAL					
		1 WASTEWATER	500.0000	\$0.600	300.00
		3 SOIL TREATMENT DISPOSAL	10.0000	\$64.020	640.20
		4 DRILLING FLUIDS	500.0000	\$0.450	225.00
S REPORT PROJECT MANAGEMENT					
		S REPORT PREP & PROJ. MANAGEMENT	0.1200	*****	21,964.19
Y WELL REPAIR					
		1 ADDITIONAL COPIES OF REPORT	10.0000	\$53.350	533.50
Total Amount					204,999.09

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-1A	4/27/21	GW	20	Dry	Dry	Dry	Dry	Dry	20 Min
GP-1B	4/27/21	GW	25	--	--	--	--	--	
GP-2	4/27/21	GW	30	--	--	--	--	--	
GP-3	4/27/21	GW	30	--	--	--	--	--	
GP-4	4/27/21	GW	25	87.22	176.69	--	89.92	--	NTA
GP-5	4/27/21	GW	20	1774.97	1977.18	--	5252.13	584.02	NTA
GP-6	4/28/21	GW	30	--	--	--	--	90.66	
GP-7	4/28/21	GW	25	621.29	1352.27	--	961.05	1045.93	NTA
GP-8	4/28/21	GW	20	555.18	3047.98	--	2269.31	1790.01	NTA
GP-9	4/28/21	GW	25	36.10	77.22	--	--	--	
GP-10	4/28/21	GW	25	--	--	--	--	209.71	
GP-11	4/28/21	GW	25	--	167.10	--	136.94	646.09	NTA
GP-12	4/28/21	GW	25	--	88.11	--	57.20	--	
GP-13	4/28/21	GW	20	2733.46	3991.39	--	3572.36	2967.44	NTA
GP-14	4/28/21	GW	20	2821.33	3753.50	--	1665.61	3026.88	NTA
GP-15	4/29/21	GW	20	73.71	412.90	--	258.17	155.38	NTA
GP-16	4/29/21	GW	20	59.29	197.61	--	50.80	--	
GP-17	4/29/21	GW	20	--	169.89	--	55.84	--	
GP-18	4/29/21	GW	35	31.39	62.46	--	--	--	
GP-19	4/29/21	GW	40	--	49.77	--	--	--	
GP-20	4/29/21	GW	41.5	--	--	--	--	--	refusal
GP-21	4/29/21	GW	20	1289.63	3506.85	--	3019.88	3142.14	NTA
GP-22	4/29/21	GW	20	2121.58	3096.41	--	1588.78	3151.78	NTA
GP-23	4/29/21	GW	20	2850.38	5284.74	--	6160.42	***	NTA
GP-24	4/29/21	GW	20	3231.66	4151.91	--	4442.42	3073.59	NTA
GP-25	4/29/21	GW	20	2239.09	3501.06	--	3821.55	3651.06	NTA
GP-26	4/29/21	GW	20	1425.07	2469.25	--	1077.82	526.78	NTA
GP-27	4/29/21	GW	20	--	--	--	--	--	--
GP-28	4/29/21	GW	23	--	--	--	--	--	refusal
GP-29	4/29/21	GW	25	--	--	--	--	--	
GP-30	4/30/21	GW	30	679.19	1212.78	--	775.75	1157.53	NTA
GP-31	4/30/21	GW	34	938.68	1500.64	--	874.57	1737.77	refusal
GP-32	4/30/21	GW	35	103.62	208.15	--	55.05	141.06	
GP-33	4/30/21	GW	40	75.02	157.14	--	41.69	163.92	
GP-34	4/30/21	GW	22	--	--	--	--	--	refusal
GP-35	4/30/21	GW	19	Dry	Dry	Dry	Dry	Dry	refusal
SB-1	4/27/21	Soil	35						See Logs
TW-1	4/27/21	GW	20	FP	FP	FP	FP	FP	14.45-14.48
TW-2	4/27/21	GW	20	970.70	1655.94	--	1839.06	70.77	NTA
TW-3	4/27/21	GW	20	FP	FP	FP	FP	FP	13.40-14.18
TW-4	4/27/21	GW	20	2427.50	3337.58	--	3745.39	821.16	NTA
TW-5	4/27/21	GW	20	1358.42	5275.83	--	5804.82	3913.24	NTA
TW-6	4/28/21	GW	20	3433.29	4354.78	--	6547.08	383.26	NTA
TW-7	4/28/21	GW	20	FP	FP	FP	FP	FP	14.05-14.06
TW-8	4/28/21	GW	20	3588.66	5799.72	--	5914.86	4062.52	NTA
TW-9	4/28/21	GW	20	3193.12	4538.58	--	5316.66	4484.82	NTA
TW-10	4/28/21	GW	20	FP	FP	FP	FP	FP	14.92-14.93

***contaminant clearly visible on chromatograph but machine failed to identify.

TABLE 1
Probe Delamination Data
Quick Pantry #19
Greenwood, SC

Sample #	Date	Matrix	Depth	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	MTBE (ppm)	Comment
BBH	4/27/21	GW	20	6	1580	769	18000	48	20 Min
GP-1A	4/27/21	GW	25	---	---	---	---	---	---
GP-1B	4/27/21	GW	30	---	---	---	---	---	---
GP-2	4/27/21	GW	30	---	---	---	---	---	---
GP-3	4/27/21	GW	30	---	---	---	---	---	---
GP-4	4/27/21	GW	25	87.22	176.68	---	89.92	---	NTA
GP-5	4/27/21	GW	20	1774.97	1872.18	---	5252.13	554.02	NTA
GP-6	4/28/21	GW	30	---	---	---	---	90.66	---
GP-7	4/28/21	GW	25	621.29	1352.27	---	1601.06	1545.93	NTA
GP-8	4/28/21	GW	20	568.18	3241.99	---	2066.31	1790.01	NTA
GP-9	4/28/21	GW	25	36.10	77.22	---	---	---	---
GP-10	4/28/21	GW	25	---	167.10	---	---	209.71	---
GP-11	4/28/21	GW	25	---	38.11	---	57.20	648.09	NTA
GP-12	4/28/21	GW	25	---	---	---	---	---	---
GP-13	4/28/21	GW	20	2733.46	3091.38	---	5572.56	2967.44	NTA
GP-14	4/28/21	GW	20	2021.33	3753.50	---	1965.61	3026.88	NTA
GP-15	4/28/21	GW	20	73.71	412.60	---	258.17	155.38	NTA
GP-16	4/28/21	GW	20	58.29	197.0	---	50.80	---	---
GP-17	4/28/21	GW	20	---	169.89	---	55.84	---	---
GP-18	4/28/21	GW	35	31.39	32.46	---	---	---	---
GP-19	4/28/21	GW	40	---	62.77	---	---	---	---
GP-20	4/29/21	GW	41.5	---	---	---	---	---	refusal
GP-21	4/28/21	GW	20	1289.63	3506.85	---	3015.85	3142.14	NTA
GP-22	4/28/21	GW	20	2121.58	3096.41	---	1580.19	3131.78	NTA
GP-23	4/28/21	GW	20	2850.30	5284.74	---	6100.42	---	NTA
GP-24	4/28/21	GW	20	3231.66	4151.91	---	4442.42	3073.59	NTA
GP-25	4/29/21	GW	20	2236.09	3501.08	---	3821.55	3681.08	NTA
GP-26	4/28/21	GW	20	1425.07	2468.29	---	1377.82	526.78	NTA
GP-27	4/28/21	GW	20	---	---	---	---	---	---
GP-28	4/28/21	GW	23	---	---	---	---	---	refusal
GP-29	4/28/21	GW	25	---	---	---	---	---	---
GP-30	4/28/21	GW	30	676.19	1212.78	---	775.75	1157.53	NTA
GP-31	4/28/21	GW	34	938.88	1500.64	---	874.57	1737.77	refusal
GP-32	4/28/21	GW	35	103.82	208.15	---	55.05	141.06	---
GP-33	4/28/21	GW	40	78.02	157.14	---	41.89	153.82	---
GP-34	4/28/21	GW	42	---	---	---	---	---	refusal
GP-35	4/28/21	GW	19	Dry	Dry	Dry	Dry	Dry	refusal
SS-1	4/27/21	Soil	35	FP	FP	FP	FP	FP	Soil Log
TW-1	4/27/21	GW	20	970.70	1555.94	---	1830.05	70.77	NTA
TW-2	4/27/21	GW	20	FP	FP	FP	FP	FP	12.40-14.14
TW-3	4/27/21	GW	20	2437.80	3337.58	---	3745.59	821.18	NTA
TW-4	4/27/21	GW	20	1568.42	5275.83	---	5004.82	3913.24	NTA
TW-5	4/27/21	GW	20	3432.29	4354.78	---	6047.08	383.28	NTA
TW-6	4/28/21	GW	20	FP	FP	FP	FP	FP	14.05-14.34
TW-7	4/28/21	GW	20	3588.86	5799.72	---	5914.89	4062.52	NTA
TW-8	4/28/21	GW	20	3183.12	4538.88	---	5318.86	4484.82	NTA
TW-9	4/28/21	GW	20	FP	FP	FP	FP	FP	14.02-14.3

LEGEND

- GP1 SHALLOW PROBE LOCATION
- DGP1 DEEP PROBE LOCATION
- TW1 TEMPORARY WELL LOCATION
- MW1 MONITORING WELL LOCATION
- SB1 CONTINUOUS SOIL CORE

ESTIMATED CURRENT EXTENT

ESTIMATED FUTURE EXTENT



FIGURE 2

NEAR SITE PROBING MAP
QUICK PANTRY #19
GREENWOOD, SC SITE ID# 04785



Monitoring Well Approval

Approval is hereby granted to: KLM Environmental, LLC
(on behalf of): Mike Patel, Bahuchar Mata LLC
Facility: Quick Pantry 19, 1802 S Main Street, Greenwood, SC
UST Permit Number: 04785
County: Greenwood

This approval is for the installation of 38 temporary groundwater monitoring wells. The monitoring wells are to be installed in the approved locations. Monitoring wells are to be installed following the South Carolina Well Standards, R.61-71, and the applicable guidance documents.

Please note that R.61-71 requires the following:

1. All wells shall be drilled, constructed, and abandoned by a South Carolina certified well driller per R.61-71.D.1.
2. All monitoring wells shall be labeled as required by R.61-71.H.2.c.
3. A Water Well Record Form or other form provided or approved by the Division shall be completed and submitted to the Division within 30 days after well completion or abandonment unless another schedule has been approved by the Division. The form should contain the "as-built" construction details and all other information required by R.61-71.H.1.f
4. All analytical data and water levels obtained from each monitoring well shall be submitted to the Division within 30 days of receipt of laboratory results unless another schedule has been approved by the Division as required by R.61-71.H.1.d.
5. If any of the information provided to the Division changes, notification to Caitlin Reilly the project manager (tel: (803) 898-3807 or e-mail: reillycm@scdhec.sc.gov) shall be provided a minimum of twenty-four (24) hours prior to well construction as required by R.61-71.H.1.a.
6. All temporary monitoring wells shall be abandoned within 5 days of borehole completion using appropriate methods as required by R.61-71.H.4.c. All other wells shall be properly developed per R.61-71.H.2.d.
7. Division approval is required prior to abandonment of all monitoring wells as required by R.61-71.H.1.a.

This approval is pursuant to the provisions of Section 44-55-40 of the 1976 South Carolina Code of Laws and R.61-71 of the South Carolina Well Standards and Regulations, dated May 27, 2016. A copy of this approval should be on the site during well installation.

Date of Issuance: April 28, 2021

Approval #: UMW - 28427

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

24

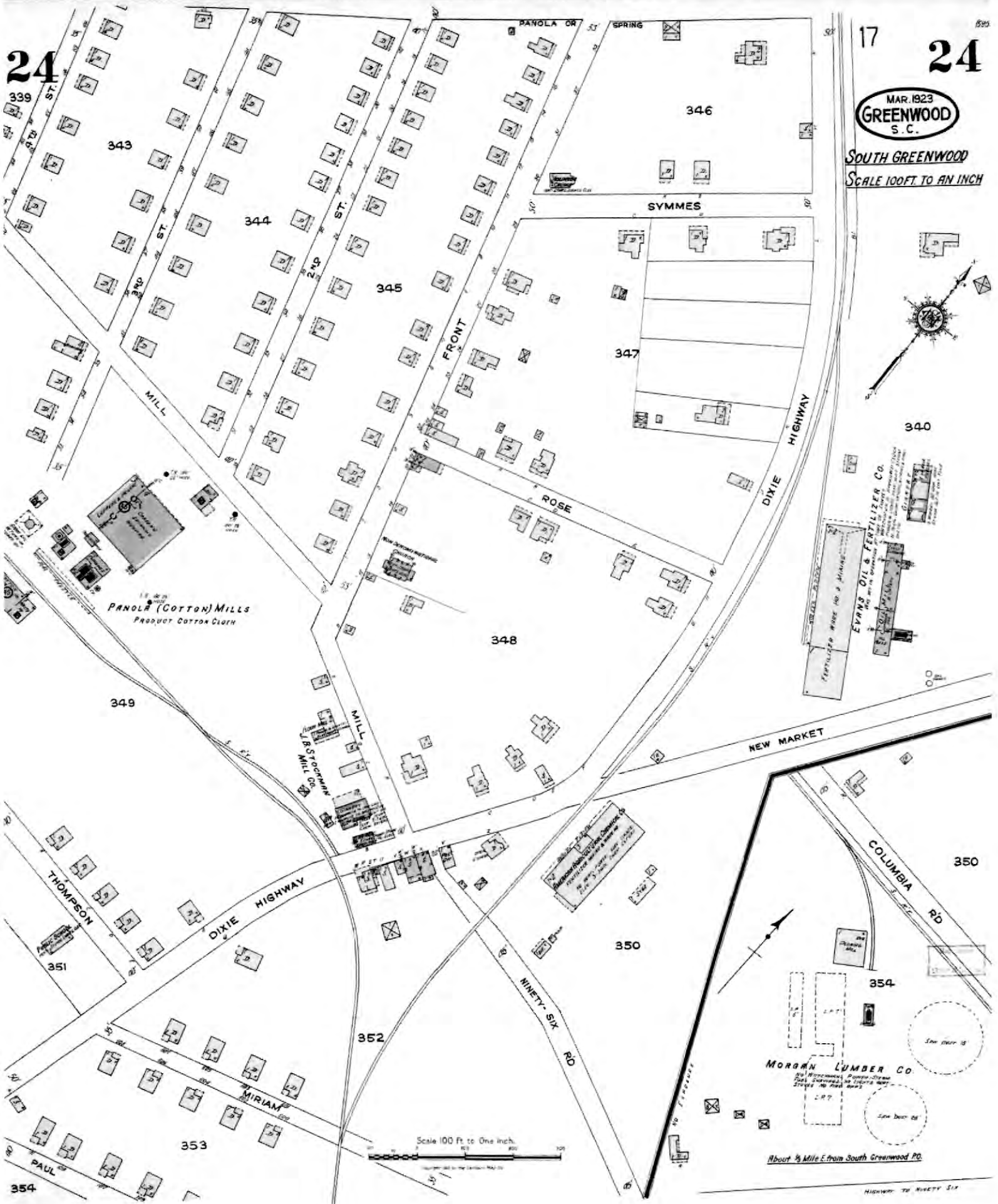
339

17

24

MAR. 1923
GREENWOOD
S. C.

SOUTH GREENWOOD
SCALE 100 FT. TO AN INCH



PANOLA (COTTON) MILLS
PRODUCT COTTON CLOTH

SYMMES

FRONT

ROSE

NEW MARKET

COLUMBIA RD

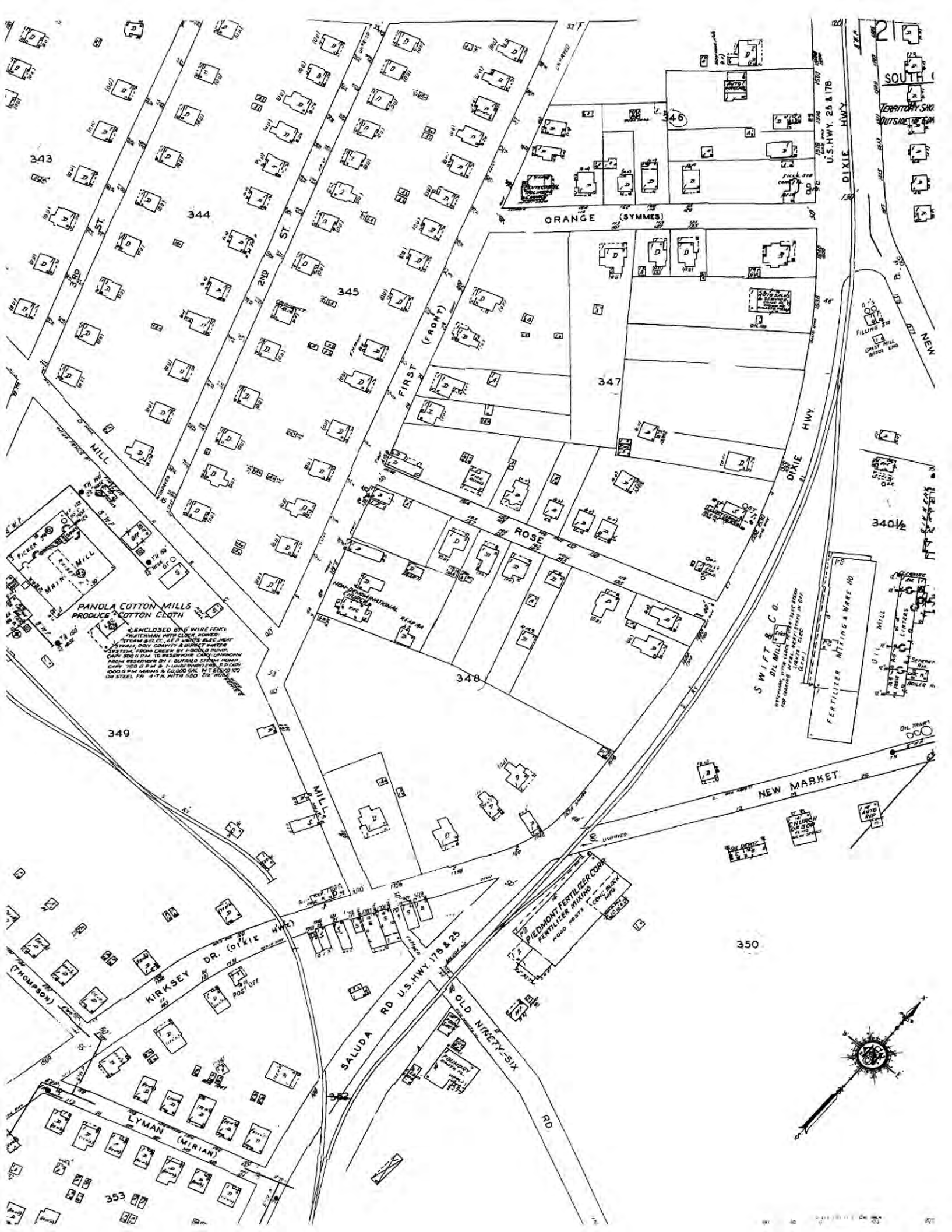
NINETY-SIX RD

MORGAN LUMBER CO.

About 1/2 Mile E. from South Greenwood P.O.

Scale 100 Ft. to One inch.

Highway to Ninety Six





Monitoring Well Approval

Approval is hereby granted to: KLM Environmental, LLC
(on behalf of): Mike Patel, Bahuchar Mata LLC
Facility: Quick Pantry 19, 1802 S Main Street, Greenwood, SC
UST Permit Number: 04785
County: Greenwood

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1. All wells shall be drilled, constructed, and abandoned by a South Carolina certified well driller per R.61-71.D.1.
2. All monitoring wells shall be labeled as required by R.61-71.H.2.c.
3. A Water Well Record Form or other form provided or approved by the Division shall be completed and submitted to the Division within 30 days after well completion or abandonment unless another schedule has been approved by the Division. The form should contain the "as-built" construction details and all other information required by R.61-71.H.1.f
4. All analytical data and water levels obtained from each monitoring well shall be submitted to the Division within 30 days of receipt of laboratory results unless another schedule has been approved by the Division as required by R.61-71.H.1.d.
5. If any of the information provided to the Division changes, notification to Caitlin Reilly the project manager (tel: (803) 898-3807 or e-mail: reillycm@scdhec.sc.gov) shall be provided a minimum of twenty-four (24) hours prior to well construction as required by R.61-71.H.1.a.
6. All temporary monitoring wells shall be abandoned within 5 days of borehole completion using appropriate methods as required by R.61-71.H.4.c. All other wells shall be properly developed per R.61-71.H.2.d.
7. Division approval is required prior to abandonment of all monitoring wells as required by R.61-71.H.1.a.

This approval is pursuant to the provisions of Section 44-55-40 of the 1976 South Carolina Code of Laws and R.61-71 of the South Carolina Well Standards and Regulations, dated May 27, 2016. A copy of this approval should be on the site during well installation.

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Approval #: UMW - 28427

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

CD's Information

Date Received: 6/4/21

Permit Number: # 04785

Project Manager: Caitlin Reilly

Contractor: KLM Environmental

Description: AFVR Rpt

Docket Number: 321 Initials: _____

Scanned by: _____

Verified by: _____



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

June 1, 2021

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

Re: Quick Pantry # 19
Permit # 04785 CA # 63514

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 May 17th through May 21st 2021 at the Quick Pantry # 19 site. The 96-hour AFVR event was conducted on the tank pit well now referred to as MW-1. The well was gauged before and after each event. Results from the 96-hour AFVR event are provided on the attached tables. A total of 185.88 gallons of petroleum were recovered as vapor and 86 gallons of free product was recovered, with 2,944 gallons of contaminated water recovered during this event. Thus far, a total of 745 gallons of free product, 519.47 gallons of product as vapor, and a total of 9,650 gallons of contaminated ground water have been recovered during only three 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 three AFVR events conducted at the site, and the very widespread contamination already known from the initial rounds of site screening during the ongoing 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

5/17/2021 - 5/21/2021
Quick Pantry #19 (USDHEC UST #04785)

Date	Time	Stinger Depth (ft)				Recovery Rate					Air Emissions Concentrations (ppm)		
		MW-1				Vacuum (In. Hg)	Air Flow (cfm)	Temp (F)	Stack Vel. (mph)	Humidity	PID Pre-Treatment	PID Post-Treatment	% Mass Reduction
5/17/2021	12:00	14.37				-22	116.0	96.2	15.1	69.2	7496	81.3	98.92
5/17/2021	12:30	15				-22	122.2	109.8	15.9	62.1	9641	104.7	98.91
5/17/2021	13:00	16				-22	112.9	121.4	14.7	58.8	12437	136.2	98.90
5/17/2021	13:30	17				-22	118.3	119.8	15.4	56.5	15000	162.3	98.92
5/17/2021	14:00	18				-22	116.8	124.5	15.2	59.3	15000	170.9	98.86
5/17/2021	14:30	19				-22	114.5	120.1	14.9	63.2	15000	182.3	98.78
5/17/2021	15:00	20				-22	118.3	122.9	15.4	57.2	15000	180.7	98.80
5/17/2021	15:30	21				-22	113.7	125.7	14.8	61.8	15000	177.5	98.82
5/17/2021	16:00	22				-22	120.6	126.2	15.7	66.3	15000	183.1	98.78
5/17/2021	16:30	23				-22	116.0	124.3	15.1	63.9	15000	192.4	98.72
5/17/2021	17:00	24				-22	112.2	121.8	14.6	64.7	15000	202.4	98.65
5/17/2021	17:30	25				-22	118.3	119.5	15.4	60.2	15000	197.7	98.68
5/17/2021	18:00	26				-22	114.5	120.1	14.9	62.8	15000	213.6	98.58
5/17/2021	18:30	27				-22	112.2	118.2	14.6	58.7	15000	203.1	98.65
5/17/2021	19:00	28				-22	116.8	121.5	15.2	63.5	15000	199.9	98.67
5/17/2021	19:30	28.5				-22	114.5	119.7	14.9	65.3	15000	195.6	98.70
5/17/2021	20:00	28.5				-22	119.1	118.5	15.5	68.1	15000	201.3	98.66
5/17/2021	21:00	28.5				-22	116.0	120.7	15.1	62.5	15000	190.5	98.73
5/17/2021	22:00	28.5				-22	121.4	122.2	15.8	58.2	15000	196.9	98.69
5/17/2021	23:00	28.5				-22	116.8	119.4	15.2	60.3	15000	207.4	98.62
5/17/2021	0:00	28.5				-22	119.1	117.3	15.5	63.7	15000	226.1	98.49
5/18/2021	8:00	28.5				-22	116.0	115.9	15.1	65.3	15000	232.8	98.45
5/18/2021	9:00	28.5				-22	117.5	118.2	15.3	62.8	15000	236.5	98.42
5/18/2021	10:00	28.5				-22	113.7	117.5	14.8	63.8	15000	228.2	98.48
5/18/2021	11:00	28.5				-22	117.5	118.9	15.3	67.2	15000	229.9	98.47
5/18/2021	12:00	28.5				-22	111.4	121.4	14.5	71.4	15000	218.4	98.54
5/18/2021	13:00	28.5				-22	116.8	119.7	15.2	65.9	15000	212.7	98.58
5/18/2021	14:00	28.5				-22	114.5	116.5	14.9	69.3	15000	219.2	98.54
5/18/2021	16:00	28.5				-22	119.8	115.8	15.6	67.8	15000	214.1	98.57
5/18/2021	18:00	28.5				-22	116.8	117.8	15.2	62.6	15000	193.7	98.71
5/18/2021	20:00	28.5				-22	112.2	119.5	14.6	66.1	15000	187.3	98.75
5/18/2021	22:00	28.5				-22	118.3	118.7	15.4	63.7	14638	194.8	98.67
5/18/2021	0:00	28.5				-22	109.9	112.7	14.3	64.3	13481	173.4	98.71
5/19/2021	8:00	28.5				-22	114.5	117.1	14.9	67.9	14176	175.7	98.76
5/19/2021	10:00	28.5				-21	117.5	120.7	15.3	62.4	13628	177.1	98.70
5/19/2021	12:00	28.5				-21	114.5	123.5	14.9	66.1	13397	170.5	98.73
5/19/2021	14:00	28.5				-21	112.2	120.3	14.6	69.7	13172	163.8	98.76
5/19/2021	16:00	28.5				-21	117.5	124.9	15.3	68.2	12845	169.2	98.68
5/19/2021	18:00	28.5				-21	113.7	122.6	14.8	72.8	13267	171.6	98.71
5/19/2021	20:00	28.5				-21	119.1	119.4	15.5	73.4	12931	166.3	98.71
5/19/2021	22:00	28.5				-22	116.8	120.1	15.2	70.1	12989	162.9	98.75
5/19/2021	0:00	28.5				-22	112.9	118.9	14.7	65.7	12653	163.3	98.71
5/20/2021	8:00	28.5				-22	117.5	116.2	15.3	67.3	10715	147.7	98.62
5/20/2021	10:00	28.5				-22	119.1	119.5	15.5	64.1	11286	153.1	98.64
5/20/2021	12:00	28.5				-22	110.6	121.8	14.4	62.9	10834	156.5	98.56
5/20/2021	14:00	28.5				-21	116.8	120.3	15.2	65.5	10264	152.7	98.51
5/20/2021	16:00	28.5				-21	120.6	124.8	15.7	66.2	9922	154.5	98.44
5/20/2021	18:00	28.5				-21	119.1	122.5	15.5	63.9	8673	147.9	98.29
5/20/2021	20:00	28.5				-21	112.2	119.4	14.6	69.1	8755	149.3	98.29
5/20/2021	22:00	28.5				-21	113.7	117.9	14.8	73.7	8719	151.5	98.26
5/20/2021	0:00	28.5				-22	117.5	114.1	15.3	70.4	8834	142.3	98.39
5/21/2021	8:00	28.5				-22	111.4	107.5	14.5	72.1	8681	140.9	98.38
5/21/2021	10:00	28.5				-22	114.5	116.2	14.9	68.5	9416	129.6	98.62
5/21/2021	12:00	28.5				-22	110.6	119.7	14.4	65.7	9368	131.2	98.60
							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	14.37	15.23		27.84

Site Location: Quick Pantry #19	Date: 5/17/2021	
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

[illegible]

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
5/17/2021

Site Location: Quick Pantry #19

Date: 5/18/2021 – 5/19/2021

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

AFVR Contractor:
Vacuum Recovery
Technologies, LLC

Field Personnel:
KLM Environmental, LLC: Chris

General Weather Conditions:
Sunny/Clear

		Target Well			Adjacent Well (every 2 Hrs)					
Time	MW-1									
	Hg	Hg	Hg		DTW	Hg	DTW	Hg	DTW	Hg
5/18/2021										
8:00	-15									
10:00	-15									
12:00	-15									
14:00	-15									
16:00	-16									
18:00	-16									
20:00	-15									
22:00	-15									
24:00	-15									
5/19/2021										
8:00	-14									
10:00	-15									
12:00	-15									
14:00	-15									
16:00	-14									
18:00	-16									
20:00	-16									
22:00	-15									
24:00	-15									




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
5/18/2021 – 5/19/2021

Site Location: Quick Pantry #19						Date: 5/20/2021 – 5/21/2021			
Site Conditions: Site was in good condition. Wells were found in good condition.									
AFVR Contractor: Vacuum Recovery Technologies, LLC			Field Personnel: KLM Environmental, LLC: Chris				General Weather Conditions: Sunny/Clear		
	Target Well			Adjacent Well (every 2 Hrs)					
Time	MW-1								
	Hg	Hg	Hg	DTW	Hg	DTW	Hg	DTW	Hg
5/20/2021									
8:00	-16								
10:00	-16								
12:00	-15								
14:00	-16								
16:00	-14								
18:00	-14								
20:00	-14								
22:00	-15								
24:00	-15								
5/21/2021									
8:00	-15								
10:00	-16								
12:00	-15								



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
5/20/2021 – 5/21/2021

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

5/17/21 - 5/21/21

$$\text{PPM}_w = \text{PPM}_{\text{measured}} = 13189.22$$

$$\text{PPM}_d = \text{PPM}_w / (1 - Bws) = 14076.77$$

$$\text{PPM}_c = (\text{PPM}_d)(K) = 56307.08$$

$$C_{c:m} = \text{PPM}_c (M_c / K_3) = 28095.06$$

$$C_c = C_{c:m} (62.43 \times 10^{-9}) = 0.001754$$

$$\text{PMR}_c = C_c (Q_{\text{std}})(60) = 10.45678$$

$$\text{PMR}_g = (\text{PMR}_c)(M_g / M_{cg}) = 12.10166 \text{ lbs of emissions per hour}$$

185.8816 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:		Phone ()
		P O #:
3. Agent of Generator and Mailing Address:		Phone ()
		P O #:
4. Transporter Company Name:		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	<div style="display: flex; justify-content: space-between;"> <div>Mailing Address: US Water Recovery 511 Old Mt. Holly Rd. Goose Creek, SC 29445</div> <div>Phone: (843) 797-3111 Fax: (843) 797-1884</div> </div>	
7. Facility U.S. EPA ID#:		
Start Level:	End Level:	Total Gallons:
		Tank Number
8. U.S. DOT Description	Container No. Type	Unit Quantity
a. Non-Hazardous, non-regulated waste water		
QP #16		3,030 Gals. 55gal
WATER	EP	
(2944)	(86)	
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:	Signature:	Date:
10. Transporter Acknowledgement of Receipt of Materials		
Printed/Typed Name:	Signature:	Date:
STEVEN HIRD	STEVEN HIRD	5-24-21
11. Discrepancy Indication space:		
12. Facility Owner or Operator: Certification of Receipt of Materials		
Printed/Typed Name:	Signature:	Date
Dan Ward	Dan Ward	5-24-21

White - Facility

Yellow - Office

Pink - Transporter

Blue - Generator

26674

102 U.S. 25

Greenwood County

South Carolina

May 24, 2021 2:30:26 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



KLM Environmental, LLC

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

Figure 2
Sample Location Map
Quick Pantry # 19
Greenwood, SC
Project # 21547



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 ³ /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: 3023_001.pdf

Mark Lee Keller <mkeller131@comcast.net>

Thu 5/27/2021 7:12 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. ***

I should have the report on the 3rd event done early next week and out to you.

Thanks!!

Mark

Mark L. Keller, PG
President

 KLM Environmental, LLC

PO Box 2704

Goose Creek, SC 29445

843-870-4285 Cell

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

Sent: Thursday, May 27, 2021 1:07 PM

To: mkeller131@comcast.net

Subject: RE: 3023_001.pdf

Yes please, then I can get that one over to Ashleigh for review as well. Do you know when the report will be ready for the third event? I told her we got a good amount of free product again, but I didn't have the exact totals yet. Also, I will assign a new CA number for the camera investigation, so we won't have to have another addendum added to the assessment.

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 [Facebook](#) [Twitter](#)





From: Mark Keller <mkeller131@comcast.net>

Sent: Thursday, May 27, 2021 12:44 PM

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

Subject: Re: 3023_001.pdf

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

Do you need me to request additional AFVR events as well?

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 May 27, 2021, at 12:21 PM, Reilly, Caitlin M. <reillycm@dhec.sc.gov> wrote:

Thank you! I'll get working on the Notice to Proceed letter this afternoon.

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 [Facebook](#) [Twitter](#)



From: Mark Keller <mkeller131@comcast.net>

Sent: Thursday, May 27, 2021 12:19 PM

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

Subject: Re: 3023_001.pdf

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

Caitlin

We are requesting approval of the camera quote to attempt to determine where free phase gasoline is entering the drain pipe. We have free phase product dripping from the pipe but assessment results do not show contaminants in this area at the elevation needed to allow infiltration into the drain pipe.

Thanks

Mark

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Office: 843-797-7884

On May 27, 2021, at 11:12 AM, Reilly, Caitlin M. <reillycm@dhec.sc.gov> wrote:

Hey Mark,

I hate to be a pain, but can you write out a brief paragraph just stating what this quote is for and why it's needed? We need some kind of written request to submit in with the quote. It doesn't have to be on letterhead or anything, you can just reply to this email if you'd like.

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 [Facebook](#) [Twitter](#)

From: Mark Keller <mkeller131@comcast.net>**Sent:** Wednesday, May 26, 2021 1:38 PM**To:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>**Subject:** 3023_001.pdf

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

Proposal

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

Wed 5/26/2021 3:00 PM

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

Oh no! Well I hope the days gets better for you and some clouds roll in. I'll get this over to Ashleigh so we can get things rolling, I really want to know what's going on with this mystery pipe...

-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 [Facebook](#) [Twitter](#)

From: Mark Keller <mkeller131@comcast.net>**Sent:** Wednesday, May 26, 2021 1:32 PM**To:** Reilly, Caitlin M. <reillycm@dhec.sc.gov>**Subject:** Re: Proposal

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

I am sorry about that!! I will forward the quote in a few minutes. Chris is resending it to me.

It's hot as @@\$ out here! And we broke the heck out of a water sampler this morning, and spent most of the day clearing so not much footage. No bueno!

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 May 26, 2021, at 1:17 PM, Reilly, Caitlin M. <reillycm@dhec.sc.gov> wrote:

Hey Mark,

I just got a chance to look over this email and I don't see an attachment. When you get the time can you try to send it again? Or can you have Chris send the original, whichever is easier.

I hope it's not too hot out there for you guys today! And let me know if you need anything else, 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 [Facebook](#) [Twitter](#)



From: Mark Keller <mkeller131@comcast.net>
Sent: Tuesday, May 25, 2021 2:29 PM
To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Subject: Fwd: Proposal

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

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

Begin forwarded message:

From: Chris Austin <butta312414@gmail.com>
Date: May 25, 2021 at 1:08:29 PM EDT
To: mkeller131 <mkeller131@comcast.net>
Subject: Fwd: Proposal

----- Forwarded message -----

From: **Chris Austin** <butta312414@gmail.com>
Date: Tue, May 25, 2021, 1:07 PM
Subject: Re: Proposal
To: Wayne Mathis <wmathis@mathispha.com>
Cc: Tyler Mathis <tmathis@mathispha.com>

Received, thank you.

On Tue, May 25, 2021, 1:06 PM Wayne Mathis <wmathis@mathispha.com> wrote:

Chris,

Attached is requested proposal to camera storm drain pipe that we discussed.

Thanks for the opportunity,

Wayne

L. Wayne Mathis
Vice-President/Owner
Mathis Plumbing & Heating Co., Inc.
Epoxy Pipe RSE - A Division of Mathis
Post Office Box 716 • Greenwood, SC 29648
Office 864.229.7117 • Fax 864.229.5726
wmathis@mathispha.com
www.mathisplumbingheatingair.com





UST # 04785

Mark Lee Keller <mkeller131@comcast.net>

Tue 6/1/2021 11:22 AM

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

1 attachment(s) (5 MB)

Quick Reply = 10 SCDHEC Letter 6-1-21.pdf

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

Caitlin,

Attached is the AFVR report for the Quick Pantry # 19 site. I am putting a hard copy in the mail today as well. We recovered another 86 gallons of free product during that event, and 185.88 gallons as vapor. Over 3 events, we have 745 gallons of free product, and 519.47 gallons recovered as vapor. Very good recovery thus far. We are recommending continued AFVR events at the site until we see recovery decreasing significantly. Just let me know how many events you would like to see and I will get them scheduled.

On the probing, we are in contact with Greenwood County on access at the SCDHEC building and should know something on that property pretty soon. We should be back on site about June 21st to finish up the probing work I hope. We developed a helium leak in the GC and it is being repaired on June 15th. We should be ready for action again after 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

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

Fri 5/14/2021 11:52 AM

To: mkeller131@comcast.net <mkeller131@comcast.net>; Vincent, Malayika M. <vincenMM@dhec.sc.gov>

Hey Mark,

Thank you for the update! I will write these down on my calendar. I'm also trying to figure out a day I can come out for another site visit. I'll let you know when I nail down a date.

Thank you and I hope you have a wonderful weekend!
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 [Facebook](#) [Twitter](#)



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

Sent: Thursday, May 13, 2021 5:45 PM

To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>; Vincent, Malayika M. <vincenMM@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 & Malayika,

We will be performing the 96 hour AFVR event at this site May 17th through 21st.

We will also begin probing activities again on May 17th. We have blocked out probing until May 27th at the site. We may need to go back again but we will see where we are at after we get through this part.

Thanks!

Mark

Mark L. Keller, PG
President

The logo for KLM Environmental, LLC, featuring a stylized 'K' made of three curved lines. **KLM Environmental, LLC**
PO Box 2704
Goose Creek, SC 29445

6/8/2021

Mail - Reilly, Caitlin M, - Outlook

843-870-4285 Cell

FW:

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

Mon 5/24/2021 4:28 PM

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

Data tables that go with the map

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 [Facebook](#) [Twitter](#)



From: Mark Keller <mkeller131@comcast.net>

Sent: Monday, May 24, 2021 1:21 PM

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

Subject:

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

Data tables: I will send photos of chromatographs for the area you want, the one before it, and the one after it to follow.

MARK



Font	Size	Paragraph	Style	Font	Size	Style	Font	Size	Style
GP-19	4/29/21	GW	40	—	49.77	—	—	—	—
GP-20	4/29/21	GW	41.5	—	—	—	—	—	refusal
GP-21	4/29/21	GW	20	1289.63	3506.85	—	3019.88	3142.14	NTA
GP-22	4/29/21	GW	20	2121.58	3096.41	—	1588.78	3151.78	NTA
GP-23	4/29/21	GW	20	2850.38	5284.74	—	6160.42	***	NTA
GP-24	4/29/21	GW	20	3231.66	4151.91	—	4442.42	3073.59	NTA
GP-25	4/29/21	GW	20	2239.09	3501.06	—	3821.55	3651.06	NTA
GP-26	4/29/21	GW	20	1425.07	2469.25	—	1077.82	526.78	NTA
GP-27	4/29/21	GW	20	—	—	—	—	—	—
GP-28	4/29/21	GW	23	—	—	—	—	—	refusal
GP-29	4/29/21	GW	25	—	—	—	—	—	—
GP-30	4/30/21	GW	30	679.19	1212.78	—	775.75	1157.53	NTA
GP-31	4/30/21	GW	34	938.68	1500.64	—	874.57	1737.77	refusal
GP-32	4/30/21	GW	35	103.62	208.15	—	55.05	141.06	—
GP-33	4/30/21	GW	40	75.02	157.14	—	41.69	163.92	—
GP-34	4/30/21	GW	22	—	—	—	—	—	refusal
GP-35	4/30/21	GW	19	Dry	Dry	Dry	Dry	Dry	refusal
GP-36A	5/17/21	GW	15	Dry	Dry	Dry	Dry	Dry	—
GP-36B	5/17/21	GW	25	—	40.55	—	—	103.88	—
GP-37A	5/17/21	GW	20	Dry	Dry	Dry	Dry	Dry	—
GP-37B	5/17/21	GW	25	1276.17	1034.91	—	278.92	1703.21	—
GP-38	5/17/21	GW	25	96.93	258.71	—	41.72	254.58	—

GP-30	5/17/21	GW	25	-	-	-	-	-	-
GP-40	5/17/21	GW	25	28.39	-	-	-	-	-
GP-41	5/17/21	GW	25	59.86	-	-	-	-	-
GP-42	5/17/21	GW	25	2089.11	435.88	-	12.35	107.97	-
GP-43	5/18/21	GW	25	485.10	120.81	-	188.08	319.15	-
GP-44	5/18/21	GW	25	982.49	195.62	-	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	158.03	-	22.58	-	-
GP-47	5/18/21	GW	25	-	-	-	23.71	-	-
GP-48	5/18/21	GW	20	169.8	21.05	-	-	-	-
GP-49	5/18/21	GW	20	1103.28	1606.72	-	-	-	-
GP-50	5/18/21	GW	20	789.80	763.28	-	695.14	613.69	NTA
GP-51	5/18/21	GW	20	1508.56	2037.90	-	300.29	689.89	NTA
GP-52	5/18/21	GW	20	1142.18	841.81	-	745.55	3050.55	-
GP-53	5/18/21	GW	20	162.91	148.28	-	292.84	922.17	-
GP-54	5/18/21	GW	20	1443.17	2173.64	-	28.62	382.72	-
GP-55	5/18/21	GW	20	415.98	413.06	-	516.87	-	NTA
GP-56	5/18/21	GW	20	558.75	1560.97	-	39.33	190.50	-
GP-57	5/18/21	GW	20	163.73	279.63	-	649.92	804.72	NTA
GP-58	5/18/21	GW	20	602.88	962.82	-	125.08	-	-
GP-59	5/18/21	GW	20	943.68	358.57	-	218.98	263.96	NTA
GP-60	5/18/21	GW	20	469.61	452.26	-	121.27	582.35	NTA
GP-61	5/18/21	GW	20	1104.13	1516.85	-	203.02	-	NTA
GP-62	5/18/21	GW	20	526.59	529.65	-	1159.35	1649.17	NTA
GP-63	5/18/21	GW	20	162.04	182.99	-	152.87	-	NTA
GP-64	5/19/21	GW	20	177.50	347.79	-	117.15	-	NTA
GP-65	5/19/21	GW	20	146.18	144.65	-	197.92	540.35	NTA
GP-66*	5/19/21	GW	15	123.28	201.23	-	37.66	103.19	NTA
GP-67	5/19/21	GW	20	331.80	52.31	-	23.98	-	-
GP-68	5/19/21	GW	20	489.73	281.60	-	21.05	-	NTA
GP-69	5/19/21	GW	20	472.27	538.53	-	86.40	213.18	NTA
GP-70	5/19/21	GW	20	561.30	561.82	-	258.85	390.85	NTA
GP-71	5/19/21	GW	20	820.71	484.28	-	408.82	2491.95	NTA
GP-72	5/19/21	GW	20	393.46	1300.56	-	181.64	2860.98	-
GP-73	5/19/21	GW	20	128.77	387.58	-	1369.88	2456.55	NTA
GP-74	5/19/21	GW	20	-	47.2	-	119.68	597.97	-
GP-75	5/19/21	GW	20	-	25.29	-	-	409.24	-
GP-76	5/19/21	GW	20	38.57	25.20	-	-	351.14	-
GP-77	5/19/21	GW	20	-	-	-	12.79	-	-
GP-78	5/19/21	GW	20	-	-	-	-	-	-
GP-79	5/19/21	GW	20	-	-	-	-	-	-
GP-80	5/19/21	GW	20	-	-	-	-	97.67	-
GP-81	5/19/21	GW	20	-	-	-	-	-	-
GP-82	5/19/21	GW	20	-	-	-	-	-	NTA
GP-83	5/19/21	GW	20	-	-	-	-	-	-
GP-84	5/19/21	GW	20	-	23.39	-	11.57	-	-
GP-85	5/20/21	GW	20	-	-	-	-	-	-
GP-86	5/20/21	GW	20	-	-	-	-	-	-

D Focus

GP-87	5/20/21	GW	20	-	-	-	-	-	
GP-88	5/20/21	GW	20	-	-	-	-	178.76	
GP-89	5/20/21	GW	20	-	-	-	-	82.89	
GP-90	5/20/21	GW	15	-	-	-	-	421.96	
GP-91	5/20/21	GW	15	-	-	-	-	-	
GP-92	5/20/21	GW	20	-	-	-	-	-	
GP-93A	5/20/21	GW	13	Dry	Dry	Dry	Dry	Dry	Refusal
GP-93B	5/20/21	GW	18	Dry	Dry	Dry	Dry	Dry	Refusal
GP-94	5/20/21	GW	15	-	-	-	-	129.99	
GP-95A	5/20/21	GW	15	Dry	Dry	Dry	Dry	Dry	
GP-95B	5/20/21	GW	20	140.80	565.57	-	428.55	954.55	NTA
GP-96A	5/20/21	GW	15	Dry	Dry	Dry	Dry	Dry	
GP-96B	5/20/21	GW	20	538.10	211.60	-	78.67	379.25	NTA
GP-97A	5/20/21	GW	15	Dry	Dry	Dry	Dry	Dry	
GP-97B	5/20/21	GW	20	157.23	319.27	-	134.55	119.95	NTA
GP-98A	5/20/21	GW	15	Dry	Dry	Dry	Dry	Dry	
GP-98B	5/20/21	GW	20	331.86	482.80	-	188.82	-	NTA
GP-99	5/20/21	GW	20	358.26	531.00	-	203.37	-	NTA
GP-100	5/20/21	GW	20	718.09	49.49	-	-	255.08	
GP-101	5/20/21	GW	15	294.11	-	-	-	-	NTA
GP-102	5/20/21	GW	15	547.73	-	-	-	-	NTA
GP-103	5/20/21	GW	15	437.94	29.05	-	-	148.32	NTA
GP-104	5/20/21	GW	15	-	-	-	-	-	
GP-105	5/20/21	GW	15	-	-	-	-	-	
GP-106	5/24/21	GW	15						
GP-107	5/24/21	GW	15						
GP-108	5/24/21	GW	15						
GP-109	5/24/21	GW	15						
GP-110	5/24/21	GW	15						
GP-111	5/24/21	GW	15						
GP-112	5/24/21	GW	15						
GP-113	5/24/21	GW	15						
SB-1	4/27/21	Soil	35						See Logs
TW-1	4/27/21	GW	20	FP	FP	FP	FP	FP	14.45-14.48
TW-2	4/27/21	GW	20	970.70	1655.94	-	1839.06	70.77	NTA
TW-3	4/27/21	GW	20	FP	FP	FP	FP	FP	13.40-14.18
TW-4	4/27/21	GW	20	2427.50	3337.58	-	3745.39	821.16	NTA
TW-5	4/27/21	GW	20	1358.42	5275.83	-	5804.82	3913.24	NTA
TW-6	4/28/21	GW	20	3433.29	4354.78	-	6547.08	383.26	NTA
TW-7	4/28/21	GW	20	FP	FP	FP	FP	FP	14.05-14.06
TW-8	4/28/21	GW	20	3588.66	5799.72	-	5914.88	4062.52	NTA
TW-9	4/28/21	GW	20	3193.12	4538.58	-	5316.66	4484.82	NTA
TW-10	4/28/21	GW	20	FP	FP	FP	FP	FP	14.92-14.93

***contaminant clearly visible on chromatograph but machine failed to identify.

Installed GP-36A and GP-37A, then let those sit for 1 hour while setup of decon pad and lab was completed. Holes were dry. Installed to 25 feet.

Tried GP-86 at 15 feet depth. Took 2 hours to make water and only 10ml recovered.

Focus

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

Re: QP 19

Mark Keller <mkeller131@comcast.net>

Tue 5/25/2021 5:51 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. ***

I was glad you guys got the experience. Good seeing 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 May 25, 2021, at 4:41 PM, Reilly, Caitlin M. <reillycm@dhec.sc.gov> wrote:

Thank you Mark. I had a great time learning to use the Geoprobe!

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, May 25, 2021 2:05 PM

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

Subject: QP 19

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

TABLE 1
Pondle Determination Data
Quick Party # 19
Grossmont, NC

Sample ID	Date	Matrix	Depth	Element	ppm	Volume	Hydrocarbon	ppm	ppm	ppm	Comments
CP-1A	4/7/21	UW	30	Org	Org	Org	Org	Org	Org	Org	25 Min
CP-1B	4/7/21	UW	30	Org	Org	Org	Org	Org	Org	Org	
CP-2	4/7/21	UW	30	Org	Org	Org	Org	Org	Org	Org	
CP-3	4/7/21	UW	30	Org	Org	Org	Org	Org	Org	Org	
CP-4	4/7/21	UW	30	Org	Org	Org	Org	Org	Org	Org	
CP-5	4/7/21	UW	30	Org	Org	Org	Org	Org	Org	Org	
CP-6	4/7/21	UW	30	Org	Org	Org	Org	Org	Org	Org	
CP-7	4/7/21	UW	30	Org	Org	Org	Org	Org	Org	Org	
CP-8	4/7/21	UW	30	Org	Org	Org	Org	Org	Org	Org	
CP-9	4/7/21	UW	30	Org	Org	Org	Org	Org	Org	Org	
CP-10	4/7/21	UW	30	Org	Org	Org	Org	Org	Org	Org	
CP-11	4/7/21	UW	30	Org	Org	Org	Org	Org	Org	Org	
CP-12	4/7/21	UW	30	Org	Org	Org	Org	Org	Org	Org	
CP-13	4/7/21	UW	30	Org	Org	Org	Org	Org	Org	Org	
CP-14	4/7/21	UW	30	Org	Org	Org	Org	Org	Org	Org	
CP-15	4/7/21	UW	30	Org	Org	Org	Org	Org	Org	Org	
CP-16	4/7/21	UW	30	Org	Org	Org	Org	Org	Org	Org	

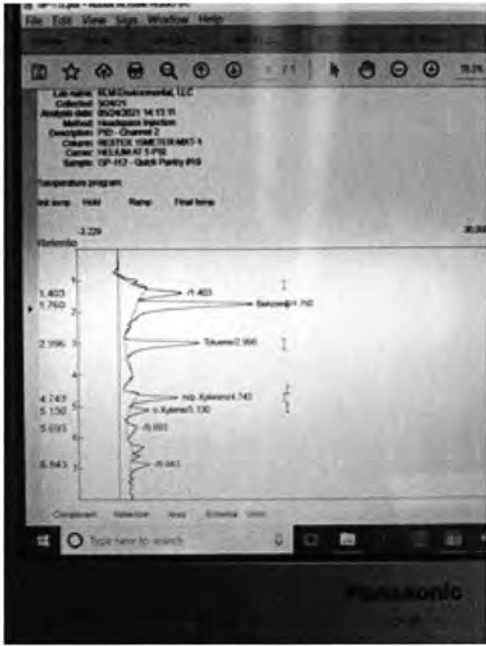
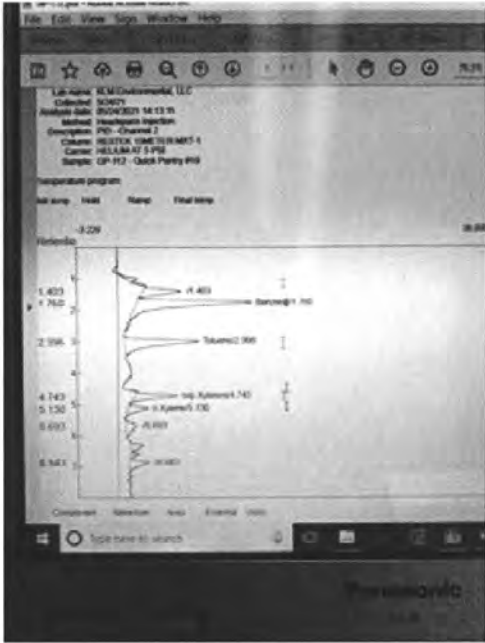
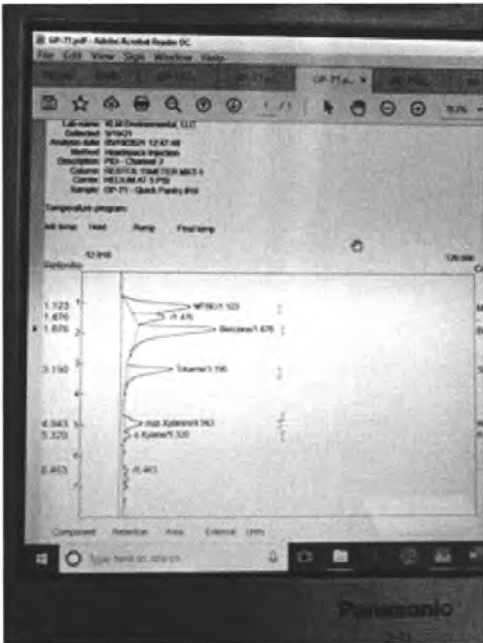
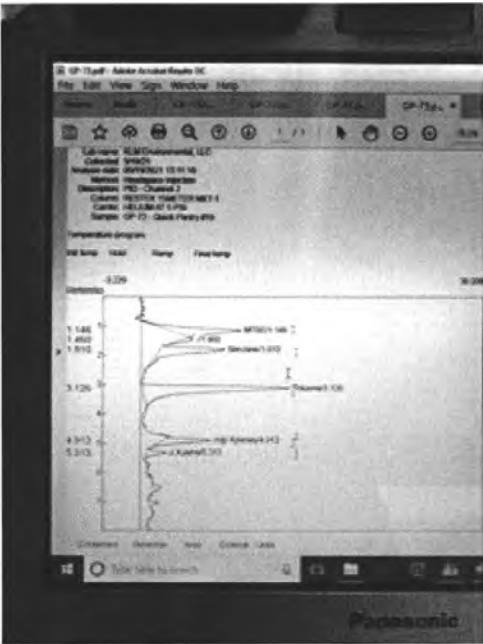


TABLE 1
Pond Dechlorination Data
Quick Priority #10
Greensboro, NC

Sample ID	Date	Matrix	Depth	gwt%	gwt%	gwt%	gwt%	gwt%	Comments
CP-1A	4/21/21	OW	20	0%	0%	0%	0%	0%	10 Min
CP-1B	4/21/21	OW	25						
CP-2	4/21/21	OW	30						
CP-3	4/21/21	OW	35						
CP-4	4/21/21	OW	25	67.22	176.09		28.92		N/A
CP-5	4/21/21	OW	25	1774.97	1977.18		3252.13	104.02	N/A
CP-6	4/21/21	OW	30					95.98	
CP-7	4/21/21	OW	25	821.29	1282.27		961.09	1048.93	N/A
CP-8	4/21/21	OW	25	565.18	1647.95		1069.35	1798.85	N/A
CP-9	4/21/21	OW	25	28.12	77.22				
CP-10	4/21/21	OW	25					205.71	
CP-11	4/21/21	OW	25		167.92		138.94	548.88	N/A
CP-12	4/21/21	OW	25		28.11		17.20		
CP-13	4/21/21	OW	25	2713.46	2891.38		2277.95	2367.44	N/A
CP-14	4/21/21	OW	25	2821.53	3751.90		1648.11	1618.58	N/A
CP-15	4/21/21	OW	25	73.71	417.90		254.17	148.58	N/A
CP-16	4/21/21	OW	25	58.29	563.63		50.99		





Mail - Reilly, Caitlin M. - Outlook



Site Map

Mark Keller <mkeller131@comcast.net>

Mon 5/24/2021 11:44 AM

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. ***

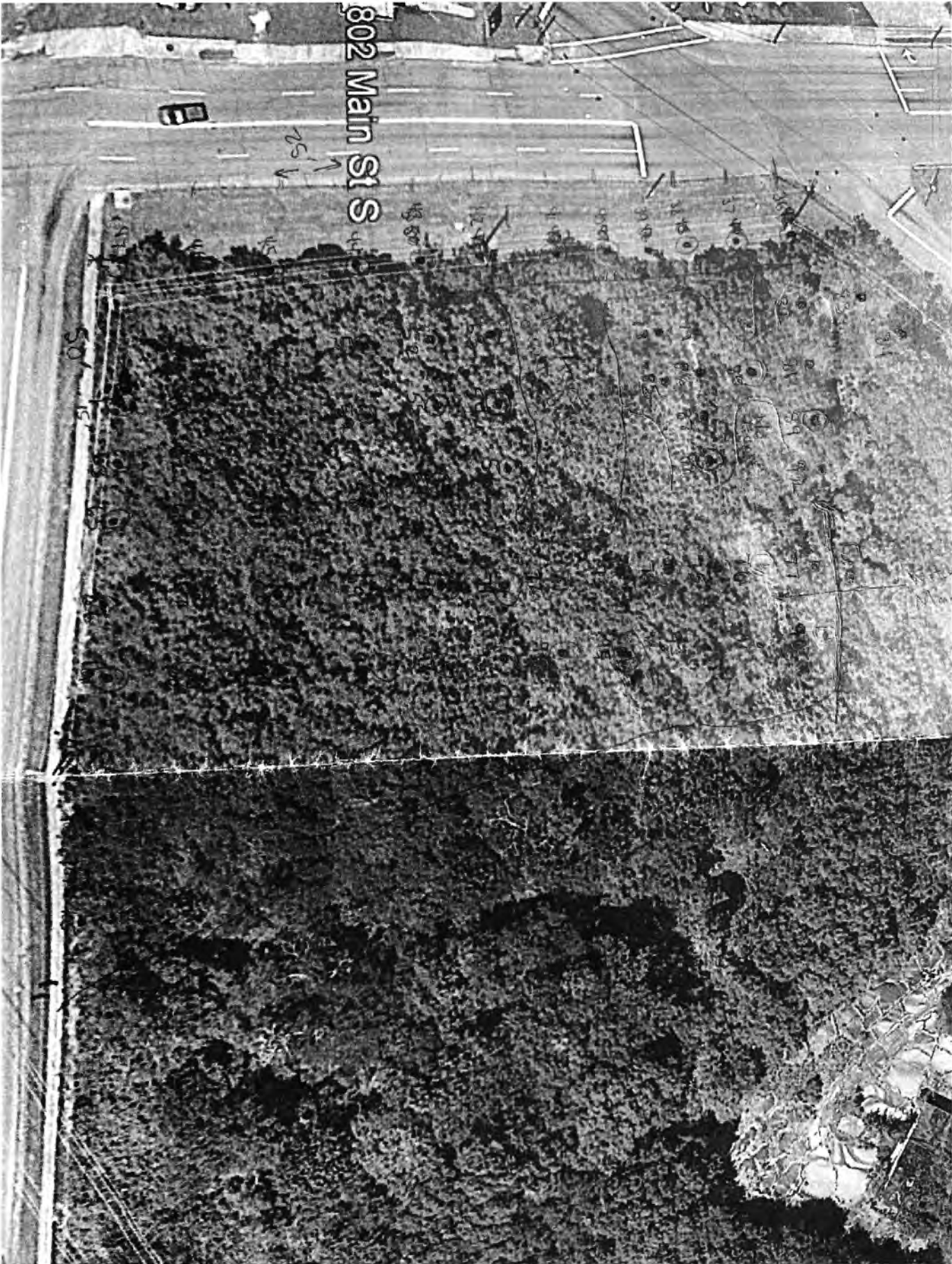
Caitlin

This is our current site map. We have a meeting tomorrow with Davis & Floyd about starting the survey now since I do not have any landmarks in these woods to go by. They want them to go ahead and survey the probe points in and then they will have to come back to survey the wells. It's getting much too large to handle this way and we will be getting on a different property this week. I will send you the data table once I have the lab set up this afternoon.

Thanks

Mark





Mark L Keller, PE
President
XLM Environmental, LLC
PO Box 2704
Goose Creek, SC 29445
Phone: 843-877-4285
Fax: 843-797-1353
Office: 843-797-7884



JUN 14 2021



MR PATEL
311 OAKMONTE CIRCLE
GREENWOOD SC 29649

Re: **Site Specific Work Plan Approval and Storm Drain Inspection Notice to Proceed**
Quick Pantry 19, 1802 South Main Street, Greenwood, SC
UST Permit #04785; CA #63859
Release #2 reported March 9, 2021
Site Specific Work Plan Received May 27, 2021
Greenwood County

Dear Mr. Patel:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed and approved the attached quote for the storm drain inspection submitted by your contractor. The quote was determined to be fair and reasonable for the work proposed. All work should be conducted in compliance with the most recent revision of the UST QAPP, your contractor's Annual Contractor Quality Assurance Plan, and all applicable regulations. A copy of the current revision of the UST QAPP is available at scdhec.gov/environment/land-waste/underground-storage-tanks/release-assessment-clean/quality-assurance.

The storm drain inspection should begin immediately upon receipt of this letter. The Cost Agreement number shown above has been approved for the amount shown on the enclosed cost agreement form.

The contractor must provide notification to the UST Project Manager via email 4 days prior to initiation of any site rehabilitation activities. If there are any changes to the schedule, the UST Project Manager must be contacted within 24 hours of those changes.

Your contractor can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. **The Monitoring Report, contractor checklist (QAPP Appendix K), and invoice should be submitted to the UST Division within sixty (60) days of the date of this correspondence.** If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available. **All receipts related to the storm drain inspection should be attached to the submitted invoice for review.**

Please note that sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that the SUPERB Account cannot compensate any costs that are not pre-approved. If for any reason additional tasks will be completed, these additional tasks, and the associated cost, must be pre-approved by the UST Division for the cost to be paid. The UST Division reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, the UST Division reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

On all correspondence regarding this site, please reference the UST Permit number above. Should you have any questions regarding this correspondence, please feel free to contact me by phone at (803) 898-3807, by fax at (803) 898-0673, or by e-mail at reillycm@dhec.sc.gov.

Sincerely,

A handwritten signature in black ink that reads "Caitlin Reilly". The signature is written in a cursive, flowing style.

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

enc: Approved Cost Agreement
Approved Quote
Emailed Proposal

cc: KLM Environmental LLC, PO Box 2704, Goose Creek, South Carolina 29649 (w/ enc)
Mr. Shah Aziz, 311 Oakmonte Circle, Greenwood, South Carolina 29445 (w/ enc)
Technical file (w/ enc)



P.O. BOX 716
GREENWOOD, SC 29648

Phone: (864) 229-7117

Fax: (864) 229-5726

SC LICENSE M-1371

PROPOSAL

5/25/2021

KLM Environmental
Attention: Chris Austin (843) 530-6224
Re: Camera Storm Line
Location: Foundry Rd., Greenwood, SC

Scope: Camera existing storm drain line from discharge end. (approx. 250')

Includes:

- Camera/Tractor System
- Recording
- Mobilization
- Equipment
- Labor

Minimum 2 Hour Charge \$650.00

Notes:

1. Does not include cleaning, if needed.
2. If any unknown conditions become evident, additional charges may become necessary and will need approval.
3. Mathis holds an "Unlimited State Plumbing and Mechanical Licenses" M-1371
4. Mathis standard one-year workmanship warranty applies.
5. Mathis Plumbing & Heating Co. has been awarded "1st Place Reader's Choice" and also voted "Simply the Best" in the Lakelands area.
6. Mathis was awarded the SBA "Family Owned Business of the Year" for South Carolina and also has been awarded the SBA "Family Owned Business for the Entire 8-State Southeast Region".

Notice: Payment with cash or check is due upon completion.

Total \$650.00

***Payments with credit or debit cards and in-house financing will incur additional fees.**

Payment is due as per proposal and/or contract agreement. A service charge of 1.5% will added each month to any unpaid or outstanding balances. Mathis reserves the right to recover any and all cost which includes but not limited to Collection Agency and Attorney Fees.

WE PROPOSE hereby to furnish material and labor in accordance with the above specifications, for the sum of:

Six hundred and fifty dollars..... 650.00

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Workers' Compensation insurance. Note: This proposal may be withdrawn by us if not accepted within 30 days.

Authorized Signature:

J. Wayne Mathis

This proposal may be withdrawn by contractor at any time prior to acceptance, and will become void if above work is not performed within thirty (30) days of effective date.

ACCEPTANCE OF PROPOSAL -- The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Signature: _____

Date of Acceptance: _____

Re: 3023_001.pdf

Mark Keller <mkeller131@comcast.net>

Thu 5/27/2021 12:20 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. ***

Caitlin

We are requesting approval of the camera quote to attempt to determine where free phase gasoline is entering the drain pipe. We have free phase product dripping from the pipe but assessment results do not show contaminants in this area at the elevation needed to allow infiltration into the drain pipe.

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 May 27, 2021, at 11:12 AM, Reilly, Caitlin M. <reillycm@dhec.sc.gov> wrote:

Hey Mark,

I hate to be a pain, but can you write out a brief paragraph just stating what this quote is for and why it's needed? We need some kind of written request to submit in with the quote. It doesn't have to be on letterhead or anything, you can just reply to this email if you'd like.

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 [Facebook](#) [Twitter](#)

From: Mark Keller <mkeller131@comcast.net>
Sent: Wednesday, May 26, 2021 1:38 PM
To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Subject: 3023_001.pdf

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

Proposal

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

Approved Cost Agreement**63859**

Facility: 04785 QUICK PANTRY 19

REILLYCM

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
R MISCELLANEOUS					
		STORM DRAIN INSPECTION	1.0000	\$650.000	650.00
S REPORT PROJECT MANAGEMENT					
		S REPORT PREP & PROJ. MANAGEMENT	0.1200	\$650.000	78.00
Total Amount					728.00



JUN 18 2021



MR MIKE PATEL
311 OAKMONTE CIRCLE
GREENWOOD SC 29649

Re: Aggressive Fluid and Vapor Recovery Notice to Proceed
Quick Pantry 19, 1802 South Main Street, Greenwood, SC
UST Permit #04785; CA #63514
Release reported and confirmed date March 9, 2021
Aggressive Fluid Vapor Recovery received via email April 21, 2021
Greenwood County

Dear Mr. Patel:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the above referenced report which documents free-phase product (FPP) or Chemicals of Concern (CoC) in the subsurface as a result of the above referenced release. In addition, we have received complaints from citizens in the area about petroleum vapors which represent a risk to human health and the environment. DHEC personnel visited the site March 26, 2021 and March 29, 2021 and confirmed the presence of vapors as well as noted a petroleum seep in the nearby creek.

DHEC approves the above referenced SSWP so that free-phase product removal on-site may commence. Please note the following changes to the cost agreement and Site Specific Work Plan (SSWP) addendum:

- Line W16 – Gallons of AFVR Effluent Disposal has been changed from 7,000 to 5,000

In accordance with Section 280.64 of the South Carolina Underground Storage Tank Control Regulations R.61-92, Aggressive Fluid and Vapor Recovery (AFVR) events may proceed immediately upon receipt of this letter as outlined in this directive, the approved Site-Specific Work Plan, and the current revision of the UST Quality Assurance Program Plan (QAPP). **Please be aware that the AFVR Procedures have been updated.** Please advance to the target depth(s) within the first eight (8) hours of the event. Thereafter, the stinger(s) should be adjusted to achieve the highest vapor recovery while maintaining dewatering of the smear zone. Off-gas treatment will be necessary. A copy of the current revision of the UST Division's QAPP is available at

<https://scdhec.gov/environment/land-waste/underground-storage-tanks/release-assessment-clean/quality-assurance>.

As soon as the beginning date of the event has been scheduled, please contact the Project Manager listed below. Preliminary AFVR data should be submitted electronically for review at the completion of the third event. At that time, DHEC will issue another AFVR directive if AFVR is effective at removing FPP.

The fourth AFVR Report should be submitted within 90 days from the date of this correspondence.

Please note that all applicable South Carolina certification requirements apply to the services and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

According to UST Division records, the release at the facility was reported to DHEC on the above referenced date. In accordance with Section 44-2-40(D) of the State Underground Petroleum Environmental Response Bank (SUPERB) Act, you are responsible for the first \$25,000 of site rehabilitation costs. To ensure that costs for the assessment apply to the \$25,000 deductible, please provide proof of costs that will be applied to the deductible with the invoice. Acceptable proof or payment of deductible costs include a copy of the cancelled check (front and back) of payment made to your contractor or a signed notarized statement by your contractor for the amount that was paid directly to your contractor. Your contractor can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for preapproved costs that exceed the \$25,000 deductible.

DHEC grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. The transport and disposal must be conducted in accordance with the QAPP. If CoC concentrations, based on laboratory analysis, are below Risk Based Screening Levels, please contact the Project Manager for approval to dispose of soil and/or groundwater on site. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

On all correspondence concerning this site, please reference UST Permit #04785. If there are any questions concerning this project, feel free to contact me by telephone at (803) 898-3807, by fax at (803) 898-0673, or by e-mail at reillycm@dhec.sc.gov.

Sincerely,



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

cc: Mr. Shah Aziz, 311 Oakmonte Circle, Greenwood, SC 29649
KLM Environmental LLC, PO Box 2704, Goose Creek, South Carolina 29445 (w/o enc)
Technical file (w/enc)

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
A PLAN PREPARATION					
		1 SITE SPECIFIC WORK PLAN	1.0000	\$160.050	160.05
Q DISPOSAL					
		2 FREE PRODUCT	659.0000	\$0.530	349.27
S REPORT PROJECT MANAGEMENT					
		S REPORT PREP & PROJ. MANAGEMENT	0.1200	\$83,804.230	10,056.51
W AFVR					
		14 AFVR SITE RECONNAISSANCE	1.0000	\$216.870	216.87
		16 AFVR EFFLUENT DISPOSAL	52,000.0000	\$0.470	24,440.00
		17 AFVR MOB - DEMOB	4.0000	\$417.730	1,670.92
		4 96 HOUR EVENT	4.0000	\$13,409.520	53,638.08
		8 OFF GAS TREATMENT 96 HOUR	4.0000	\$832.260	3,329.04
Total Amount					93,860.74

Re: David with Blizzard

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

Thu 7/8/2021 9:15 AM

To: mkeller131@comcast.net <mkeller131@comcast.net>; 'Chris Austin' <butta312414@gmail.com>

Cc: 'Graham Robinson' <grahampatrickrobinson@gmail.com>

Hey Mark,

I hope you had a good holiday weekend! Sorry it's taken me some time to get back to you, I have been slammed since I got back. I agree, that does seem really high and that's no problem. Please let me know if you anything from me to help with the bidding process.

Also, I just got an invoice for the assessment work that has been done so far, everything has been approved and they're financial status has been changed to with SUPERB.

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 [Facebook](#) [Twitter](#)



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

Sent: Thursday, July 1, 2021 5:31 PM

To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>; 'Chris Austin' <butta312414@gmail.com>

Cc: 'Graham Robinson' <grahampatrickrobinson@gmail.com>

Subject: RE: David with Blizzard

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


Caitlin,

We got this proposal today for clearing the line and redoing the camera. I feel like its over the top expensive. Obviously, the cost makes it a 3 bid scenario under the guidelines. This price didn't even include disposal of the soil/water generated. I also attach a copy of the invoice he sent us for the failed camera work. We will start looking for other bids on the work with your approval. We could certainly try to clear it ourselves but there is no mechanism that I am aware of to get approved for payment on non-scope items like this. It's an unknown amount of time, unknown disposal quantities for soil and groundwater, and unknown obstacles up the pipe to find our answers, which means an undefined amount of time to get the job done.

Graham and Chris, please coordinate with each other and begin soliciting bids to clear this storm drain line and get a camera up in there to see where this fuel is infiltrating. Lets talk to some vacuum truck companies in this area that have jetting capability first. We know the camera cost is \$650 through Mathis. Lets see if any of the vac truck companies that perform jetting have cameras as well. We need bids to get this completed and we need them pretty quickly. Please keep me updated on the progress.

Mark

Mark L. Keller, PG
President

 KLM Environmental, LLC

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

From: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Sent: Wednesday, June 30, 2021 4:45 PM
To: Chris Austin <butta312414@gmail.com>
Cc: mkeller131@comcast.net
Subject: Re: David with Blizzard

Hey Guys,

I just gave David a call and he let me know the drive shaft in his truck is broken and if I heard him correctly, he's actually in the hospital right now. He told me he's still waiting to hear back about where he can dump the soil so im guessing we're holding off on it for this week...

Thanks,
Caitlin

Caitlin Reilly

From: Chris Austin <butta312414@gmail.com>
Sent: Wednesday, June 30, 2021 4:15:20 PM
To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Cc: mkeller131@comcast.net <mkeller131@comcast.net>
Subject: David with Blizzard

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

Caitlin this is Chris from KLM. I have not heard anything from David. This is his number so you can reach out to him. David 704 - 968-8288. Thanks



P.O. BOX 716
GREENWOOD, SC 29648

Phone: (864) 229-7117

Fax: (864) 229-5726

SC LICENSE M-1371

PROPOSAL

7/1/2021

KLM Environmental
Attention: Graham
Re: Clean & Camera Line
Location: 1802 South Main St., Greenwood, SC

Scope: Clean and camera storm drain line.

Includes:

- Jet-Vac Machine
- Robotic Camera
- Labor Crew

Price Per Day (8 Hours) \$4,250
Additional Time after 8 hrs. (Per Hour) \$650

*No mobilization fee included. (Greenwood Area)

Notes:

1. Transferring and disposing of contaminated materials by others.
2. Dumping of materials to be on jobsite.
3. If any unknown conditions become evident, additional charges may become necessary.
4. Mathis holds an "Unlimited State Plumbing and Mechanical Licenses" M-1371
5. Mathis standard one-year workmanship warranty applies.
6. Mathis Plumbing & Heating Co. has been awarded "1st Place Reader's Choice" and also voted "Simply the Best" in the Lakelands area.
7. Mathis was awarded the SBA "Family Owned Business of the Year" for South Carolina and also has been awarded the SBA "Family Owned Business for the Entire 8-State Southeast Region".

Notice: Payment with cash or check is due upon completion.

Price Per Day (8 Hours) _____ \$4,250
Additional Time after 8 hrs. (Per Hour) _____ \$650

***Payments with credit or debit cards and in-house financing will incur additional fees.**

Payment is due as per proposal and/or contract agreement. A service charge of 1.5% will added each month to any unpaid or outstanding balances. Mathis reserves the right to recover any and all cost which includes but not limited to Collection Agency and Attorney Fees.

WE PROPOSE hereby to furnish material and labor in accordance with the above specifications, for the sum of:

Per Day 8 Hours - Four thousand two hundred and fifty dollars\$4,250
Additional Time after 8 hrs. (Per Hour) ... Six hundred and fifty dollars.....\$650

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Workers' Compensation insurance. Note: This proposal may be withdrawn by us if not accepted within 30 days.

Authorized Signature: _____

L. Wayne Mathis

This proposal may be withdrawn by contractor at any time prior to acceptance, and will become void if above work is not performed within thirty (30) days of effective date.

ACCEPTANCE OF PROPOSAL - The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Signature: _____

Date of Acceptance: _____

BLIZZARD CONSULTING
A Division of Mathis Plumbing & Heating Co. Inc.
PO BOX 716
GREENWOOD, SC 29648
Phone: (864) 229-7117 Fax: (864) 229-5726

Date: 07/01/2021

Invoice: 71404
Proj Ref: 1802 S. Main Street Greenwood SC

BILLED TO:

KLM Environmental, LLC
PO Box 2704
Goose Creek SC 29445
Attn: Graham Robinson

PLEASE MAKE CHECKS PAYABLE TO:
MATHIS PLUMBING CO. INC.

REF: JOB SC001 MISC – KLM Environmental
SERVICE LOCATION: 1802 S. Main Street Greenwood S.C.

Minimum Camera Work in Storm Drain

BALANCE DUE \$650.00

WE APPRECIATE YOUR BUSINESS
DUE UPON RECEIPT

RE: UST # 04785

Mark Lee Keller <mkeller131@comcast.net>

Thu 6/24/2021 4:12 PM

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

3 attachments (5 MB)

Data Table Quick Pantry # 19.pdf Probing Map As-Built After Last Round Map 2.pdf Probing Map As-Built After Last Round Map 1.pdf

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

Caitlin,

Attached are two maps showing all the probe points, soil borings, and temporary wells we installed out here. A data table is also attached showing the results for each point. I wanted to get this to you for review. I will propose some well locations but wanted you to be able to look at this first. I am submitting an invoice for what we have done thus far with the probing. We need to get that through as we are way out on this job currently with our costs against no invoices. I am still waiting on the camera people to get a look up that drain pipe to see where in the world that fuel is coming from.

We have the next AFVR scheduled for the week of August 2nd. We have people out next month on vacations and we are still trying to catch up on our regular sites since we have been out on this job for 4 weeks. Yikes. The entire crew here is glad to have that part finished. I am sad I missed you and Malayika today! We have more to come on other sites so you will get to see the new lab I hope soon enough.

Thanks!

Mark

Mark L. Keller, PG
President

 KLM Environmental, LLC

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



From: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Sent: Wednesday, June 23, 2021 12:14 PM
To: mkeller131@comcast.net
Cc: Vincent, Malayika M. <vincentMM@dhec.sc.gov>
Subject: Re: UST # 04785

Mark,

Well shoot, I wanted to see your new lab set up, but I know you guys are happy!! We'll still go out tomorrow and take a look at the new probe points and see how the leaking pipe is doing. Do you have a date for the next AFVR event yet?

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 [Facebook](#) [Twitter](#)



From: Mark Keller <mkeller131@comcast.net>
Sent: Wednesday, June 23, 2021 12:01 PM
To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Cc: Vincent, Malayika M. <vincenMM@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. ***

Caitlin

We wrapped up the probing about 30 min ago and are heading for home. Hooray!! Will be submitting data this week.

Thanks

Mark

Mark L Keller, PG
President
KLM Environmental, LLC
PO Box 2704
Goose Creek, SC 29045
Phone: 843-870-4285
Fax: 843-797-1893
Office: 843-797-7884

On Jun 23, 2021, at 11:11 AM, Reilly, Caitlin M. <reillycm@dhec.sc.gov> wrote:

Re: UST # 04785

Mark Keller <mkeller131@comcast.net>

Wed 6/30/2021 3:48 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. ***

Caitlin

I have not heard from anyone with Blizzard. Thanks have been trying to reach Chris about it but his wife lost her father Sunday so he has the wake today and funeral tomorrow. I will let you know if I find out any status.

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 Jun 30, 2021, at 1:31 PM, Reilly, Caitlin M. <reillycm@dhec.sc.gov> wrote:

Hey Mark,

Have you heard from David with Blizzards about tomorrow? He has yet to send me a quote and I don't have any of his contact information. I'm in Clarendon today but if he sends it over to me I can get Ashleigh to get the notice to proceed together for you guys.

Thanks,
Caitlin

From: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Sent: Tuesday, June 29, 2021 11:37:59 AM
To: mkeller131@comcast.net <mkeller131@comcast.net>
Subject: Re: UST # 04785

Mark,

Thank you! I got the ok from Ashleigh so as soon as we get the quote in from David at Blizzard Inc. I'll put together the addendum and get a copy sent over to you.

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 [Facebook](#) [Twitter](#)

From: Mark Keller <mkeller131@comcast.net>
Sent: Monday, June 28, 2021 5:09 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. ***

No problem. I sent it under a separate email
So it would be easy to print out
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 Jun 28, 2021, at 4:59 PM, Reilly, Caitlin M. <reillycm@dhec.sc.gov> wrote

Hey Mark,

I'm sure Chris told you about our misfortune out at Greenwood today, it was a bust! David with Blizzard Inc is supposed to be emailing me a quote for what it will cost to clean out the pipe while he's doing the exploration. I have caught Ashleigh up to speed on what is transpiring, and she said finance will need a written explanation for the addendum. Can you send me over a quick statement explaining what the addendum is for and why it's necessary?

Nothing fancy, just a sentence or two that I can print off and turn in with the addendum. They still have my request for the personnel mob so I can add all this to that one.

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 [Facebook](#) [Twitter](#)

From: Mark Keller <mkeller131@comcast.net>
Sent: Friday, June 25, 2021 3:42 PM
To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Subject: Re: UST # 04785

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(No problem!) The job is supposed to start on Monday at 11:00. Chris will be on site. We will be on another Tier II for Ed in Myrtle Beach.

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: 843-787-7884

On Jun 25, 2021, at 2:52 PM, Reilly, Caitlin M.
<reillycm@dhec.sc.gov> wrote:

Mark,

So it looks like we have a lot of people out this afternoon so I won't be able to get you an official copy until Monday, but the personnel

mob is approved. Sorry about that!

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 [Facebook](#) [Twitter](#)

From: Reilly, Caitlin M. <reillycm@dhec.sc.gov>
Sent: Friday, June 25, 2021 10:56 AM
To: mkeller131@comcast.net <mkeller131@comcast.net>
Subject: Re: UST # 04785

Mark,

I'm so sorry about that, yes, a personal mob is definitely approved. I will get that addendum over to finance this morning so we can get you an updated copy of CA 63859. Also, at this time Malayika and I are planning on making another visit Monday, I haven't seen a camera inspection yet so it should be fun to watch.

As soon as I get the updated copy, I will shoot it over to you and drop a copy in the mail. Let me know if you need anything from me in the meantime.

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 [Facebook](#) [Twitter](#)

From: Mark Lee Keller <mkeller131@comcast.net>
Sent: Thursday, June 24, 2021 4:28 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,

The camera inspection has been scheduled for Monday, June 28th. If we didn't take that day it would be three weeks until the next available slot. I will need to request an addition to the camera approval under Cost Agreement # 63859. We need to add a personnel mobilization charge as we don't have one in there, only the cost of the camera inspection. I feel we must have someone on site to ask questions of the technician so we can get proper answers to what we are seeing out there. Let me know if that is approved.

Thanks

Mark

Mark L. Keller, PG
President

 KLM Environmental, LLC

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

Hey Mark,

Malayika, Corie, and I will be coming out to see you guys tomorrow, hopefully you still have some probing to do.

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 [Facebook](#) [Twitter](#)



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

Sent: Thursday, June 17, 2021 11:55 AM

To: Reilly, Caitlin M. <reillycm@dhec.sc.gov>; Vincent, Malayika M. <vincenMM@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 & Malayika,

We have the next phase of probing scheduled for the site beginning on Monday, June 21st. We will continue until completed.

Thanks!

Mark

Mark L. Keller, PG
President



KLM Environmental, LLC

PO Box 2704

Goose Creek, SC 29445

843-870-4285 Cell

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-1A	4/27/21	GW	20	Dry	Dry	Dry	Dry	Dry	20 Min
GP-1B	4/27/21	GW	25	--	--	--	--	--	
GP-2	4/27/21	GW	30	--	--	--	--	--	
GP-3	4/27/21	GW	30	--	--	--	--	--	
GP-4	4/27/21	GW	25	87.22	176.69	--	89.92	--	NTA
GP-5	4/27/21	GW	20	1774.97	1977.18	--	5252.13	584.02	NTA
GP-6	4/28/21	GW	30	--	--	--	--	90.66	
GP-7	4/28/21	GW	25	621.29	1352.27	--	961.05	1045.93	NTA
GP-8	4/28/21	GW	20	555.18	3047.98	--	2269.31	1790.01	NTA
GP-9	4/28/21	GW	25	36.10	77.22	--	--	--	
GP-10	4/28/21	GW	25	--	--	--	--	209.71	
GP-11	4/28/21	GW	25	--	167.10	--	136.94	646.09	NTA
GP-12	4/28/21	GW	25	--	88.11	--	57.20	--	
GP-13	4/28/21	GW	20	2733.46	3991.39	--	3572.36	2967.44	NTA
GP-14	4/28/21	GW	20	2821.33	3753.50	--	1665.61	3026.88	NTA
GP-15	4/29/21	GW	20	73.71	412.90	--	258.17	155.38	NTA
GP-16	4/29/21	GW	20	59.29	197.61	--	50.80	--	
GP-17	4/29/21	GW	20	--	169.89	--	55.84	--	
GP-18	4/29/21	GW	35	31.39	62.46	--	--	--	
GP-19	4/29/21	GW	40	--	49.77	--	--	--	
GP-20	4/29/21	GW	41.5	--	--	--	--	--	refusal
GP-21	4/29/21	GW	20	1289.63	3506.85	--	3019.88	3142.14	NTA
GP-22	4/29/21	GW	20	2121.58	3096.41	--	1588.78	3151.78	NTA
GP-23	4/29/21	GW	20	2850.38	5284.74	--	6160.42	***	NTA
GP-24	4/29/21	GW	20	3231.66	4151.91	--	4442.42	3073.59	NTA
GP-25	4/29/21	GW	20	2239.09	3501.06	--	3821.55	3651.06	NTA
GP-26	4/29/21	GW	20	1425.07	2469.25	--	1077.82	526.78	NTA
GP-27	4/29/21	GW	20	--	--	--	--	--	--
GP-28	4/29/21	GW	23	--	--	--	--	--	refusal
GP-29	4/29/21	GW	25	--	--	--	--	--	
GP-30	4/30/21	GW	30	679.19	1212.78	--	775.75	1157.53	NTA
GP-31	4/30/21	GW	34	938.68	1500.64	--	874.57	1737.77	refusal
GP-32	4/30/21	GW	35	103.62	208.15	--	55.05	141.06	
GP-33	4/30/21	GW	40	75.02	157.14	--	41.69	163.92	
GP-34	4/30/21	GW	22	--	--	--	--	--	refusal
GP-35	4/30/21	GW	19	Dry	Dry	Dry	Dry	Dry	refusal
GP-36A	5/17/21	GW	15	Dry	Dry	Dry	Dry	Dry	
GP-36B	5/17/21	GW	25	--	40.55	--	--	103.88	
GP-37A	5/17/21	GW	20	Dry	Dry	Dry	Dry	Dry	
GP-37B	5/17/21	GW	25	1276.17	1034.91	--	278.92	1703.21	
GP-38	5/17/21	GW	25	96.93	258.71	--	41.72	254.58	

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-39	5/17/21	GW	25	--	--	--	--	--	
GP-40	5/17/21	GW	25	29.39	--	--	--	--	
GP-41	5/17/21	GW	25	59.06	--	--	12.35	107.97	
GP-42	5/17/21	GW	25	2099.11	435.88	--	186.98	319.15	
GP-43	5/18/21	GW	25	465.10	120.81	--	16.30	108.76	
GP-44	5/18/21	GW	25	982.49	195.62	--	32.20	1239.96	
GP-45	5/18/21	GW	25	70.89	146.62	--	22.58	--	Bent sampler
GP-46	5/18/21	GW	25	77.24	158.93	--	23.71	--	
GP-47	5/18/21	GW	25	--	--	--	--	--	
GP-48	5/18/21	GW	20	169.8	21.65	--	--	--	
GP-49	5/18/21	GW	20	1103.28	1606.72	--	695.14	613.69	NTA
GP-50	5/18/21	GW	20	709.80	763.28	--	300.29	689.89	NTA
GP-51	5/18/21	GW	20	1508.56	2037.00	--	745.55	3050.55	
GP-52	5/18/21	GW	20	1142.18	841.81	--	292.84	922.17	
GP-53	5/18/21	GW	20	162.91	146.28	--	28.62	382.72	
GP-54	5/18/21	GW	20	1443.17	2173.64	--	516.87	--	NTA
GP-55	5/18/21	GW	20	415.98	413.06	--	39.33	190.50	
GP-56	5/18/21	GW	20	558.75	1560.97	--	649.92	804.72	NTA
GP-57	5/18/21	GW	20	163.73	279.63	--	125.08	--	
GP-58	5/18/21	GW	20	602.88	962.82	--	218.98	263.96	NTA
GP-59	5/18/21	GW	20	943.68	356.57	--	121.27	582.35	NTA
GP-60	5/18/21	GW	20	469.61	452.26	--	203.02	--	NTA
GP-61	5/18/21	GW	20	1104.13	1516.85	--	1159.35	1649.17	NTA
GP-62	5/18/21	GW	20	526.59	529.65	--	152.87	--	NTA
GP-63	5/18/21	GW	20	162.04	162.99	--	117.15	--	NTA
GP-64	5/19/21	GW	20	177.50	347.79	--	197.92	540.35	NTA
GP-65	5/19/21	GW	20	146.18	144.65	--	37.66	103.19	NTA
GP-66*	5/19/21	GW	15	123.28	201.23	--	23.98	--	
GP-67	5/19/21	GW	20	331.80	52.31	--	21.05	--	NTA
GP-68	5/19/21	GW	20	489.73	261.60	--	86.40	213.18	NTA
GP-69	5/19/21	GW	20	472.27	538.53	--	258.85	390.85	NTA
GP-70	5/19/21	GW	20	561.30	561.82	--	408.82	2491.95	NTA
GP-71	5/19/21	GW	20	820.71	484.26	--	181.64	2860.98	
GP-72	5/19/21	GW	20	393.46	1300.56	--	1369.88	2456.55	NTA
GP-73	5/19/21	GW	20	128.77	387.58	--	119.66	597.97	
GP-74	5/19/21	GW	20	--	47.2	--	--	409.24	
GP-75	5/19/21	GW	20	--	25.29	--	--	351.14	
GP-76	5/19/21	GW	20	38.57	25.20	--	12.79	--	
GP-77	5/19/21	GW	20	--	--	--	--	--	
GP-78	5/19/21	GW	20	--	--	--	--	--	
GP-79	5/19/21	GW	20	--	--	--	--	--	

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-80	5/19/21	GW	20	--	--	--	--	97.67	
GP-81	5/19/21	GW	20	--	--	--	--	--	
GP-82	5/19/21	GW	20	--	--	--	--	--	NTA
GP-83	5/19/21	GW	20	--	--	--	--	--	
GP-84	5/19/21	GW	20	--	23.39	--	11.57	--	
GP-85	5/20/21	GW	20	--	--	--	--	--	
GP-86	5/20/21	GW	20	--	--	--	--	--	
GP-87	5/20/21	GW	20	--	--	--	--	--	
GP-88	5/20/21	GW	20	--	--	--	--	178.76	
GP-89	5/20/21	GW	20	--	--	--	--	82.89	
GP-90	5/20/21	GW	15	--	--	--	--	421.96	
GP-91	5/20/21	GW	15	--	--	--	--	--	
GP-92	5/20/21	GW	20	--	--	--	--	--	
GP-93A	5/20/21	GW	13	Dry	Dry	Dry	Dry	Dry	Refusal
GP-93B	5/20/21	GW	16	Dry	Dry	Dry	Dry	Dry	Refusal
GP-94	5/20/21	GW	15	--	--	--	--	129.99	
GP-95A	5/20/21	GW	15	Dry	Dry	Dry	Dry	Dry	
GP-95B	5/20/21	GW	20	140.80	565.57	--	428.55	954.55	NTA
GP-96A	5/20/21	GW	15	Dry	Dry	Dry	Dry	Dry	
GP-96B	5/20/21	GW	20	538.10	211.60	--	76.67	379.25	NTA
GP-97A	5/20/21	GW	15	Dry	Dry	Dry	Dry	Dry	
GP-97B	5/20/21	GW	20	157.23	319.27	--	134.55	119.95	NTA
GP-98A	5/20/21	GW	15	Dry	Dry	Dry	Dry	Dry	
GP-98B	5/20/21	GW	20	331.86	482.80	--	168.82	--	NTA
GP-99	5/20/21	GW	20	358.26	531.00	--	203.37	--	NTA
GP-100	5/20/21	GW	20	718.09	49.49	--	--	255.08	
GP-101	5/20/21	GW	15	294.11	--	--	--	--	NTA
GP-102	5/20/21	GW	15	547.73	--	--	--	--	NTA
GP-103	5/20/21	GW	15	437.94	29.05	--	--	148.32	NTA
GP-104	5/20/21	GW	15	--	--	--	--	--	
GP-105	5/20/21	GW	15	--	--	--	--	--	
GP-106	5/24/21	GW	15	93.94	--	--	--	--	NTA
GP-107	5/24/21	GW	15	790.73	89.79	--	--	--	NTA
GP-108	5/24/21	GW	15	269.61	718.11	160.90	428.42	--	NTA
GP-109	5/24/21	GW	15	1614.74	2570.87	2535.23	3106.24	1169.92	NTA
GP-110	5/24/21	GW	15	1519.45	3507.55	2803.86	3430.91	984.65	NTA
GP-111	5/24/21	GW	15	949.08	2326.77	1380.46	1423.88	186.98	NTA
GP-112	5/24/21	GW	15	206.26	162.37	--	116.47	--	NTA
GP-113	5/24/21	GW	15	--	124.85	--	105.65	--	NTA
GP-114	5/24/21	GW	15	--	--	--	--	--	
GP-115	5/24/21	GW	15	--	--	--	--	--	
GP-116	5/24/21	GW	15	--	--	--	--	--	

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-117	5/24/21	GW	15	--	--	--	--	--	
GP-118	5/24/21	GW	15	--	--	--	--	--	
GP-119	5/24/21	GW	15	--	22.81	--	--	--	
GP-120	5/24/21	GW	15	--	--	--	--	--	
GP-121	5/25/21	GW	25	--	--	--	--	--	
GP-122	5/25/21	GW	25	--	--	--	--	--	
GP-123	5/25/21	GW	25	--	--	--	--	--	
GP-124	5/25/21	GW	25	--	21.72	--	--	--	
GP-125	5/25/21	GW	25	--	--	--	11.38	--	
GP-126	5/25/21	GW	25	--	--	--	--	--	
GP-127	5/25/21	GW	20	--	--	--	--	--	
GP-128	5/25/21	GW	20	18.45	42.54	--	23.48	118.62	
GP-129	5/25/21	GW	20	--	--	--	--	--	
GP-130	5/25/21	GW	20	--	--	--	--	--	
GP-131	5/25/21	GW	15	--	--	--	--	--	
GP-132	5/25/21	GW	15	--	--	--	--	--	
GP-133	5/25/21	GW	15	--	--	--	--	--	
GP-134	5/25/21	GW	15	--	--	--	--	--	
GP-135	5/25/21	GW	15	--	--	--	--	--	
GP-136	5/25/21	GW	25	--	--	--	--	--	
GP-137	5/25/21	GW	25	--	--	--	--	--	
GP-138	5/26/21	GW	5	19.11	127.23	--	41.53	251.22	NTA
GP-139	5/26/21	GW	5	--	--	--	--	--	
GP-140	5/26/21	GW	5	--	--	--	--	--	
GP-141	5/26/21	GW	5	--	--	--	--	--	
GP-142	5/26/21	GW	5	--	--	--	--	--	
GP-143	5/26/21	GW	15	181.78	--	--	--	--	
GP-144	5/26/21	GW	15	--	--	--	--	--	
GP-145	5/26/21	GW	15	--	--	--	--	--	
GP-146	5/26/21	GW	15	--	--	--	--	--	
GP-147	5/26/21	GW	15	--	--	--	--	--	
GP-148	5/26/21	GW	15	--	--	--	--	--	Broke sampler
GP-149	5/26/21	GW	13	513.49	--	--	30.64	--	refusal
GP-150	5/26/21	GW	18	115.78	--	--	--	--	refusal
GP-151A	5/26/21	GW	10	Dry	Dry	Dry	Dry	Dry	
GP-151B	5/26/21	GW	15	--	--	--	--	--	
GP-152	5/26/21	GW	15	--	--	--	--	--	
GP-153	5/26/21	GW	15	--	--	--	--	--	
GP-154	5/26/21	GW	15	--	--	--	--	--	
GP-155	5/26/21	GW	15	--	--	--	--	--	
GP-156	5/26/21	GW	15	--	--	--	--	--	
GP-157	5/27/21	GW	14	--	--	--	--	--	refusal

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-158	5/27/21	GW	18	--	--	--	--	--	refusal
GP-159	5/27/21	GW	25	--	--	--	--	--	
GP-160	5/27/21	GW	25	--	--	--	--	--	
GP-161	5/27/21	GW	20	--	--	--	--	--	
GP-162	5/27/21	GW	20	27.84	--	--	--	--	
GP-163	5/27/21	GW	20	306.88	--	--	--	--	
GP-164	5/27/21	GW	15	--	--	--	--	--	
GP-165	6/21/21	GW	20	--	--	--	--	--	
GP-166	6/21/21	GW	25	--	--	--	--	--	
GP-167	6/21/21	GW	25	--	--	--	--	--	
GP-168	6/21/21	GW	25	--	--	--	--	--	
GP-169	6/21/21	GW	20	--	--	--	--	--	
GP-170	6/21/21	GW	20	--	--	--	--	--	
GP-171D	6/21/21	GW	22	401.58	--	--	--	--	refusal
GP-172	6/21/21	GW	20	--	--	--	--	--	
GP-173	6/21/21	GW	20	--	--	--	--	--	
GP-174	6/21/21	GW	20	--	--	--	--	--	
GP-175D	6/22/21	GW	25	583.97	92.16	--	28.28	638.11	
GP-176D	6/22/21	GW	30	348.41	45.24	--	67.79	344.89	
GP-177D	6/22/21	GW	35	106.57	--	--	--	173.92	Refusal
GP-178D	6/22/21	GW	30	29.87	90.14	--	23.51	155.77	
GP-179D-1	6/22/21	GW	5	refusal	refusal	refusal	refusal	refusal	Concrete
GP-179D-2	6/22/21	GW	6	refusal	refusal	refusal	refusal	refusal	Concrete
GP-179D-3	6/22/21	GW	35	--	--	--	--	--	
GP-180D	6/22/21	GW	40	--	36.75	--	--	--	
GP-181D	6/22/21	GW	35	903.54	216.89	252.28	268.07	913.06	
GP-182D	6/22/21	GW	40	23.13	63.98	--	12.29	--	
GP-183D	6/22/21	GW	45	135.66	186.64	--	25.05	658.63	
GP-184D	6/22/21	GW	50	115.52	158.22	90.94	53.66	753.32	
GP-185D	6/22/21	GW	55	32.96	102.97	84.98	69.01	42.78	
SB-1	4/27/21	Soil	35						See Logs
SB-2	6/22/21	Soil	40						See Logs
TW-1	4/27/21	GW	20	FP	FP	FP	FP	FP	14.45-14.48
TW-2	4/27/21	GW	20	970.70	1655.94	--	1839.06	70.77	NTA
TW-3	4/27/21	GW	20	FP	FP	FP	FP	FP	13.40-14.18
TW-4	4/27/21	GW	20	2427.50	3337.58	--	3745.39	821.16	NTA
TW-5	4/27/21	GW	20	1358.42	5275.83	--	5804.82	3913.24	NTA
TW-6	4/28/21	GW	20	3433.29	4354.78	--	6547.08	383.26	NTA
TW-7	4/28/21	GW	20	FP	FP	FP	FP	FP	14.05-14.06
TW-8	4/28/21	GW	20	3588.66	5799.72	--	5914.86	4062.52	NTA
TW-9	4/28/21	GW	20	3193.12	4538.58	--	5316.66	4484.82	NTA
TW-10	4/28/21	GW	20	FP	FP	FP	FP	FP	14.92-14.93

***contaminant clearly visible on chromatograph but machine failed to identify.

Installed GP-36A and GP-37A, then let those sit for 1 hour while setup of decon pad and lab was completed. Holes were dry. Installed to 25 feet.

Tried GP-66 at 15 feet depth. Took 2 hours to make water and only 10ml recovered.

GP-171D was a deep hole attempt to delineate vertically in that area. Refusal at 22 feet. Collected sample. Did not attempt any further deep delineation in that area.



AUG 05 2021

MR PATEL
311 OAKMONTE CIRCLE
GREENWOOD SC 29649

Re: **Site Specific Work Plan Approval and Storm Drain Inspection Notice to Proceed**
Quick Pantry 19, 1802 South Main Street, Greenwood, SC
UST Permit #04785; CA #64200
Release #2 reported March 9, 2021
Site Specific Work Plan Received July 30, 2021
Greenwood County

Dear Mr. Patel:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed and approved the attached quotes for the storm drain inspection and traffic control submitted by your contractor. The quotes are determined to be fair and reasonable for the work proposed. All work should be conducted in compliance with the most recent revision of the UST QAPP, your contractor's Annual Contractor Quality Assurance Plan, and all applicable regulations. A copy of the current revision of the UST QAPP is available at scdhec.gov/environment/land-waste/underground-storage-tanks/release-assessment-clean/quality-assurance.

The storm drain inspection should begin immediately upon receipt of this letter. The Cost Agreement number shown above has been approved for the amount shown on the enclosed cost agreement form. Please note that the Cost Agreement above does not cover the 1.5% interest on unpaid balances after 30 days and/or any overtime pay.

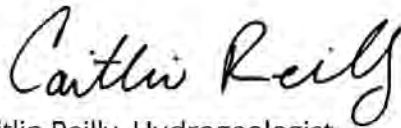
The contractor must provide notification to the UST Project Manager via email 4 days prior to initiation of any site rehabilitation activities. If there are any changes to the schedule, the UST Project Manager must be contacted within 24 hours of those changes.

Your contractor can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. **The Inspection Report, contractor checklist (QAPP Appendix K), and invoice should be submitted to the UST Division within sixty (60) days of the date of this correspondence.** If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available. **All receipts related to the storm drain inspection should be attached to the submitted invoice for review.**

Please note that sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that the SUPERB Account cannot compensate any costs that are not pre-approved. If for any reason additional tasks will be completed, these additional tasks, and the associated cost, must be pre-approved by the UST Division for the cost to be paid. The UST Division reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, the UST Division reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

On all correspondence regarding this site, please reference the UST Permit number above. Should you have any questions regarding this correspondence, please feel free to contact me by phone at (803) 898-3807, by fax at (803) 898-0673, or by e-mail at reillycm@dhec.sc.gov.

Sincerely,

A handwritten signature in black ink that reads "Caitlin Reilly". The signature is written in a cursive, flowing style.

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

enc: Approved Cost Agreement
Approved Quotes
Emailed Proposal

cc: KLM Environmental LLC, PO Box 2704, Goose Creek, South Carolina 29649 (w/ enc)
Mr. Shah Aziz, 311 Oakmonte Circle, Greenwood, South Carolina 29445 (w/ enc)
Technical file (w/ enc)

PROPOSAL
P & S CONSTRUCTION, CO, INC.
2111 TWO NOTCH RD
Lexington, SC 29072
(803)359-9334

SUBMITTED TO: KLM ENVIORNMENTAL

ADDRESS:

DATE: JULY 16, 2021

ATTENTION: CHRIS

We propose hereby to furnish material and labor—complete in accordance with specifications below for the sum of:

Three Thousand Six Hundred Eighty-Three and 00/100 Dollars (\$3683.00). per working 10 hour working day including travel time.

Price includes Combination Truck, Video Inspection Truck, and Crew to clean, and video inspect Storm Drain located in Greenwood SC. Price is for a 10-hour working day to include travel portal to portal.

Price is for work to take place during normal business hours of Mon-Fri 7:30 am to 5:00 pm.

Payment to be made as follows:

Net 30 days; 1.5% interest on unpaid balance after 30 days

All materials are guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from specifications below involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Worker's Compensation Insurance.

Authorized Signature: *Ashleigh Griffith*

Note: This proposal may be withdrawn by us if not accepted within 30 days.

Acceptance of Proposal—The above prices, specifications and conditions are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.

Signature: _____

Date of Acceptance: _____

Estimate

Customer:

Job/Project#

Location: Greenwood, SC

Requestor: Graham Robinson

Contact Phone: 985-789-3065

Email:

Southern Commercial Development

Contact: Sherita Evans

Phone: 803-808-0232

Mobile: 803-509-3827

Fax: 803-490-1511

sevens@scdevelopmentllc.com

Date: 7/28/2021

Item #	Description	Quantity	Unit	Cost	Total Cost Ea.	Notes/Details
1	Traffic Control - Lane Closures - Flagging Operation SCDOT Standard Drawing #610-005-00 - 2-way/3 Men	1.00	DAY	\$1,350.00	\$1,350.00	Per Each Day - 10 hr s/up, 3-Man Crew* Certified Flaggers w/lead w/ equipment per SCDOT standard drawing.
2	Traffic Control - Lane Closures - Flagging Operation SCDOT Standard Drawing #610-005-00 - 3-way/4 Men	1.00	DAY	\$1,650.00	\$1,650.00	Per Each Day - 10 hr s/up, 4-Man Crew* Certified Flaggers w/ lead w/ equipment per SCDOT standard drawing.

*Contractor responsible for maintenance of all equipment/signs on rent

*SCD is available for service/maintenance at \$500 per ea./ service call to jobsite

*500.00 Mobilization/standby fee w/ less than 4-hour notice of cancellation

Traffic Control Equipment Available
Signs, Stands, Cones, Drums, Barricades
Arrow Boards, Message Boards, Lite Plants & Crash Trucks
Lane Closures, Flagging, Sign Installation, Road Closures & Detours

Southern Commercial Development, LLC

1326 S. Lake Drive

Lexington, SC 29073

PHONE:803-808-0232; FAX: 803-490-1511

www.scdevelopmentllc.com

FW: Compiled quotes for Greenwood Drain Clearing

Mark Lee Keller <mkeller131@comcast.net>

Fri 7/30/2021 11:33 AM

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

Cc: 'Graham Robinson' <grahampatrickrobinson@gmail.com>

📎 5 attachments (1 MB)

KLM ENVIRONMENTAL HOURLY RATE FOR COMBINATION AND VIDEO INSPECTION 07-16-2021.pdf; RotoRooter Quote.pdf; Mathis Quote.pdf; QUOTE - Flagging - Graham Robinson - Greenwood Cnty.pdf; KLM Environmental Greenwood SC.docx;


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

Caitlin,

Here is what we have been able to obtain on the drain cleaning and subsequent jetting at Quick Pantry # 19 in Greenwood. We have these three written quotes, plus one verbal. The main issue is, each quote is really by the hour with an unknown total of hours. They don't know what they are up against and neither do we. None of the quotes here included waste disposal which will require a vacuum truck. What will also be needed is a lane closure as the equipment will not fit safely in this area. I have attached two quotes we have received for that. We are waiting on two more. For disposal collection and disposal of the waste, the only way I know to handle that cost since the total time to perform the cleanout is unknown, is to treat it like an AFVR event and use 8 hour AFVR event charges for each day since the vac truck must operate to collect all waste generated, then take that for disposal. There will be soil/trash and groundwater. This is an unknown duration scope and this is the best we can do on pricing due to the unknowns. Let me know what you think. I know we need to find out why we have gasoline dripping out of this pipe and it makes zero sense to me since the pipe is well above the water table here.

Mark

Mark L. Keller, PG
President

 KLM Environmental, LLC

PO Box 2704

Goose Creek, SC 29445

843-870-4285 Cell

From: Graham Robinson <grobinson2019@comcast.net>

Sent: Monday, July 26, 2021 4:53 PM

To: mkeller131@comcast.net

Subject: Compiled quotes for Greenwood Drain Clearing

Mark,

I'm attaching the three quotes we have received for the drain clearing job on Foundry Rd.

The fourth quote was from Drain Pro of SC - \$500 start up fee + \$250 per hour.

I started to draft an email to send to the project managers but I wanted you to take a look first. The quote from Pascon is much better than what Butter told me. They sent their quote in at \$3,683. I was under the impression

that their quote was \$14,000. \$3,683 does not seem to be a bad price considering it includes clean up and video inspection as well. From what Butter has told me, this does not include waste disposal, so we would still have to handle that, but I'd probably need to call and double check on that.

Should I include the Drain Pro quote in the email to the project manager? He would not send me a pdf copy of the quote because he said he claimed he couldn't really do the job unless we mobilized a vac truck to help, so he wanted us to submit a quote ourselves if we intended to use his services. I am unsure of how to communicate that to the project manager or if I should even include it.

Let me know how to proceed,

Graham Robinson
KLM Environmental, LLC
PO Box 2704
Goose Creek, SC. 29445
Phone: 985-789-3065

Approved Cost Agreement**64200**

Facility: 04785 QUICK PANTRY 19

REILLY CM

PO Number:

<u>Task / Description</u>	<u>Categories</u>	<u>Item Description</u>	<u>Qty / Pct</u>	<u>Unit Price</u>	<u>Amount</u>
D MOB/DEMOB		2 PERSONNEL	1.0000	\$451.340	451.34
R MISCELLANEOUS		DRAIN EXPLORATION	1.0000	\$3,683.000	3,683.00
		TRAFFIC CONTROL	1.0000	\$1,350.000	1,350.00
S REPORT PROJECT MANAGEMENT		S REPORT PREP & PROJ. MANAGEMENT	0.1200	\$5,484.340	658.12
Total Amount					6,142.46

Document Receipt Information

☐

Hard Copy

☒

CD

☐

Email

Date Received

8-13-21

Permit Number

04785

Project Manager

Caithlin Reilly

Name of Contractor

KLM Env

Docket Number

42 feet

Document Title

AFVR

Scanned



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

August 10, 2021

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

Re: Quick Pantry # 19
Permit # 04785 CA # 63514

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 August 2nd through August 6th, 2021 at the Quick Pantry # 19 site. The 96-hour AFVR event was conducted on the tank pit well now referred to as MW-1. The well was gauged before and after each event. Results from the 96-hour AFVR event are provided on the attached tables. A total of 207.35 gallons of petroleum were recovered as vapor and 189 gallons of free product was recovered, with 3,204 gallons of contaminated water recovered during this event. Thus far, a total of 934 gallons of free product, 726.82 gallons of product as vapor, and a total of 12,854 gallons of contaminated ground water have been recovered during only four 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 four AFVR events conducted at the site, and the very widespread contamination already known from the initial rounds of site screening during the ongoing 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. The free product at the initiation of the event was measured at 1.30 feet in thickness.

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

8/2/2021 - 8/6/2021
Quick Pantry #19 (USDHEC UST #04785)

Date	Time	Stinger Depth (ft)				Recovery Rate					Air Emissions Concentrations (ppm)		
		MW-1				Vacuum (In. Hg)	Air Flow (cfm)	Temp (F)	Stack Vel. (mph)	Humidity	PID Pre-Treatment	PID Post-Treatment	% Mass Reduction
8/2/2021	11:00	12.21				-22	116.0	99.2	15.1	76.2	5473	92.4	98.31
8/2/2021	11:30	13				-22	112.9	107.9	14.7	74.9	14783	158.3	98.93
8/2/2021	12:00	14				-22	116.8	118.4	15.2	75.2	15000	192.4	98.72
8/2/2021	12:30	15				-22	119.1	120.9	15.5	79.1	15000	201.4	98.66
8/2/2021	13:00	16				-22	109.9	118.9	14.3	76.6	15000	238.7	98.41
8/2/2021	13:30	17				-22	113.7	121.5	14.8	72.1	15000	227.9	98.48
8/2/2021	14:00	18				-22	116.8	121.1	15.2	75.4	15000	246.1	98.36
8/2/2021	14:30	19				-22	111.4	124.9	14.5	78.5	15000	247.5	98.35
8/2/2021	15:00	20				-22	114.5	122.4	14.9	73.2	15000	231.7	98.46
8/2/2021	15:30	21				-22	116.8	124.2	15.2	69.8	15000	238.4	98.41
8/2/2021	16:00	22				-22	113.7	123.6	14.8	72.6	15000	242.8	98.38
8/2/2021	16:30	23				-22	111.4	125.3	14.5	73.2	15000	239.2	98.41
8/2/2021	17:00	24				-22	117.5	122.5	15.3	70.4	15000	252.5	98.32
8/2/2021	17:30	25				-22	119.1	124.9	15.5	68.3	15000	243.4	98.38
8/2/2021	18:00	26				-22	112.2	121.7	14.6	66.9	15000	239.8	98.40
8/2/2021	18:30	27				-22	114.5	120.3	14.9	68.5	15000	225.1	98.50
8/2/2021	19:00	28.5				-22	111.4	123.7	14.5	72.8	15000	223.9	98.51
8/2/2021	20:00	28.5				-22	117.5	121.1	15.3	75.1	15000	240.7	98.40
8/2/2021	21:00	28.5				-22	113.7	122.9	14.8	71.5	15000	256.2	98.29
8/2/2021	22:00	28.5				-22	119.1	120.5	15.5	69.8	15000	253.5	98.31
8/2/2021	23:00	28.5				-22	116.8	121.4	15.2	73.6	15000	236.1	98.43
8/2/2021	0:00	28.5				-22	121.4	118.7	15.8	78.4	15000	242.8	98.38
8/3/2021	8:00	28.5				-22	117.5	116.9	15.3	77.3	15000	246.5	98.36
8/3/2021	9:00	28.5				-22	113.7	118.3	14.8	72.8	15000	237.2	98.42
8/3/2021	10:00	28.5				-22	119.1	121.5	15.5	76.1	15000	238.7	98.41
8/3/2021	11:00	28.5				-22	116.8	120.1	15.2	79.4	15000	227.4	98.48
8/3/2021	12:00	28.5				-22	120.6	123.8	15.7	75.7	15000	222.6	98.52
8/3/2021	14:00	28.5				-22	119.1	121.6	15.5	72.9	15000	229.2	98.47
8/3/2021	16:00	28.5				-22	120.6	124.8	15.7	77.3	15000	223.5	98.51
8/3/2021	18:00	28.5				-22	112.9	120.3	14.7	73.7	15000	203.7	98.64
8/3/2021	20:00	28.5				-22	121.4	122.6	15.8	71.9	15000	198.3	98.68
8/3/2021	22:00	28.5				-22	117.5	119.8	15.3	74.4	15000	205.8	98.63
8/3/2021	0:00	28.5				-22	119.1	117.6	15.5	69.7	15000	183.4	98.78
8/4/2021	8:00	28.5				-22	117.5	116.2	15.3	71.8	15000	201.5	98.66
8/4/2021	10:00	28.5				-21	120.6	119.7	15.7	69.2	15000	201.4	98.66
8/4/2021	12:00	28.5				-21	112.9	121.5	14.7	66.5	15000	181.5	98.79
8/4/2021	14:00	28.5				-21	110.6	125.3	14.4	62.1	15000	174.8	98.83
8/4/2021	16:00	28.5				-21	114.5	121.6	14.9	64.7	15000	183.2	98.78
8/4/2021	18:00	28.5				-21	112.9	124.9	14.7	61.4	15000	182.6	98.78
8/4/2021	20:00	28.5				-21	117.5	120.5	15.3	59.6	15000	178.2	98.81
8/4/2021	22:00	28.5				-22	112.2	122.1	14.6	57.9	15000	174.6	98.84
8/4/2021	0:00	28.5				-22	116.0	119.3	15.1	60.2	15000	174.3	98.84
8/5/2021	8:00	28.5				-22	113.7	117.9	14.8	56.3	15000	159.8	98.93
8/5/2021	10:00	28.5				-22	110.6	119.4	14.4	59.1	14832	153.1	98.97
8/5/2021	12:00	28.5				-22	114.5	122.8	14.9	62.9	15000	166.5	98.89
8/5/2021	14:00	28.5				-21	117.5	126.5	15.3	60.1	15000	163.5	98.91
8/5/2021	16:00	28.5				-21	112.9	124.1	14.7	65.7	15000	163.1	98.91
8/5/2021	18:00	28.5				-21	114.5	127.7	14.9	62.3	15000	156.7	98.96
8/5/2021	20:00	28.5				-21	119.1	124.3	15.5	69.5	15000	158.9	98.94
8/5/2021	22:00	28.5				-21	116.0	121.8	15.1	73.8	15000	151.5	98.99
8/5/2021	0:00	28.5				-22	117.5	118.5	15.3	70.2	15000	169.4	98.87
8/6/2021	8:00	28.5				-22	112.9	116.1	14.7	67.4	15000	193.6	98.71
8/6/2021	10:00	28.5				-22	116.8	119.7	15.2	72.7	15000	181.2	98.79
8/6/2021	11:00	28.5				-22	120.6	122.4	15.7	70.1	15000	174.8	98.83
							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	12.21	13.51		27.21

Site Location: Quick Pantry #19	Date: 8/2/2021	
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

[illegible]

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
8/2/2021

Site Location: Quick Pantry #19

Date: 8/3/2021 – 8/4/2021

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

AFVR Contractor:
Vacuum Recovery
Technologies, LLC

Field Personnel:
KLM Environmental, LLC: Chris

General Weather Conditions:
Rain/Cloudy

Target Well				Adjacent Well (every 2 Hrs)					
Time	MW-1								
	Hg	Hg	Hg	DTW	Hg	DTW	Hg	DTW	Hg
8/3/2021									
8:00	-14								
10:00	-16								
12:00	-16								
14:00	-15								
16:00	-16								
18:00	-16								
20:00	-15								
22:00	-15								
24:00	-16								
8/4/2021									
8:00	-14								
10:00	-15								
12:00	-16								
14:00	-16								
16:00	-14								
18:00	-16								
20:00	-16								
22:00	-15								
24:00	-16								



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
8/3/2021 – 8/4/2021

Site Location: Quick Pantry #19

Date: 8/5/2021 – 8/6/2021

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

AFVR Contractor:
Vacuum Recovery
Technologies, LLC

Field Personnel:
KLM Environmental, LLC: Chris

General Weather Conditions:
Rain/Cloudy

Target Well				Adjacent Well (every 2 Hrs)					
Time	MW-1								
	Hg	Hg	Hg	DTW	Hg	DTW	Hg	DTW	Hg
8/5/2021									
8:00	-16								
10:00	-16								
12:00	-16								
14:00	-16								
16:00	-16								
18:00	-14								
20:00	-14								
22:00	-16								
24:00	-15								
8/6/2021									
8:00	-15								
10:00	-15								
11:00	-16								



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
8/5/2021 – 8/6/2021

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

8/2/21 - 8/6/21

$$\text{PPM}_w = \text{PPM}_{\text{measured}} = 14816.44$$

$$\text{PPM}_d = \text{PPM}_w / (1 - Bws) = 15813.49$$

$$\text{PPM}_c = (\text{PPM}_d)(K) = 63253.97$$

$$C_{c:m} = \text{PPM}_c (M_c / K_3) = 31561.29$$

$$C_c = C_{c:m} (62.43 \times 10^{-9}) = 0.00197$$

$$\text{PMR}_c = C_c (Q_{\text{std}})(60) = 11.66474$$

$$\text{PMR}_g = (\text{PMR}_c)(M_g / M_{cg}) = \mathbf{13.49965 \text{ lbs of emissions per hour}}$$

207.3546 Gallons of emissions per 96 hours

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:		Phone ()	
		P O #:	
3. Agent of Generator and Mailing Address:		Phone ()	
		P O #:	
4. Transporter Company Name:		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	
		No. Type	
a. Non-Hazardous, non-regulated waste water			
Quick Pasty #19 (189 Gallons gasoline)		3393 Gals 62.5"	
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:		Signature:	
		Date:	
10. Transporter Acknowledgement of Receipt of Materials			
Printed/Typed Name:		Signature:	
STEVEN HAWK		8-9-21	
11. Discrepancy Indication space:			
12. Facility Owner or Operator: Certification of Receipt of Materials			
Printed/Typed Name:		Signature:	
DANIEL WARD		8-9-21	

White - Facility

Yellow - Office

Pink - Transporter

Blue - Generator

26699



Aug 10, 2021, 8:34 AM



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



KLM Environmental, LLC

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

Figure 2
Sample Location Map
Quick Pantry # 19
Greenwood, SC
Project # 21547



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 ³ /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.



Groundwater Sampling Audit Form
Underground Storage Tank Management Division

RESULTS:

☒ Satisfactory
☐ Issues

Date: 8/26 Project Manager: Caitlin Reilly DHEC Field Staff: Malayika Vincent
Contractor: KLM Environmental Contractor Field Staff: Gary S
Site Number: 04785 Site Name: Quick Pantry
Time Arrived at Site: 1121 Time Leaving Site: 1300 Weather Conditions: sunny, hot humid Temperature: 86°F

Well allowed to equilibrate before sampling? ☐ YES ☐ NO not observed
Water level obtained correctly? ☐ YES ☐ NO not observed
New plastic sheeting around each well? ☐ YES ☐ NO Plexiglass
New pair of gloves worn for each well? ☒ YES ☐ NO
Meter calibration log(s) present? ☒ YES ☐ NO - from yesterday

Method of Data Collection ☒ Field Data Sheets ☐ Log Book
Method of Purging/Sample Collection ☒ Bailer ☐ Pump ☐ Other: _____
New bailer/string or tubing for each well? ☒ YES ☐ NO
Field parameters obtained correctly? ☒ YES ☐ NO Information recorded? ☒ YES ☐ NO
Meter Information (include type and serial number): Horiba U-52 #W22MV13L for all
pH/Conductance: _____ DO: _____ Turbidity: _____ Temperature: _____
Adequate purge completed? ☒ YES ☐ NO ⊗ very slow recharge at this site.
Purge water maintenance? ☐ YES ☐ NO not observed
Appropriate sample handling (cooler w/ wet ice, bags, bubble wrap)? ☒ YES ☐ NO
Decontamination of all equipment between wells? ☐ YES ☐ NO n/a not observed
Signature: [Signature] Date: 8/26/2021

Notes: FP: MW-5, 4, 1, 2, 3, 9, 8, 7, 12, 7

RW-3, 2, 1

MW-11 when purged did not go dry.

Wells were purged 8/25/21 slow recharge so sampling 8/26/21 (today)



RE: [EXTERNAL EMAIL] JUST #04785 Data

Mark Lee Keller <mkeller131@comcast.net>

Thu 8/5/2021 1:38 PM

To: 'Julie Wilkie' <julie.wilkie@gwdcity.com>; Thrash, Ashleigh <thrasham@dhec.sc.gov>; Gorman, Angela <gormanak@dhec.sc.gov>; Reilly, Caitlin M. <reillycm@dhec.sc.gov>

3 attachments (4 MB)

Storm Sewer Diagram.pdf; David & Floyd Survey Map Probing.pdf; Probing Map As-Built After Last Round Map 1.pdf

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

Good afternoon,

I looked over the map you sent and it did not look the same as my mapping and didn't work with my observations in the field. I have looked through our project notes and I have attached a map to this email. This map was produced by Davis & Floyd in 2019 titled Storm Sewer Diagram. I snipped the relevant portion. I have added the red arrows as well as the red dots to signify the storm drain. Nothing on this map indicates the pond is tied to this storm drain. The area highlighted in yellow is the pond. David & Floyd noted a broken manway and a short run of pipe but did not tie it back into the storm drain as shown. It is our observation that whatever feeds the storm drain that fills the pond, the pond then overflows into the storm drain in red. I collected video of that occurrence during a storm event on site where we spend 4 weeks conducting the investigation. The storm drain is believed to connect from the manhole to the exposed open drain by an underground piping which we identified by using hand augers along that area in an attempt to collect samples for screening.

The second map titled Davis & Floyd Survey Map Probing was created for us as part of this assessment. We requested an early survey from the Project Manager as the site was becoming too large to keep track of the probe points and it gets overgrown quickly. This survey shows the route of the "creek" that flows across the Smith property. It is a storm drain connected to Main Street South across from the County SCDHEC building. This water flows from Main Street South across the Smith property, under Foundry Rd., down the storm drain along foundry, cuts across Foundry at the Housing Authority, flows in an underground RCP pipe across the housing authority property, crosses 96 Highway, and ends in the very large drainage basin between 96 Hwy and New Markey Street.

We have obviously conflicting maps for the property and honestly what is occurring in the confluence area is confusing for everyone involved. We have spoken to a lot of people in the course of the project and I believe its universally agreed the Foundry had a lot of stuff going on in, under, and around it regarding utilities that were known to their operation. We are trying to track down one piece of the puzzle by seeing inside the drainage pipe that gasoline has been identified. That is proving very difficult.

It does not appear to be tied into this drainage system. I have attached a 3rd map showing the results of our initial assessment. The contaminant plume is shown in black. We have it fairly defined that we can tell. Wells are being installed currently to get proper analytical data. Some of those may need to be abandoned as development presses forward on the foundry site but it was necessary at this time to delineate the gasoline. Any other contaminants that may be present would fall under the VCC from the Foundry on the Foundry site. We are not permitted under the SUPERB program to investigate those.

We would request assistance in determining what exactly is feeding the pond as these maps differentiate in that regard. We do not have access to internal maps in the public works department to assist us any further. The resources of the SUPERB program are extremely restricted to a very specific task of assessment and remediation of the contaminants from a UST release. Any other sources or contaminant types can not be addressed using money from this account unfortunately. The state laws

govern what Caitlin and Ashley can and can not allow. We are working within those confines while trying to produce as much information as possible that can be usable by everyone.


Please let me know if there is any assistance the City can provide in helping to flesh out what goes where and what feeds what by what piping for the drainage flow beyond what we have presented here. We have noted multiple drain grates on the Foundry property filled with soil with no indication as to where they drain. I am certain there are surprises ahead for all of us.

Please feel free to ask any questions and we will do our best to answer them, if we can.

Thanks!

Mark

Mark L. Keller, PG
President

 **KLM Environmental, LLC**

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

From: Julie Wilkie <julie.wilkie@gwdcity.com>
Sent: Wednesday, August 4, 2021 4:23 PM
To: Thrash, Ashleigh <thrasham@dnec.sc.gov>; Gorman, Angela <gormanak@dnec.sc.gov>
Cc: mkeller131@comcast.net
Subject: RE: [EXTERNAL EMAIL] UST #04785 Data

Afternoon All –

I met on site with DHEC & Mark's staff this afternoon. Couple of things:

1. We definitely were talking about 2 different lines on our earlier call. Line 1, highlighted in pink on the attached, is the line of concern to me. While on site, it was confirmed that everyone agrees there is an odor coming from that box. Mark, your on site guy (I didn't get his name), indicated that he only became aware of the line yesterday. He was going to discuss with you, getting bids to video the line. My staff will assist with the removal of the concrete lid. Additionally, it was discussed that DHEC or Mark's staff (or maybe both) were going to go onto our site at the pipe outfall and get a water sample from that area.
2. Pipe #2 is east of the line in pink. This is the line that is stubbed out of the side of the embankment (Pics attached). Mark's staff indicated they had tried to video the line but hit silt. They are exploring jetting the line to remove the silt, in order to video to determine where it goes. At this point, no one knows if it is connected to anything. I spoke with our engineers for the park (Davis & Floyd), who were going to determine if they have any data on that line. I will let you know when I hear back from them. I understand this was the line that Mark was mentioning on the call today.

I apologize for all my pictures and screenshots, but wanted to provide you with some quick info that may clarify some things. I know it was helpful for me to be on site with both staffs. The on site folks all got Erik Leary's (City PW Director) phone number and will be communicating with him as needed. I will continue to communicate with the 3 of you. If there is anything else that I can help clarify, please let me know.

THANKS!

Julie

Julie M. Wilkie
City Manager
864/942.8410

From: Thrash, Ashleigh <thrasham@dhec.sc.gov>
Sent: Wednesday, August 4, 2021 1:40 PM
To: Gorman, Angela <gormanak@dhec.sc.gov>; Julie Wilkie <julie.wilkie@gwdcity.com>
Cc: mkeller131@comcast.net
Subject: [EXTERNAL EMAIL]UST#04785 Data

*******WARNING: The sender of this email is outside of our network. Ensure you are familiar with the sender and are expecting this email, otherwise, DO NOT REPLY and DO NOT CLICK on any LINK or ATTACHMENT and DELETE THIS EMAIL IMMEDIATELY**
!!!!*****

Angela and Julie,

Attached is the screening data and some figures that Mark sent over earlier today. Please let me know if you want to discuss. Thanks Mark for providing these!

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 [Facebook](#) [Twitter](#)



Greenwood County, SC



June 11, 2021

No Contamination

181D/182D/183D
184D/185D/SB-2

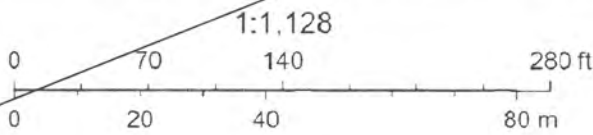
Debris Field

178D/179D
/180D/SB-3

181D/182D/183D
184D/185D/SB-2

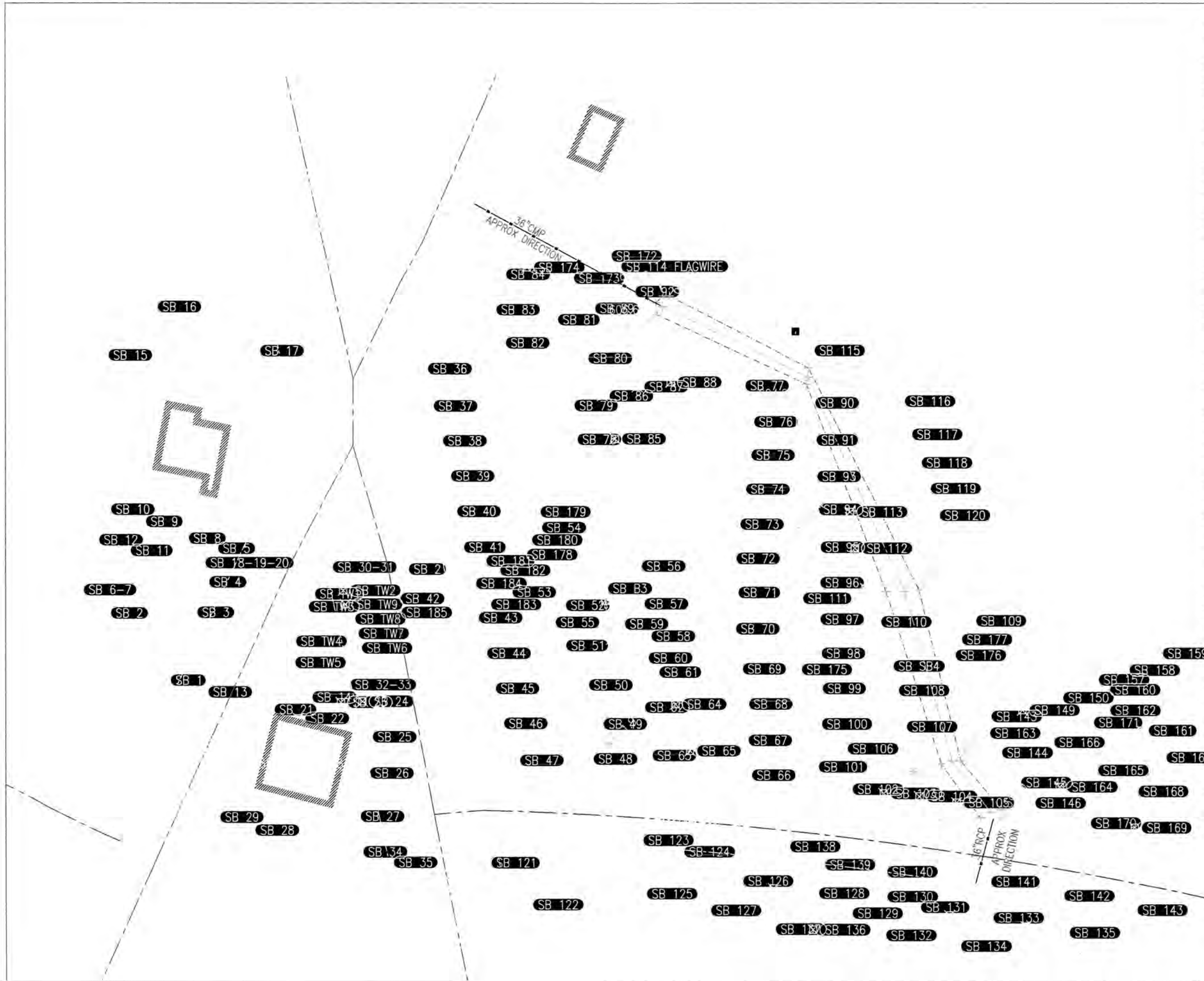
171D

See Map 2 for More Locations

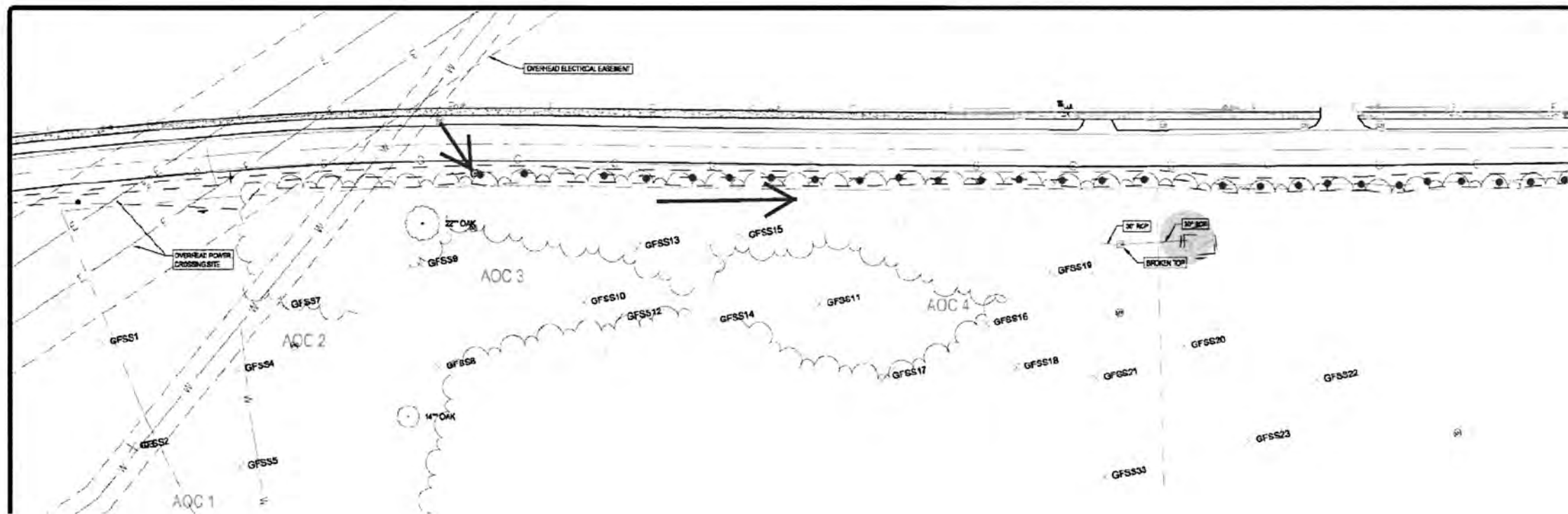


Map Layers, Greenwood County

Disclaimer: Map and parcel data are believed to be accurate, but accuracy is not guaranteed. This is not a legal document and should not be substituted for a title search, appraisal, survey, or for zoning verification.



Point Table			Point Table			Point Table		
Point #	Elevation	Description	Point #	Elevation	Description	Point #	Elevation	Description
1000	629.71	SB 1	1084	599.76	SB 146	1159	606.23	SB 94
1001	630.68	SB 2	1085	600.65	SB 164	1160	605.93	SB 93
1002	628.85	SB 3	1086	614.30	SB 121	1161	605.60	SB 91
1003	626.50	SB 4	1087	611.72	SB 122	1162	605.52	SB 90
1004	625.29	SB 5	1088	610.82	SB 123	1166	604.10	SB 115
1005	625.81	SB 16-19-20	1089	610.20	SB 124	1171	606.62	SB 66
1006	626.64	SB 6-7	1090	609.54	SB 125	1172	608.65	SB 67
1007	625.34	SB 8	1091	609.85	SB 126	1173	610.68	SB 68
1008	625.45	SB 9	1092	609.60	SB 127	1174	609.73	SB 69
1009	627.24	SB 11	1093	609.81	SB 137	1175	610.08	SB 70
1010	627.59	SB 12	1094	610.09	SB 136	1176	608.39	SB 71
1011	625.42	SB 10	1095	609.29	SB 128	1177	608.36	SB 72
1012	621.04	SB 15	1096	602.86	SB 138	1178	607.37	SB 73
1013	621.32	SB 16	1097	608.89	SB 129	1179	606.92	SB 74
1014	621.02	SB 17	1098	606.23	SB 130	1180	606.84	SB 75
1019	623.65	SB 30-31	1099	600.70	SB 140	1181	608.56	SB 76
1020	625.58	SB 13	1100	601.44	SB 139	1182	606.93	SB 77
1021	625.40	SB 21	1101	598.85	SB 141	1183	612.36	SB 48
1022	624.82	SB 22	1102	597.82	SB 142	1184	612.49	SB 49
1023	624.76	SB 14	1103	597.25	SB 143	1185	613.13	SB 50
1024	623.82	SB 23	1104	614.90	SB 47	1186	613.26	SB 51
1025	623.88	SB 32-33	1105	614.71	SB 46	1187	612.64	SB 52
1026	622.10	SB 24	1106	615.26	SB 45	1188	611.78	SB 53
1027	622.30	SB 25	1107	615.24	SB 44	1189	611.89	SB 54
1028	622.49	SB 26	1108	615.79	SB 43	1190	611.93	SB 179
1029	623.27	SB 27	1109	615.56	SB 42	1191	611.88	SB 180
1030	624.87	SB 28	1110	615.38	SB 185	1192	611.95	SB 178
1031	625.30	SB 29	1111	615.36	SB 184	1193	612.37	SB 83
1032	623.35	SB 34	1112	615.39	SB 183	1194	612.71	SB 55
1033	621.17	SB 35	1113	615.57	SB 182	1195	613.24	SB 59
1034	622.85	SB TW6	1114	615.56	SB 181	1196	613.47	SB 60
1035	623.21	SB TW7	1115	615.76	SB 2	1197	612.74	SB 62
1036	622.92	SB TW8	1116	615.88	SB 41	1198	611.14	SB 63
1037	622.97	SB TW9	1117	616.09	SB 40	1199	609.80	SB 65
1038	623.01	SB TW2	1118	615.84	SB 39	1200	612.91	SB 64
1039	624.02	SB TW1	1119	615.76	SB 38	1201	613.47	SB 61
1040	624.25	SB TW3	1120	615.52	SB 37	1202	613.21	SB 58
1041	625.23	SB TW4	1121	615.78	SB 36	1203	612.06	SB 57
1042	625.39	SB TW5	1134	601.42	SB 106	1204	611.24	SB 56
1061	599.46	SB 105	1135	602.34	SB 107	1208	604.48	SB 120
1062	600.75	SB 104	1136	602.89	SB 108	1209	605.20	SB 119
1063	602.13	SB 103	1137	603.51	SB 84	1210	606.38	SB 118
1064	603.03	SB 102	1138	603.68	SB 175	1211	605.81	SB 117
1065	601.00	SB 170	1139	603.61	SB 176	1212	606.04	SB 116
1066	601.23	SB 169	1140	603.80	SB 177	1214	605.30	SB 114 FLAGWIRE
1067	602.17	SB 168	1141	603.89	SB 109	1215	607.36	SB 88
1068	603.36	SB 166	1142	604.54	SB 110	1216	608.04	SB 87
1069	604.32	SB 162	1143	604.65	SB 111	1217	608.82	SB 86
1070	605.17	SB 157	1144	603.86	SB 112	1218	609.00	SB 79
1071	607.02	SB 158	1145	604.84	SB 113	1219	609.18	SB 78
1072	604.84	SB 161	1147	605.39	SB 131	1220	608.73	SB 85
1073	604.67	SB 167	1148	604.87	SB 132	1221	608.91	SB 80
1074	607.65	SB 160	1149	603.86	SB 133	1223	607.61	SB 92
1075	607.05	SB 159	1150	602.70	SB 134	1230	608.46	SB 172
1076	601.93	SB 165	1151	602.50	SB 135	1231	608.85	SB 173
1077	603.82	SB 163	1152	604.64	SB 101	1232	608.77	SB 89
1078	603.83	SB 171	1153	606.26	SB 100	1233	608.84	SB 81
1079	603.10	SB 150	1154	608.10	SB 99	1234	608.97	SB 83
1080	601.85	SB 149	1155	608.07	SB 98	1235	608.92	SB 82
1081	601.95	SB 143	1156	608.17	SB 97	1236	608.84	SB 174
1082	600.52	SB 144	1157	607.42	SB 96	1237	609.00	SB 84
1083	600.29	SB 145	1158	606.66	SB 95			



Re: UST # 04785

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

Wed 8/4/2021 4:58 PM

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

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

Thank you Mark. I figured you had knowledge of it - I think I have seen a map with what you are referring to but I can't find it. Hopefully you will be able to find something to clear it all up. I feel like we went through all this already once but I appreciate your patience while we try to clear it up again!

No worries about the city camera - Caitlin will get the quote approved for you when she gets back.

Thanks again!

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 [Facebook](#) [Twitter](#)



From: Mark Keller <mkeller131@comcast.net>

Sent: Wednesday, August 4, 2021 4:44 PM

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

Cc: 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. ***

The city decline to use their camera because of the gasoline

I will respond to the email Julie sent. Chris was not aware of the pipe but we all have been. I am going to look for the map we had showing a different route for the utilities than the one she presented. The pond on their site is fed from a drainage pipe somewhere on the foundry property. It then overflows out into the storm drainage when it rains. I took a video of this occurrence while storming on site. There is much confusion about this but I have seen it first hand and their understanding of the flow does not appear to be right. I will copy both of you on the email.

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 Aug 4, 2021, at 1:37 PM, Thrash, Ashleigh <thrasham@dhec.sc.gov> wrote:

Sounds great! I can't find that map we had before with all of the sewers marked. Still looking. I'll go ahead and send over the maps you sent me earlier. Thanks for your help on the call!

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 [Facebook](#) [Twitter](#)



From: Mark Keller <mkeller131@comcast.net>
Sent: Wednesday, August 4, 2021 1:35 PM
To: Thrash, Ashleigh <thrasham@dhec.sc.gov>
Cc: 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. ***

I spoke to Chris and he will be at the storm drain at 2:00 to show the city the particulars. He is going to show her the drain line we need to get the camera in. Hopefully they can assist so we don't waste a bunch of funding with the only quotes we were able to obtain to do it. May be a silver lining in at least one of the complaints.

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 Aug 4, 2021 at 10:09 AM, Thrash, Ashleigh <thrasham@dhec.sc.gov> wrote,

Thank you 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 [Facebook](#) [Twitter](#)



From: Mark Lee Keller <mkeller131@comcast.net>
Sent: Wednesday, August 4, 2021 10:02 AM
To: Thrash, Ashleigh <thrasham@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. ***

Ashley,

Attached are two maps showing the probing locations. The area we investigated is too large to stay on one map and be useful. Map #2 was specifically done on the housing authority property to ensure contaminants were not running down the drainage area, leaking into the subsurface, and affecting that property in general. Also attached is the data table from the field screening using the mobile lab. No contaminants are found on the housing authority property. Please take a look at these and let me know if you have any questions on it.

Thank you

Mark

Mark L. Keller, PG

President



KLM Environmental, LLC

PO Box 2704

Goose Creek, SC 29445

843-870-4285 Cell

Re: [EXTERNAL EMAIL]Re: [EXTERNAL EMAIL]Greenwood Site

Julie Wilkie <julie.wilkie@gwdcity.com>

Tue 8/3/2021 4:59 PM

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

Cc: Gorman, Angela <gormanak@dhec.sc.gov>; 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. ***

??

Julie

Sent from my iPhone

On Aug 3, 2021, at 4:58 PM, Thrash, Ashleigh <thrasham@dhec.sc.gov> wrote:

*******WARNING: The sender of this email is outside of our network. Ensure you are familiar with the sender and are expecting this email, otherwise, DO NOT REPLY and DO NOT CLICK on any LINK or ATTACHMENT and DELETE THIS EMAIL IMMEDIATELY !!!!*******

Hi Julie,

I just got off the phone with the contractor and he is only available before 2. Are you available anytime between 10-12?

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 [Facebook](#) [Twitter](#)



From: Julie Wilkie <julie.wilkie@gwdcity.com>

Sent: Tuesday, August 3, 2021 4:40 PM

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

Cc: Gorman, Angela <gormanak@dhec.sc.gov>; Reilly, Caitlin M. <reillycm@dhec.sc.gov>

Subject: Re: [EXTERNAL EMAIL]Greenwood Site

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

Sure! Does 2pm work?

Julie

Sent from my iPhone

On Aug 3, 2021, at 4:20 PM, Thrash, Ashleigh <thrasham@dhec.sc.gov>
wrote:

*******WARNING: The sender of this email is outside of our network. Ensure you are familiar with the sender and are expecting this email, otherwise, DO NOT REPLY and DO NOT CLICK on any LINK or ATTACHMENT and DELETE THIS EMAIL IMMEDIATELY !!!!*******

Hi Julie!

I am the Section Manager for the Assessment & Non-Permitted Petroleum Section at DHEC. I just left you a voicemail regarding the above Underground Storage Tank Facility and stormdrain issue. I was hoping you would be available for a call tomorrow to discuss with the three of us and the consultant for the site?

Hope you have a great evening!

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
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