D H E C
PROMOTE PROTECT PROSPER
C. Earl Hunter, Commissioner
Promoting and protecting the health of the public and the environment.

March 24, 2008

MR JIMMY WILLIAMS
COMMERCIAL HOLDINGS LLC
1033 KENSINGTON LAKE DR
EASLEY SC 29622-9365

Re: Letter of Concern
81 Food Market, 1502 East Greenville Street, Anderson, SC
UST Permit # 12458
Correspondence received March 14, 2008
Anderson County

Dear Mr. Williams:

As requested by Mr. Jeff DeWitt, with SPERO Corporation, an update on the environmental conditions at the above referenced facility is provided.

We received a report on November 10, 1992 documenting petroleum chemicals of concern in the subsurface in the vicinity of the underground storage tank. Our records revealed that three underground storage tank (UST) owned by The Pantry here been removed from the ground in April 1991. In response to the initial report of petroleum impact, we directed The Pantry, as the party responsible for performing this activity under state and federal law, to assess the extent and severity of the contamination. An initial assessment was conducted at the referenced facility. The plume is currently being assessed with a report of finding due August 2008.

This release of petroleum products from the USTs is qualified to receive funding under the conditions of the State Underground Petroleum Environmental Response Bank (SUPERB) Act. This means that reasonable costs up to $1,000,000 can be paid by the SUPERB account for site rehabilitation actions associated with this release. To date, a total of $72,193.56 has been paid toward the $1,000,000.

Should the potential exist for petroleum chemicals of concern to migrate onto an adjacent property, the UST owner/operator and the Department may require access during reasonable hours to perform necessary rehabilitation activities. All rehabilitation activities associated with the petroleum impact are the responsibility of the The Pantry. You should be aware that there are currently no laws or regulations that prohibit the use or development of adjacent properties and properties where petroleum release has occurred.

If you have any questions, please do not hesitate to call me at (803) 896-6669.

Sincerely,

Arthur Shrader, Hydrogeologist
Assessment Section
Underground Storage Tank Program
Bureau of Land & Waste Management

cc: Mr. DeWitt, SPERO Corporation, 119 S. E. Main Street, Simpsonville, SC 29681
Technical File

UST PROGRAM
DOCKETING # 10 fech

ATC ASSOCIATES INC.
Engineering Individual Solutions

2725 East Millbrook Road, Suite 121
Raleigh, North Carolina 27604
919-871-0999
Fax 919-871-0336
www.atcassociates.com

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March 13, 2008

SENT VIA CERTIFIED MAIL No. 7005 1160 0004 4741 8927

Tom.
Ken signed + we are mailing today 5-5-08.
Kristi

NHI Properties LLC
P.O. Box 1327
Anderson, South Carolina 29622-1327

Re: Environmental Assessment
Former Pantry #585
1502 E. Greenville Street
Anderson, Anderson County, South Carolina
UST Permit #12458

Dear Property Owner:

ATC Associates Inc. (ATC) is conducting Environmental Assessment at the Former Pantry #585 on behalf of the South Carolina Department of Health and Environmental Control (SCDHEC) and The Pantry, Inc. In order to conduct this environmental assessment, the installation of two groundwater monitoring wells is required on your property by SCDHEC. According to the Anderson County Geographic Information System (GIS) website, you are the property owner of 1501 E. Greenville Street and identified as Parcel No. 1480001010. A map identifying the proposed monitoring well locations is enclosed as an attachment.

The scope of work is to advance two borings, one to 20 feet and the second to 40 feet, in order to collect a groundwater sample at each location. Each boring will be backfilled with bentonite slurry mix and capped with native soils. The groundwater samples will be submitted for laboratory analysis and pending laboratory results, up to two monitoring wells may be installed on your property.

One monitoring well will be installed to an approximate depth of 20 feet and the second well will be installed to an approximate depth of 40 feet. The two wells are required to assess the groundwater quality at two separate intervals. ATC will supervise a licensed South Carolina driller during monitoring well installation on your property. ATC expects the drilling of the monitoring wells to be completed within one day. Following monitoring well installation, ATC will collect samples on a periodic basis.

NHI Properties LLC, as the property owner, will not be held responsible or liable for any damages or expenses for injury to persons or property while ATC is on the premises. SCDHEC has requested the completion of this assessment in a timely manner and believes it is in your best interest to allow the monitoring well installation. If you have any questions regarding SCDHEC authorization to conduct these activities, please contact Mr. Arthur Shrader, SCDHEC Project Manager, at 803-896-6669 and reference UST Permit #12458.

UST DOCKET
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Please provide your authorization and approval by signing below and returning the signature page in the enclosed envelope by **March 31, 2008**. Acknowledgment of this form is required by SCDHEC. Denial of site access will be forwarded to SCDHEC for their pursuit of site access.

If you have any questions or would like to further discuss any aspect of this site access request, please contact me at 800-653-8248, or Mr. Arthur Shrader, SCDHEC Project Manager at 803-896-6669.

Sincerely,
ATC Associates Inc.

David Lubell
Project Scientist

Enclosure

cc: Ms. Renee' Thomas, The Pantry, Inc.
Mr. Arthur Shrader, SCDHEC

☒ _____
Access approved

☐ _____
Access denied

Phone number_____
(If you wish to be notified prior to field activities)

Property owner is
NHI Anderson LLC
P.O. Box 1102
Murfreesboro, TN
37133-1102

Any future correspondence should be addressed to
Kristi Gaines

(Note: Location of monitoring wells to be mutually agreed upon by property manager and ATC. Both parties to be ~~reason~~ commercially reasonable.)

ATC ASSOCIATES INC.
Engineering Individual Solutions

400 Northeast Drive, Unit Q
Columbia, South Carolina 29203
803-735-0003
Fax 803-735-0443
www.atcassociates.com

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TANK PROGRAM

November 20, 2008

Mr. Art Shrader, Hydrogeologist
SCDHEC – UST Program
Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201

Re: 81 Food Mart
(Former Pantry #585)
1502 East Greenville Street
Anderson, South Carolina
Anderson County
UST Permit #12458

Dear Mr. Shrader:

Attached is the Groundwater Assessment Report for the 81 Food Mart/Former Pantry #585. Should you have any questions or require additional information, please contact me at 735-0003 or Jake Whittle at 704-529-3200.

Sincerely,
ATC Associates Inc.

Bob Bolton
Environmental Division Manager

Attachment

cc: Mr. Brent Puzak, The Pantry, Inc.

UST DOCKET
12 tech

ATC ASSOCIATES INC.
Engineering Individual Solutions

400 Northeast Drive, Unit Q
Columbia, South Carolina 29203
803-735-0003
Fax 803-735-0443
www.atcassociates.com

GROUNDWATER ASSESSMENT REPORT

81 Food Mart
(Former Pantry #585)
1502 East Greenville Street
Anderson, South Carolina
Anderson County
UST Permit #12458

PREPARED FOR:

Mr. Brent Puzak
Director of Gasoline Environmental
The Pantry, Inc.
Post Office Box 1410
Sanford, North Carolina

PREPARED BY:

ATC Associates Inc.
400 Northeast Drive, Unit Q
Columbia, South Carolina 29203
(803) 735-0003

Jake Whittle
Project Scientist

Frederick P. Lyke, P.G. #1055

FREDERICK P. LYKE
REGISTERED
No. 1055
NORTH CAROLINA
PROFESSIONAL GEOLOGIST

November 20, 2008

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1.0 INTRODUCTION

Ms. Renee' Thomas of The Pantry, Inc. contracted ATC Associates Inc. (ATC) to conduct groundwater assessment activities at the 81 Food Mart (former Pantry #585) facility located at 1502 East Greenville Street in Anderson, South Carolina. A site location map is presented as **Figure 1**. The groundwater assessment activities were approved by the South Carolina Department of Health and Environmental Control (SCDHEC) in correspondence to The Pantry, Inc. dated February 22, 2008. A copy of the SCDHEC correspondence (CA # 31728) is provided in **Appendix A**. It is noted that although the subject CA was issued on February 22, 2008, pursuit of permission to perform work on off-site properties delayed the intended site assessment schedule. Property access was not achieved at three parcels located downgradient of the site, particularly at the Sonic Restaurant, Commercial Holdings Shopping Center, and Moorehead Oil Company.

2.0 METHODOLOGY

2.1 Enhanced Fluid Recovery Activities

On June 26 and 27, 2008, ATC Associates Inc. (ATC) personnel supervised Enhanced Fluid Recovery (EFR) Event activities performed by NuWay Industrial Services, Inc. (NuWay) at the subject property. The EFR was performed to removed free-phase petroleum hydrocarbon (free product), vapor and impacted groundwater from beneath the site.

The subject SCDHEC work order indicated that free product removal by EFR was to be performed for two, 8-hour days, with one day recovery from Monitoring Well MW-1 and the second day of recovery from Monitoring Well MW-5. However, upon arrival to the site, free product was gauged in seven (7) site Monitoring Wells (MW-1, MW-5, MW6, MW-8, MW-9, MW-10 and MW-11). **Table 1** is provided to summarize free product well gauging data. **Figure 2** illustrates site features and well locations.

Upon completion of free-product gauging, the SCDHEC Site Manager was contacted, and the scope of work was revised to include EFR recovery from all wells with free product. Monitoring Wells MW-1, MW-6, and MW-8 were extracted from simultaneously for 8-hours on Day 1, and Monitoring Wells MW-5, MW-9, MW-10 and MW-11 were extracted from simultaneously for 8-hours on Day 2.

Appendix B is included as a summary report from Nu-Way which indicates that 1,427 gallons of liquid were generated on Day 1 (June 26th) and 1,372 gallons were generated on Day 2 (June 27th). Although the Nu-Way EFR report does not reflect recovery efforts from MW-5 on June 27, 2008, field representatives recalls that four (4) wells , including Monitoring Wells MW-5, MW-9, MW-10, and MW-11, were part of the recovery schedule for Day 2. An estimated 103 pounds and 136 pounds of hydrocarbon removal were calculated for Day 1 and Day 2 of EFR operation, respectively. Waste manifests for the recovered fluids are also provided in **Appendix B**.

Upon completion of each day of operation, no measurable amount of free product was detected in the target wells, with the exception of Monitoring Well MW-6 on Day 1, which showed 0.02 feet of free-product in the well upon EFR completion.

During a subsequent visit to the site for groundwater screening activities, described later herein, another round of free-product level gauging was performed. The data from the September 4, 2008, field event is also provided in **Table 1** which indicates that free product rebounded in Monitoring Wells MW-5, MW-6, MW-8, MW-9, MW-10, and MW-11.

2.2 DPT Groundwater Screening Activities

On September 4, 2008, ATC personnel supervised the installation of eight (8) direct push technology (DPT) groundwater screening points performed by Environmental Drilling and Probing Services (EDPS). In reference to the former dispenser island, DPT boring GP-1 was installed to the north, GP-4 was installed to the northeast, GP-5 to the southeast, and GP-6 to the

south. DPT boring GP-7 was installed to the southwest of the former dispenser island. DPT borings GP-3 and GP-2 were installed to the west of the former dispenser island. DPT boring GP-8 was installed on the other side of E. Greenville St., directly across from the McLees Road intersection. The locations of the DPT screening points GP-1 through GP-8 are shown in **Figure 3.**

Each DPT point was installed to an estimated depth where the groundwater surface would be encountered or to a depth of refusal, whichever came first. Once the DPT hole was installed, a temporary 1-inch diameter PVC screen was inserted into the hole and allowed time for water and/or free-product to infiltrate the well screen prior to sampling. As requested in the subject cost agreement, an effort was made to collect a deeper groundwater screening sample across McLees Road and E. Greenville St.; however, DPT refusal was encountered, and a deeper groundwater sample could not be collected. It is also noted that GP-6 was installed to refusal at 16 feet below ground surface (ft bgs). Although the soil cuttings seemed moist at 16 feet, no water infiltrated the temporary well pipe at GP-6 after approximately 4 hours. No groundwater sample was collected at GP-6, and the hole was abandoned.

Table 2 is provided with analytical information from the DPT groundwater screening event. Groundwater from Samples GP-7, GP-5, GP-2, GP-3, GP-1 and GP-4 had one or more contaminants of concern detected at concentrations above the Risk Based Screening Levels (RBSLs) and are listed in order from most impacted (total BTEX) to least. The groundwater sample from GP-8, collected from across E. Greenville St, had non-detect results. **Appendix C** is provided as DPT groundwater screening analytical data. The depth and temporary well screen interval information is also summarized in **Table 2**. Upon completion of groundwater screening sample collection, the temporary well pipe was removed from each DPT boring and was property abandoned. A total of 130 feet of DPT borings were installed and abandoned during this event. One 55-gallon drum of soil cuttings was generated during this event and disposed of at a later date concurrent with drill cutting waste described later in this report.

2.3 Monitor Well Installation Activities

Between October 6 and October 15, 2008, ATC personnel supervised monitoring well installation, performed by EDPS. It is noted that additional monitoring wells were requested by SCDHEC upon review of the DPT groundwater screening results mentioned in the previous section. Two (2) monitoring wells (MW-14 and MW-15) were installed to a depth of 25 ft bgs, with 20 feet of screen at the well terminus. Eleven (11) monitoring wells (MW-16, MW-17, and MW-23 through MW-31) were installed to a depth of 20 ft bgs with 15 feet of screen at the well terminus. Four (4) pit-cased deep monitoring wells (MW-19D through MW-22D) were installed to 47 ft bgs with 5 feet of screen at the well terminus, which was installed through a 6-inch diameter outer casing installed to 40 ft bgs. Two (2) additional pit-cased deep monitoring wells (MW-18D and DMW-3) were installed to depths of 80 and 135 ft bgs, with 5 feet of well screen at the well terminus. The telescoping portions of these wells were installed through 6-inch outer casings which were installed to 70 and 120 ft bgs, respectively.

The monitor wells were completed with a water-tight, locking PVC cap, protected by an 8-inch diameter steel, traffic rated manhole with a bolt down cover, encased in a flush-mounted concrete pad. Following installations, the monitor wells were developed to remove any fine materials that may impede the flow of groundwater into the well and to improve the hydraulic connection. Well driller records (1903 Forms) and monitoring well construction details with lithologic descriptions are presented in **Appendix D**. Upon completion of well installation, ATC personnel performed an updated top of casing survey of all new site monitoring wells.

Drill cuttings were containerized in 55-gallon drums (113 total drums; 108 solid and 5 water) and disposed of by JB Russell and Sons Environmental Services (JBR). Due to the quantity of drums generated, limited drum storage space at the site during drilling activities and roadway transport weight limitations, the waste vendor required four (4) separate mobilizations to transport the waste drums off the site for disposal. Waste manifests are included in **Appendix E**.

2.4 Site Geology

Visual analysis of subsurface soils collected from field screening activities and soil borings conducted as part of this assessment indicated soil consisting of clays, micaceous clayey silts, sandy silts, and fine to medium sands. Underlying these soil types borings encountered partially weathered rock that consisted of sandy silts and rock fragments and micaceous gneiss bedrock. The maximum depth of the current investigation was approximately 135 feet bgs. A geologic transect map is provided as **Figure 4**, and geologic cross sections are provided as **Figures 5 and 6**. Two (2) additional soil samples were collected for sieve analyses and hydrometer testing from Monitoring Wells MW-24 and MW-21D. These samples represent soil below the water surface from intervals where the screens were installed at depths of 15-17 ft bgs and 43-45 ft bgs, respectively. The data reports for grain size and sieve analyses are provided in **Appendix F**.

2.5 Site Hydrogeology

Concurrent with site groundwater sampling efforts after well installation activities were completed, ATC performed a comprehensive well gauging event. Monitoring Wells MW-5, MW-8, MW-9, MW-10, MW-11, MW-17, MW-27, MW-29 and MW-30 had free product that measured between 0.10 feet and 2.18 feet in thickness.

The inferred direction of groundwater flow direction is in a southwesterly direction with an estimated hydraulic gradient of 0.0312 feet per foot, as measured between Monitoring Wells MW-7 and MW-23. Groundwater measurements are summarized in **Table 3**, and a groundwater elevation contour map is depicted in **Figure 7**.

Three (3) slug tests were performed during groundwater sampling activities described later in this report at Monitoring Wells MW-21D, MW-24 and DMW-3. The *K* values were calculated by AQTESOLV using the Bouwer-Rice Method at 1.569, 0.2238 and 0.002971 feet per day, respectively. **Appendix G** is provided with the slug test reports and graphs.

2.6 Groundwater and Soil Sampling and Analysis

2.6.1 Soil Sampling and Analysis

During monitoring well installation activities, soil samples were collected above the suspected groundwater surface and field-screened using a photo-ionization detector (PID). A sample for laboratory analyses was collected at the sample depth yielding the highest vapor concentration above the suspected groundwater surface. Nineteen (19) soil samples were submitted to Southern Petroleum Laboratories (SPL) in Lafayette, LA and analyzed using EPA Method 8260B for BTEX, MTBE, and naphthalene.

2.6.2 Groundwater Monitoring Well Sampling and Analysis

Upon completion of well drilling activities, ATC personnel obtained groundwater samples from thirty-six (36) groundwater monitoring wells at the site. Groundwater from Monitoring Wells MW-1 through MW-31, DMW-1, DMW-2, DMW-3, KMO-17, and KMO-18 was collected in laboratory supplied containers and submitted to SPL for laboratory analyses using EPA Method 8260 (BTEX, MTBE, Naphthalene, 1,2 DCA, and the 8 oxygenates), Method 504.1 (EDB) and Method 200.8 (total lead). Analysis was also performed for nitrates, sulfates, and ferrous iron on all groundwater samples, except for MW-5, which could not be analyzed due to complications with the sample containers at the laboratory. Off-site Monitoring Wells KMO-17 and KMO-18 were sampled as part of this assessment. These monitoring wells were installed in association with the KMO #117 Gasoline Station (UST Permit Number 00707), which is located hydraulically down-gradient from the subject site.

No purge well sampling procedures (19 samples) were implemented for previously existing shallow wells with well screen intervals that bracketed the groundwater surface and for newly installed monitoring wells that had free-product detected. As requested in the CA, in monitoring wells where free product was identified, a no-purge groundwater sample was collected below the free product. For the remaining wells with water surface elevations that did not bracket the

water surface and newly installed shallow wells without the presence of free product, a 3-volume well purge was performed prior to sample collection. Purge parameters including temperature, conductivity, pH, and dissolved oxygen were recorded after each volume and are provided on the field sample forms provided in **Appendix H**. Purge water was contained in 55-gallon drums and disposed of by JBR. Waste manifests are included with the drilling waste disposal manifests provided in **Appendix E**.

New, disposable, latex gloves were used to maintain sample integrity during the sampling process. The groundwater samples were placed in laboratory supplied containers, placed on ice, and shipped via FedEx to SPL, Inc. in Scott, Louisiana for analyses. Proper preservation methods and chain-of-custody procedures were followed throughout the sampling process.

3.0 GROUNDWATER AND SOIL ANALYTICAL RESULTS

3.1 Soil Sample Analyses

Soil analytical results indicated that one or more chemicals of concern were detected at concentrations above the RBSLs in samples from SB/MW-17, SB/MW-19, SB/MW-23, SB/MW-24, SB/MW-28. SB/MW-29, SB/MW-30, SB/MW-31 and SB/DMW-3. One or more of the following constituents were identified in the above-mentioned samples at concentrations that exceeded their respective RBSLs as follows: benzene at 7.0 ug/kg, toluene at 1,450 ug/kg, ethylbenzene at 1,150 ug/kg, total xylenes at 14,500 ug/kg and naphthalene at 36 ug/kg. **Table 4** is provided to summarize soil analytical information. Soil laboratory analytical data is provided in **Appendix I** and illustrated in **Figure 8**.

3.2 Monitor Well Analyses

For monitoring wells where free product was not detected, the groundwater analytical results indicated that one or more petroleum-related chemicals of concern were detected at concentrations above the RBSL in Monitoring Wells MW-1, MW-4, MW-6, MW-2, MW-13,

MW-18D, MW-19D, MW-20D, MW-21D, MW-23, MW-24, MW-25, MW-31, DMW-1, and DMW-2. **Figures 9A and 9B** are provided to illustrate monitoring well analytical data. **Figures 10A and 10B** are also provided to illustrate monitoring well analytical data for the 8-oxygenates. Groundwater monitoring well analytical reports are provided in **Appendix J,** and data is summarized in **Table 5.** The 8-oxygenate analytical results are summarized in **Table 6. Table 7** is included as a summary of historical groundwater analytical results.

During the well sampling event, free-phase petroleum product was detected in Monitoring Wells MW-5, MW-8, MW-9, MW-10, MW-11, MW-17, MW-27, MW-29 and MW-30 at thicknesses ranging from 0.10 to 2.18 feet. Although a groundwater sample was collected from below the free product levels in these wells, the analytical information was not included in the summary of analytical data above as these wells have obvious impacts. **Figure 11** is provided to illustrate the inferred extent of the free phase petroleum product plume, which could possibly extend beneath the foundation of the facility building based on free product in Monitoring Well MW-27.

4.0 CONCLUSIONS AND RECOMMENDATIONS

- On June 26-27, 2008, ATC personnel oversaw two EFR events with off-gas treatment at Monitoring Wells MW-1, MW-6, MW-8, MW-5, MW-9, MW-10, and MW-11.

- On September 4, 2008, ATC personnel supervised the installation of eight (8) DPT temporary groundwater screening points.

- Between October 6 and October 15, 2008, ATC personnel supervised the installation of thirteen (13) shallow monitoring wells and six (6) pit-cased deep monitoring wells.

- Nineteen (19) soil samples were collected during the current assessment activities.

- During the well sampling event, Monitoring Wells MW-5, MW-8, MW-9, MW-10, MW-11, MW-17, MW-27, MW-29 and MW-30 had free product thicknesses ranging

from 0.10 to 2.18 feet.

- The inferred direction of groundwater flow direction is in a southwesterly direction with an estimated hydraulic gradient of 0.0312 feet per foot, as measured between Monitoring Wells MW-7 and MW-23.

- Three (3) slug tests were performed during groundwater sampling activities at monitoring wells MW-21D, MW-24 and DMW-3. The *K* values were calculated at 1.569, 0.2238 and 0.002971 feet per day, respectively.

Based on the information presented in this report that documents nine (9) wells containing free product, ATC recommends that the former Pantry #585 be considered a candidate for active corrective action.

5.0 REPORT LIMITATIONS

This investigation is intended to be a non-biased assessment of on-site environmental conditions proximate to the location of the former UST system. Subsurface investigative methodologies are in accordance with all applicable state and federal regulatory requirements. The information presented in this report is based upon site-specific observations, generally accepted geological practices, and analytical results for environmental samples collected at the time of the field investigation. All data is believed to represent subsurface conditions at the facility, however, data may not be completely representative of all subsurface conditions.

REFERENCES

ATC Associates Inc., July 7, 2006, *Groundwater Sampling Report –81 Food Mart (Former Pantry 585)*, Columbia, South Carolina.

ATC Associates Inc., July 17, 2007, *Groundwater Assessment Report –81 Food Mart (Former Pantry 585)*, Columbia, South Carolina.

SCDHEC, May 15, 2001, *Risk-Based Corrective Action for Petroleum Releases*, Columbia, South Carolina.

ATC Associates Inc., December 19, 2007, *Groundwater Assessment Report –81 Food Mart (Former Pantry 585)*, Columbia, South Carolina.

TABLES

TABLE 1
Free Product Gauging
Former Pantry # 585 / 1502 East Greenville St., South Carolina

Monitoring Well ID	Gauging Date	Depth to Free Product (ft btoc)	Depth to Water (ft btoc)	Free Product Thickness (feet)	Depth of Well (feet)	Well Screen Interval (feet)
MW-1	6/26/08	**12.27**	12.44	**0.17**	25	unknown
	9/4/08	nmfp	12.46	nmfp		
MW-5	6/26/08	**12.04**	12.53	**0.49**	15	5-15
	9/4/08	**12.73**	13.20	**0.47**		
MW-6	6/26/08	**12.81**	13.14	**0.33**	18	8-18
	9/4/08	**13.52**	13.58	**0.06**		
MW-7	6/26/08	nmfp	10.06	nmfp	15	5-15
	9/4/08	nmfp	10.56	nmfp		
MW-8	6/26/08	**10.43**	10.76	**0.33**	17	7-17
	9/4/08	**10.98**	11.33	**0.35**		
MW-9	6/26/08	**11.60**	12.49	**0.89**	17	7-17
	9/4/08	**12.48**	13.08	**0.60**		
MW-10	6/26/08	**11.58**	13.18	**1.60**	17	7-17
	9/4/08	**12.40**	13.68	**1.28**		
MW-11	6/26/08	**12.15**	12.89	**0.74**	17	7-17
	9/4/08	**12.90**	13.30	**0.40**		
MW-12	6/26/08	nmfp	10.91	nmfp	17	7-17
	9/4/08	nmfp	11.60	nmfp		

nmfp - Free product not detected or no measurable amount of free product
ft btoc - feet below top of casing
Top of casing elevations are based on an assumed elevation of 100 feet above mean sea level.
ND - Not Detected
NM - Not Measured

TABLE 2
DPT Groundwater Screening Analytical Results (September 4, 2008)
Former Pantry # 585 / 1502 East Greenville St., South Carolina

Chemical of Concern	RBSL (µg/l)	GP-1 (µg/l)	GP-2 (µg/l)	GP-3 (µg/l)	GP-4 (µg/l)	GP-5 (µg/l)	GP-6 (µg/l)	GP-7 (µg/l)	GP-8 (µg/l)
Screen Interval	NA	10-15	11-16	15-20	11-16	11-16	11-16	8-13	13-18
Free Product	NA	None	None	None	None	None	NA	None	None
Benzene	5	**15**	**17,000**	**420**	**5.9**	**32,000**	DRY	**7,800**	<1
Toluene	1,000	4.5	**29,000**	**4,500**	<1	**37,000**	DRY	**22,000**	<1
Ethylbenzene	700	7	**2,600**	**1,500**	3.9	**4,200**	DRY	**2,800**	<1
Xylenes	10,000	19.1	**13,800**	7,200	8.1	**20,300**	DRY	**14,400**	<1
Total BTEX	NE	45.6	62,400	13,620	17.9	93,500	DRY	47,000	ND
MTBE	40	28	**<250**	<5	<5	**7,200**	DRY	**820**	<5
Naphthalene	25	<5	**940**	**360**	<5	**960**	DRY	**870**	<5

Bold concentrations represent those greater than the respective RBSL.

NE – Not Established; NS – Not Sampled

MTBE = methyl-tert-butyl ether

GP-6 was dry. No sample was collected.

TABLE 3
Soil Analytical Results (October 2008)
Former Pantry # 585 / 1502 East Greenville St., South Carolina

Chemical of Concern	RBSL (ug/kg)	SB/MW-14 (ug/kg)	SB/MW-15 (ug/kg)	SB/MW-16 (ug/kg)	SB/MW-17 (ug/kg)	SB/MW-18 (ug/kg)	SB/MW-19 (ug/kg)
Depth (ft bls)	na	5	5	5	10	4	6
Benzene	7	<1.1	<1.3	<0.91	**38**	5.7	**61,000**
Toluene	1,450	<1.1	<1.3	<0.91	110	<1	**340,000**
Ethylbenzene	1,150	74	20	<0.91	19	1.5	**97,000**
Xylenes	14,500	228	82	<4.57	146	<5.2	**460,000**
Total BTEX	NE	302	102	ND	313	7.2	958,000
Naphthalene	36	<5.3	<6.6	<4.6	<5.5	<5.2	**33,000**

ug/kg = all data reported in micrograms per killigram.
Bold concentrations represent those greater than the respective RBSL.
NE - Not Established
MTBE = methyl-tert-butyl ether
Note - RBSL's are those for sandy soil
ft bls = feet below land surface

TABLE 3 (Continued)
Soil Analytical Results (October 2008)
Former Pantry # 585 / 1502 East Greenville St., South Carolina

Chemical of Concern	RBSL (ug/kg)	SB/MW-20 (ug/kg)	SB/MW-21 (ug/kg)	SB/MW-22 (ug/kg)	SB/MW-23 (ug/kg)	SB/MW-24 (ug/kg)	SB/MW-25 (ug/kg)
Depth (ft bls)	na	5	8	5	5	4	5
Benzene	7	<0.91	<1.2	2.6	**7.5**	**290**	<1
Toluene	1,450	<0.91	<1.2	<0.93	<0.84	<47	<1
Ethylbenzene	1,150	<0.91	<1.2	1.8	2.2	370	<1
Xylenes	14,500	<4.5	<5.8	11	<4.22	660	<5
Total BTEX	NE	ND	ND	15.4	9.7	1,320	ND
Naphthalene	36	<4.5	<5.8	<4.6	<4.2	<240	<5

ug/kg = all data reported in micrograms per killigram.
Bold concentrations represent those greater than the respective RBSL.
NE - Not Established
MTBE = methyl-tert-butyl ether
Note - RBSL's are those for sandy soil
ft bls = feet below land surface

TABLE 3 (Continued)
Soil Analytical Results (October 2008)
Former Pantry # 585 / 1502 East Greenville St., South Carolina

Chemical of Concern	RBSL (ug/kg)	SB/MW-26 (ug/kg)	SB/MW-27 (ug/kg)	SB/MW-28 (ug/kg)	SB/MW-29 (ug/kg)	SB/MW-30 (ug/kg)	SB/MW-31 (ug/kg)	SB/DMW-3 (ug/kg)
Depth (ft bls)	na	8	6	6	5	5	8	5
Benzene	7	2.7	1.6	**16**	**4,900**	**910**	**600**	**12,000**
Toluene	1,450	<0.95	18	<1.1	**140,000**	93	<52	**71,000**
Ethylbenzene	1,150	1.8	6.5	<1.1	**42,000**	230	280	**22,000**
Xylenes	14,500	10.3	35	<5.27	**218,000**	840	950	**106,000**
Total BTEX	NE	14.8	61.1	16	404,900	2,073	1,830	211,000
Naphthalene	36	<4.7	<4.7	<5.3	**20,000**	**<340**	**<260**	**7,700**

ug/kg = all data reported in micrograms per killigram.
Bold concentrations represent those greater than the respective RBSL.
NE - Not Established
MTBE = methyl-tert-butyl ether
Note - RBSL's are those for sandy soil
ft bls = feet below land surface

TABLE 4
Groundwater Elevation Data (October 2008)
Former Pantry # 585 / 1502 East Greenville St., South Carolina

Monitoring Well ID	Gauging Date	Top of Casing Elevation (ft)	Depth to Free Product (ft)	Depth to Water (ft btoc)	Free Product Thickness (feet)	Depth of Well (feet)	Well Screen Interval (feet)	Water Table Elevation (feet) *Corrected for FP
MW-1	10/15/08	94.87	nd	13.20	nd	25	unknown	81.67
MW-2	10/15/08	94.78	nd	12.58	nd	20	unknown	82.20
MW-3	10/15/08	91.60	nd	9.96	nd	15	unknown	81.64
MW-4	10/15/08	91.77	nd	10.61	nd	15	5-15	81.16
MW-5	10/15/08	94.34	**12.89**	13.65	**0.76**	15	5-15	81.28
MW-6	10/15/08	95.34	nd	13.88	nd	18	8-18	81.46
MW-7	10/15/08	95.80	nd	11.06	nd	15	5-15	84.74
MW-8	10/15/08	95.06	**11.28**	11.55	**0.27**	17	7-17	83.72
MW-9	10/15/08	94.36	**12.59**	13.50	**0.91**	17	7-17	81.57
MW-10	10/15/08	94.29	**12.93**	14.26	**1.33**	17	7-17	81.07
MW-11	10/15/08	94.71	**13.07**	13.67	**0.60**	17	7-17	81.51
MW-12	10/15/08	92.18	nd	11.82	nd	17	7-17	80.36
MW-13	10/15/08	90.12	nd	10.13	nd	13	3-13	79.99
MW-14	10/16/08	101.68	nd	15.32	nd	25	5-25	86.36
MW-15	10/16/08	94.04	nd	12.83	nd	25	5-25	81.21
MW-16	10/16/08	93.49	nd	13.31	nd	20	5-20	80.18
MW-17	10/16/08	94.95	**13.40**	14.05	**0.65**	20	5-20	81.41
MW-18D	10/16/08	90.98	nd	10.82	nd	80	75-80	80.16
MW-19D	10/16/08	94.79	nd	15.82	nd	47	42-47	78.97
MW-20D	10/16/08	92.8	nd	12.30	nd	47	42-47	80.50
MW-21D	10/16/08	91.05	nd	10.20	nd	47	42-47	80.85
MW-22D	10/16/08	94.78	nd	10.23	nd	47	42-47	84.55
MW-23	10/16/08	90.79	nd	10.01	nd	20	5-20	80.78
MW-24	10/16/08	91.49	nd	10.51	nd	20	5-20	80.98
MW-25	10/16/08	94.11	nd	13.34	nd	20	5-20	80.77
MW-26	10/17/08	94.62	nd	9.98	nd	20	5-20	84.64
MW-27	10/17/08	94.41	**12.39**	13.71	**1.32**	20	5-20	81.73
MW-28	10/17/08	96.08	nd	11.85	nd	20	5-20	84.23
MW-29	10/17/08	94.93	**13.32**	13.42	**0.10**	20	5-20	81.59
MW-30	10/17/08	93.68	**11.92**	14.10	**2.18**	20	5-20	81.28
MW-31	10/17/08	92.97	nd	11.85	nd	20	5-20	81.12
DMW-1	10/17/08	94.71	nd	13.07	nd	78	73-78	81.64
DMW-2	10/17/08	NM	nd	13.47	nd	80	75-80	NM
DMW-3	10/17/08	94.98	nd	29.88	nd	135	130-135	65.10
KMO-17	10/17/08	87.79	nd	9.12	nd	15	unknown	78.67
KMO-18	10/17/08	85.93	nd	8.10	nd	15	unknown	77.83

nd - Free product not detected or amount of free product not measurable
ft btoc - feet below top of casing
Top of casing elevations are based on an assumed elevation of 100 feet above mean sea level.
ND - Not Detected
NM - Not Measured
*Corrected for Free Product - Depth to water elevation has been adjusted using the following formula to account for weight of free-product:
GW Elevation = TOC Elevation - (Actual Water Level Meaurement - (Product Thickness x 0.78))

TABLE 5
Monitoring Well Groundwater Analytical Results (October 2008)
Former Pantry # 585 / 1502 East Greenville St., Anderson, South Carolina

Chemical of Concern	RBSL (µg/l)	MW-1 (µg/l)	MW-2 (µg/l)	MW-3 (µg/l)	MW-4 (µg/l)	MW-5 (µg/l)	MW-6 (µg/l)	MW-7 (µg/l)	MW-8 (µg/l)	MW-9 (µg/l)	MW-10 (µg/l)
Free Product Thickness (ft)	NA	None	None	None	None	**0.76**	None	None	**0.27**	**0.91**	**1.64**
Benzene	5	**14,000**	<5	<5	**110**	**25,000**	**26,000**	<5	**3,400**	**30,000**	**1,800**
Toluene	1,000	**24,000**	<5	<5	38	**49,000**	**41,000**	<5	**24,000**	**52,000**	**6,500**
Ethylbenzene	700	**3,100**	<5	<5	13	**4,300**	**3,100**	<5	**3,700**	**3,400**	**1,200**
Xylenes	10,000	**18,800**	<5	<5	26.7	**23,300**	**16,000**	<5	**21,300**	**17,800**	6,000
Total BTEX	NE	59,900	---	---	187.7	101,600	86,100	---	52,400	103,200	15,500
MTBE	40	**4,000**	<5	<5	**120**	**<1000**	**55,000**	<5	**<500**	**93,000**	**<250**
Naphthalene	25	**1,500**	<5	<5	<5	**1,300**	**<1000**	<5	**1,200**	**<2500**	**390**
EDB	0.05	<0.021	<0.021	<0.021	<0.021	**0.24**	<.021	<0.021	<0.021	**0.22**	**0.53**
Lead	15	<10	1.47	4.12	**39.8**	**15.6**	**28.3**	3.36	**25.1**	<10	5.58
Ferrous Iron	NE	2,890	34,500	22,000	1,200	**NS	8,810	<50	<50	<50	<50
Nitrates	NE	22	<10	20	14	**NS	10	766	<10	<10	112
Sulfates	NE	<5000	12,800	<5000	9250	**NS	<5000	37,700	<5000	65,400	48,400

Bold concentrations represent those greater than the respective RBSL.
NE – Not Established; NS – Not Sampled
--- = Not Applicable
EDB = ethylene dibromide; MTBE = methyl-tert-butyl ether
* denotes results in mg/L
none = No measurable amount of free product detected.
**The MW-5 container for Ferrous iron, Nitrates and Sulfates broke during transit. Subsequently, these parameters were not analyzed by the laboratory.

TABLE 5 (Continued)
Monitoring Well Groundwater Analytical Results (October 2008)
Former Pantry # 585 / 1502 East Greenville St., Anderson, South Carolina

Chemical of Concern	RBSL (µg/l)	MW-11 (µg/l)	MW-12 (µg/l)	MW-13 (µg/l)	MW-14 (µg/l)	MW-15 (µg/l)	MW-16 (µg/l)	MW-17 (µg/l)	MW-18D (µg/l)	MW-19D (µg/l)	MW-20D (µg/l)
Free Product Thickness (ft)	NA	**0.45**	None	None	None	None	None	**0.48**	None	None	None
Benzene	5	**26,000**	**17,000**	**6,000**	<5	<5	<5	**16000**	**150**	**6,600**	**140**
Toluene	1,000	**49,000**	**22,000**	**5,000**	<5	<5	<5	**63000**	730	**19,000**	300
Ethylbenzene	700	**3,800**	**1,900**	**1,600**	<5	<5	<5	**92000**	100	**2,200**	74
Xylenes	10,000	**20,400**	5,700	3,200	9.2	<5	<5	**51000**	270	**11,400**	610
Total BTEX	NE	99,200	46,600	15,800	9.2	---	---	222,000	1,250	39,200	1,124
MTBE	40	**3,200**	**7,300**	**<100**	<5	<5	<5	**<1000**	<5	**2,700**	29
Naphthalene	25	**1,200**	**860**	**510**	<5	<5	<5	**4600**	<5	**860**	**72**
EDB	0.05	**0.29**	**0.14**	<0.021	<0.021	<0.021	<0.021	0.13	**<0.21**	<0.021	<.021
Lead	15	10.9	**19.4**	**16.4**	3.17	3.77	**21.4**	**37.5**	<10	<10	<10
Ferrous Iron	NE	<50	1,260	21,600	<50	<50	<50	<50	<50	<50	<50
Nitrates	NE	<10	<10	18	626	89	1030	<10	1,040	647	331
Sulfates	NE	14,900	27,400	<5000	<5000	<5000	<5000	11,300	7,550	109,000	<5000

Bold concentrations represent those greater than the respective RBSL.
NE – Not Established; NS – Not Sampled
--- = Not Applicable
EDB = ethylene dibromide; MTBE = methyl-tert-butyl ether
* denotes results in mg/L
none = No measurable amount of free product detected.
**Due to complications with the MW-5 sample containers for Ferrous iron, Nitrates and Sulfates, these parameters were not analyzed by the laboratory.

TABLE 5 (Continued)
Monitoring Well Groundwater Analytical Results (October 2008)
Former Pantry # 585 / 1502 East Greenville St., Anderson, South Carolina

Chemical of Concern	RBSL (µg/l)	MW-21D (µg/l)	MW-22D (µg/l)	MW-23 (µg/l)	MW-24 (µg/l)	MW-25 (µg/l)	MW-26 (µg/l)	MW-27 (µg/l)	MW-28 (µg/l)	MW-29 (µg/l)	MW-30 (µg/l)
Free Product Thickness (ft)	NA	None	None	None	None	None	None	**1.04**	None	**0.1**	**2.18**
Benzene	5	**18**	<5	**4,200**	**10,000**	**60**	<5	**14,000**	<5	**28,000**	**1,700**
Toluene	1000	200	<5	**19,000**	**16,000**	270	<5	**24,000**	<5	**120,000**	**62,000**
Ethylbenzene	700	44	5.4	**2,400**	**2,400**	160	<5	**3,000**	<5	**26,000**	480
Xylenes	10000	215	26	**10,700**	**13,300**	920	<5	**15,800**	<5	**126,000**	2,430
Total BTEX	NE	477	31.4	36,300	41,700	1,410	---	56,800	---	300,000	66,610
MTBE	40	5.5	<5	**1,700**	**4,500**	<5	<5	**2,500**	15	**13,000**	**930**
Naphthalene	25	16	9.4	**1,300**	**1,300**	**59**	<5	**1,500**	<5	**12,000**	**200**
EDB	0.05	<0.021	<0.021	<0.021	<0.02	<0.021	<0.021	<0.021	<.02	**0.25**	**0.33**
Lead	15	<10	<1	<10	<10	4.07	2.13	1.62	<1	14.7	**110**
Ferrous Iron	NE	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Nitrates	NE	954	<10	<10	325	186	<10	42	72	<10	145
Sulfates	NE	<5000	11,800	6,140	5,950	<5000	27,000	28,000	62,300	<5000	56,700

Bold concentrations represent those greater than the respective RBSL.
NE – Not Established; NS – Not Sampled
--- = Not Applicable
EDB = ethylene dibromide; MTBE = methyl-tert-butyl ether
* denotes results in mg/L
none = No measurable amount of free product detected.
**Due to complications with the MW-5 sample containers for Ferrous iron, Nitrates and Sulfates, these parameters were not analyzed by the laboratory.

TABLE 5 (Continued)
Monitoring Well Groundwater Analytical Results (October 2008)
Former Pantry # 585 / 1502 East Greenville St., Anderson, South Carolina

Chemical of Concern	RBSL (µg/l)	MW-31 (µg/l)	DMW-1 (µg/l)	DMW-2 (µg/l)	DMW-3 (µg/l)	KMO-17 (µg/l)	KMO-18 (µg/l)
Free Product Thickness (ft)	NA	None	None	None	None	None	None
Benzene	5	**11,000**	**85**	**59**	<5	<5	<5
Toluene	1,000	**25,000**	170	440	8.1	<5	<5
Ethylbenzene	700	**2,600**	19	72	<5	<5	<5
Xylenes	10,000	**12,900**	104	380	5.3	<5	<5
Total BTEX	NE	51,500	378	951	13.4	---	---
MTBE	40	**14,000**	33	<50	<5	<5	<5
Naphthalene	25	**870**	<5	<50	<5	<5	<5
EDB	0.05	<0.021	<0.021	<0.02	<0.021	<0.021	<.02
Lead	15	<10	<10	<10	<10	2.42	<1
Ferrous Iron	NE	<50	<50	<50	<50	<50	1880
Nitrates	NE	<10	99	21	22	426	30
Sulfates	NE	19,300	41,600	<5000	<5000	<5000	21,500

Bold concentrations represent those greater than the respective RBSL.
NE – Not Established; NS – Not Sampled
--- = Not Applicable
EDB = ethylene dibromide; MTBE = methyl-tert-butyl ether
* denotes results in mg/L
none = No measurable amount of free product detected.
**Due to complications with the MW-5 sample containers for Ferrous iron, Nitrates and Sulfates, these parameters were not analyzed by

TABLE 6
Summary of Current Groundwater Analytical Results - 8 Oxygenates
Former Pantry No. 585
1502 East Greenville St., Anderson, South Carolina

Well Location	Sample Date	Chemical of Concern								Comments / Notes
		3,3-Dimethyl-1-Butanol	Disiopropyl ether	Ethanol	T-Butyl Alcohol	tert-Amyl Alcohol	tert-Amyl methyl ether	Ethyl-tert-butyl ether	tert-Butyl Formate	
RBSL's (*u* g/L)		NE	150	10,000	1,400	240	128	NE	NE	
MW-1	10/16/08	ND	**730**	ND	**2200**	ND	ND	ND	ND	
MW-2	10/22/08	ND	ND	ND	ND	ND	ND	ND	ND	
MW-3	10/22/08	ND	ND	ND	ND	ND	ND	ND	ND	
MW-4	10/16/08	ND	16	ND	330	ND	ND	ND	ND	
MW-5	10/16/08	ND	ND	ND	ND	ND	ND	ND	ND	
MW-6	10/22/08	ND	**2500**	ND	**43000**	ND	ND	ND	ND	
MW-7	10/23/08	ND	ND	ND	ND	ND	ND	ND	ND	
MW-8	10/16/08	ND	ND	ND	ND	ND	ND	ND	ND	
MW-9	10/16/08	ND	**3300**	ND	**38000**	ND	ND	ND	ND	
MW-10	10/22/08	ND	ND	ND	ND	ND	ND	ND	ND	
MW-11	10/22/08	ND	1600	ND	3300	ND	ND	ND	ND	
MW-12	10/16/08	ND	**1600**	ND	**8000**	ND	**390**	ND	ND	
MW-13	10/22/08	ND	ND	ND	ND	ND	ND	ND	ND	
MW-14	10/22/08	ND	ND	ND	ND	ND	ND	ND	ND	

TABLE 6 (Continued)
Summary of Current Groundwater Analytical Results - 8 Oxygenates
Former Pantry No. 585
1502 East Greenville St., Anderson, South Carolina

Well Location	Sample Date	Chemical of Concern								Comments / Notes
		3,3-Dimethyl-1-Butanol	Disiopropyl ether	Ethanol	T-Butyl Alcohol	tert-Amyl Alcohol	tert-Amyl methyl ether	Ethyl-tert-butyl ether	tert-Butyl Formate	
RBSL's (*u* g/L)		NE	150	10,000	1,400	240	128	NE	NE	
MW-15	10/22/08	ND	ND	ND	ND	ND	ND	ND	ND	
MW-16	10/16/08	ND	ND	ND	ND	ND	ND	ND	ND	
MW-17	10/22/08	ND	ND	ND	ND	ND	ND	ND	ND	
MW-18	10/16/08	ND	ND	ND	ND	ND	ND	ND	ND	
MW-19	10/16/08	ND	**490**	ND	**2300**	ND	ND	ND	ND	
MW-20	10/16/08	ND	6.1	ND	36	ND	ND	ND	ND	
MW-21	10/16/08	ND	ND	ND	ND	ND	ND	ND	ND	
MW-22	10/23/08	ND	ND	ND	ND	ND	ND	ND	ND	
MW-23	10/16/08	ND	**300**	ND	**1800**	ND	ND	ND	ND	
MW-24	10/16/08	ND	**660**	ND	**4700**	ND	ND	ND	ND	
MW-25	10/22/08	ND	ND	ND	ND	ND	ND	ND	ND	
MW-26	10/23/08	ND	ND	ND	ND	ND	ND	ND	ND	
MW-27	10/23/08	ND	ND	ND	**2200**	ND	ND	ND	ND	
MW-28	10/23/08	ND	ND	ND	ND	ND	ND	ND	ND	

TABLE 6 (Continued)
Summary of Current Groundwater Analytical Results - 8 Oxygenates
Former Pantry No. 585
1502 East Greenville St., Anderson, South Carolina

Well Location	Sample Date	Chemical of Concern								Comments / Notes
		3,3-Dimethyl-1-Butanol	Disiopropyl ether	Ethanol	T-Butyl Alcohol	tert-Amyl Alcohol	tert-Amyl methyl ether	Ethyl-tert-butyl ether	tert-Butyl Formate	
RBSL's (*u* g/L)		NE	150	10,000	1,400	240	128	NE	NE	
MW-29	10/16/08	ND	ND	ND	ND	ND	ND	ND	ND	
MW-30	10/16/08	ND	100	ND	**700**	ND	ND	ND	ND	
MW-31	10/16/08	ND	**960**	ND	**14000**	ND	ND	ND	ND	
DMW-1	10/16/08	ND	ND	ND	ND	ND	ND	ND	ND	
DMW-2	10/16/08	ND	ND	ND	ND	ND	ND	ND	ND	
DMW-3	10/16/08	ND	ND	ND	15	ND	ND	ND	ND	
KMO-17	10/22/08	ND	ND	ND	ND	ND	ND	ND	ND	
KMO-18	10/22/08	ND	ND	ND	ND	ND	ND	ND	ND	

TABLE 7
Historical Groundwater Analytical Results
Former Pantry # 585 / 1502 East Greenville St., Anderson, South Carolina

Sample Location	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	MTBE	Naphthalene	EDB	Lead
RBSL	**NA**	**5**	**1000**	**700**	**10000**	**NE**	**40**	**25**	**0.05**	**15**
MW-1	11/01/00	**7,050**	**13,100**	**1,590**	7,590	29,330	**2,470**	**610**	NS	NS
	06/01/06	NS	NS	NS	NS	---	NS	NS	NS	NS
	04/09/07	NS	NS	NS	NS	---	NS	NS	NS	NS
	11/15/07	**6,200**	**8,600**	**1,600**	7,200	23,600	**2,400**	**810**	NS	NS
	10/16/08	**14,000**	**24,000**	**3,100**	**18,800**	59,900	**4,000**	**1,500**	<0.021	<10
MW-2	11/01/00	2.1	25	5.1	39.6	71.8	<2.0	14.9	NS	NS
	06/01/06	<5.0	<5.0	<5.0	<5.0	---	<5.0	<5.0	NS	NS
	04/09/07	<5.0	<5.0	<5.0	<5.0	---	<5.0	<5.0	NS	NS
	11/15/07	<1.0	<1.0	<1.0	<1.0	---	<1.0	<5.0	NS	NS
	10/22/08	<5	<5	<5	<5	ND	<5	<5	<0.021	1.47
MW-3	11/01/00	<2.0	4.1	<2.0	<2.0	4.1	<2.0	15.9	NS	NS
	06/01/06	<5.0	<5.0	<5.0	<5.0	---	<5.0	<5.0	NS	NS
	04/09/07	<5.0	<5.0	<5.0	<5.0	---	<5.0	<5.0	NS	NS
	11/15/07	<1.0	<1.0	<1.0	<1.0	---	<1.0	<5.0	NS	NS
	10/22/08	<5	<5	<5	<5	ND	<5	<5	<0.021	4.12
MW-4	04/09/07	**2,200**	**2,100**	530	930	5,760	**660**	**180**	NS	NS
	11/15/07	**3,400**	**2,900**	**870**	1,770	8,940	**890**	**340**	NS	NS
	10/16/08	**110**	38	13	26.7	187.70	**120**	<5	<0.021	**39.8**
MW-5	04/09/07	NS	NS	NS	NS	---	NS	NS	NS	NS
	11/15/07	**22,000**	**30,000**	**2,500**	**14,600**	69,100	**160**	**<500.0**	NS	NS
	10/16/08	**25,000**	**49,000**	**4,300**	**23,300**	101,600	**<1000**	**1,300**	**0.24**	**15.6**
MW-6	04/09/07	**2,800**	**24,000**	**3,100**	**13,200**	43,100	**<1000**	**2000**	NS	NS
	11/15/07	**620**	**1,500**	260	1080	3460	19	**75**	NS	NS
	10/22/08	**26,000**	**41,000**	**3,100**	**16,000**	86,100	**55,000**	**<1000**	<.021	**28.3**
RBSL	**NA**	**5**	**1000**	**700**	**10000**	**NE**	**40**	**25**	**0.05**	**15**

RBSL = Risk Based Screening Levels; NA = Not Applicable; NS = Not Sampled

Bold concentrations represent those greater than their respective RBSL; Analytical results in µg/l unless otherwise noted.

* denotes results in mg/L

NE = Not Established

- = Not Applicable

EDB = ethylene dibromide; MTBE = methyl-tert-butyl ether

TABLE 7 (Continued)
Historical Groundwater Analytical Results
Former Pantry # 585 / 1502 East Greenville St., Anderson, South Carolina

Sample Location	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	MTBE	Naphthalene	EDB	Lead
RBSL	**NA**	**5**	**1000**	**700**	**10000**	**NE**	**40**	**25**	**0.05**	**15**
MW-7	04/09/07	<5.0	<5.0	<5.0	<5.0	---	<5.0	<5.0	NS	NS
	11/15/07	<1.0	<1.0	<1.0	<1.0	---	<1.0	<5.0	NS	NS
	10/23/08	<5	<5	<5	<5	ND	<5	<5	<0.021	3.36
MW-8	11/15/07	**410**	**3,200**	**1,600**	6,800	12,010	**<10**	**640**	NS	10.1
	10/16/08	**3,400**	**24,000**	**3,700**	**21,300**	52,400	**<500**	**1,200**	<0.021	**25.1**
MW-9	11/15/07	**28,000**	**33,000**	**2,700**	**13,300**	77,000	**82,000**	**<2500**	NS	**41.2**
	10/16/08	**30,000**	**52,000**	**3,400**	**17,800**	103,200	**93,000**	**<2500**	**0.22**	<10
MW-10	11/15/08	**30,000**	**57,000**	**11,000**	**56,000**	154,000	**50000**	**4400**	NS	**48.3**
	10/22/08	**1,800**	**6,500**	**1,200**	6,000	15,500	**<250**	**390**	**0.53**	5.58
MW-11	11/15/07	**30,000**	**70,000**	**14,000**	**73,000**	187,000	**1,900**	**4,200**	NS	**66**
	10/22/08	**26,000**	**49,000**	**3,800**	**20,400**	98,200	**3,200**	**1,200**	**0.29**	10.9
MW-12	11/15/08	**19,000**	**16,000**	**2,200**	**10,000**	47,200	**8,200**	**610**	NS	**14.1**
	10/16/08	**17,000**	**22,000**	**1,900**	**5,700**	46,600	**7,300**	**860**	**0.14**	**19.4**
MW-13	11/15/08	**4,700**	**3,900**	**960**	2,630	12,190	**110**	13	NS	**24.7**
	10/22/08	**6,000**	**5,000**	**1,600**	3,200	15,800	**<100**	**510**	<0.021	**16.4**
MW-14	10/16/08	<5	<5	<5	<5	ND	<5	<5	<0.021	3.17
MW-15	10/22/08	<5	<5	<5	<5	ND	<5	<5	<0.021	3.77
MW-16	10/16/08	<5	<5	<5	9.2	ND	<5	<5	<0.021	**21.4**
MW-17	10/22/08	16,000	63,000	9,200	51,000	139,200	<1000	4600	**0.13**	**37.5**
MW-18	10/16/08	**150**	730	100	270	1,250	<5	<5	<0.021	<10
MW-19	10/16/08	**6,600**	**19,000**	**2,200**	**11,400**	39,200	**2,700**	**860**	<0.021	<10
MW-20	10/16/08	**140**	300	74	610	1,124	29	72	<0.021	<10
MW-21	10/16/08	**18**	200	44	215	477	5.5	16	<0.021	<10
RBSL	**NA**	**5**	**1000**	**700**	**10000**	**NE**	**40**	**25**	**0.05**	**15**

RBSL = Risk Based Screening Levels; NA = Not Applicable; NS = Not Sampled

Bold concentrations represent those greater than their respective RBSL; Analytical results in µg/l unless otherwise noted.

* denotes results in mg/L

NE = Not Established

- = Not Applicable

EDB = ethylene dibromide; MTBE = methyl-tert-butyl ether

TABLE 7 (Continued) Historical Groundwater Analytical Results Former Pantry # 585 / 1502 East Greenville St., Anderson, South Carolina										
Sample Location	**Date**	**Benzene**	**Toluene**	**Ethylbenzene**	**Total Xylenes**	**Total BTEX**	**MTBE**	**Naphthalene**	**EDB**	**Lead**
RBSL	**NA**	**5**	**1000**	**700**	**10000**	**NE**	**40**	**25**	**0.05**	**15**
MW-22	10/23/08	<5	<5	5.4	26	31.4	<5	9.4	<0.021	<1
MW-23	10/16/08	**4,200**	**19,000**	**2,400**	**10,700**	36,300	**1,700**	**1,300**	<0.021	<10
MW-24	10/16/08	**10,000**	**16,000**	**2,400**	**13,300**	41,700	**4,500**	**1,300**	<0.02	<10
MW-25	10/22/08	**60**	270	160	920	1,410	<5	**59**	<0.021	4.07
MW-26	10/23/08	<5	<5	<5	<5	ND	<5	<5	<0.021	2.13
MW-27	10/23/08	**14,000**	**24,000**	**3,000**	**15,800**	56,800	**2,500**	**1,500**	<0.021	1.62
MW-28	10/23/08	<5	<5	<5	<5	ND	15	<5	<0.02	<1
MW-29	10/16/08	**28,000**	**120,000**	**26,000**	**126,000**	300,000	**13,000**	**12,000**	**0.25**	14.7
MW-30	10/16/08	**1,700**	**62,000**	480	2430	66610	**930**	**200**	**0.33**	**110**
MW-31	10/22/08	**11,000**	**25,000**	**2,600**	**12,900**	51,500	**14,000**	**870**	<0.021	<10
DMW-1	04/09/07	**13**	19	<5.0	<5.0	32	<5.0	<5.0	NS	NS
	11/15/07	**300**	490	90	420	1300	**210**	**31**	NS	NS
	10/16/08	**85**	170	19	104	378	33	<5	<0.021	<10
DMW-2	11/15/07	**8.9**	77	24	96	205.9	<1	11	NS	**96.8**
	10/16/08	**59**	440	72	380	951	<50	<50	<0.02	<10
DMW-3	10/16/08	<5	8.1	<5	5.3	13.4	<5	<5	<0.021	<10
KMO-17	11/15/08	<1	<1	<1	<1	---	<1	<5	NS	<10
	10/22/08	<5	<5	<5	<5	---	<5	<5	<0.021	2.42
KMO-18	11/15/08	**350**	3.5	1.6	5.5	360.6	**110**	13	NS	**40.6**
	10/22/08	<5	<5	<5	<5	---	<5	<5	<.02	<1
RBSL	**NA**	**5**	**1000**	**700**	**10000**	**NE**	**40**	**25**	**0.05**	**15**

RBSL = Risk Based Screening Levels; NA = Not Applicable; NS = Not Sampled

Bold concentrations represent those greater than their respective RBSL; Analytical results in µg/l unless otherwise noted.

* denotes results in mg/L

NE = Not Established

- = Not Applicable

EDB = ethylene dibromide; MTBE = methyl-tert-butyl ether

FIGURES

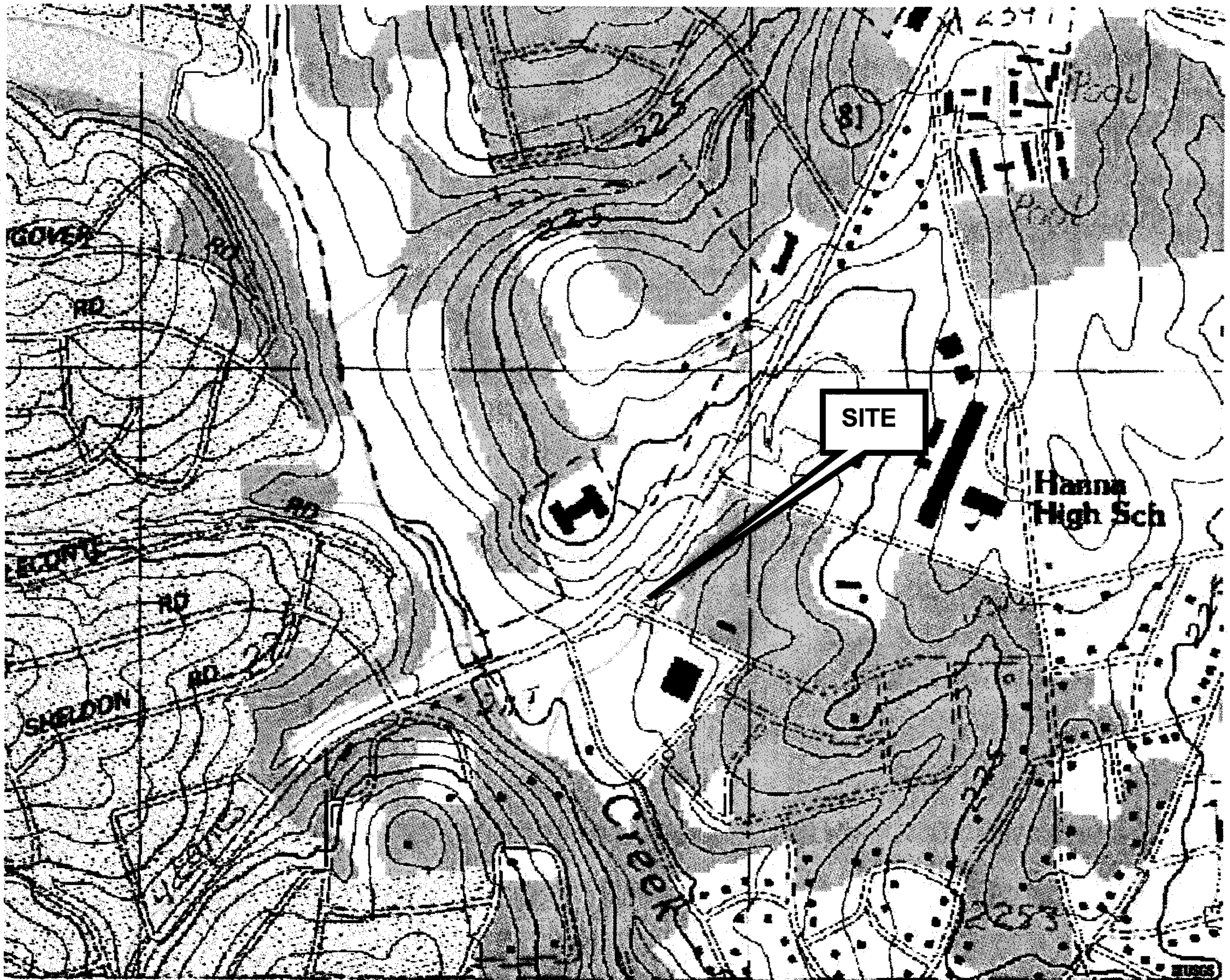


Figure 1: Site Location Map
81 Food Mart
(Former Pantry #585)
1502 East Greenville Street
Anderson, South Carolina
UST Permit #12458

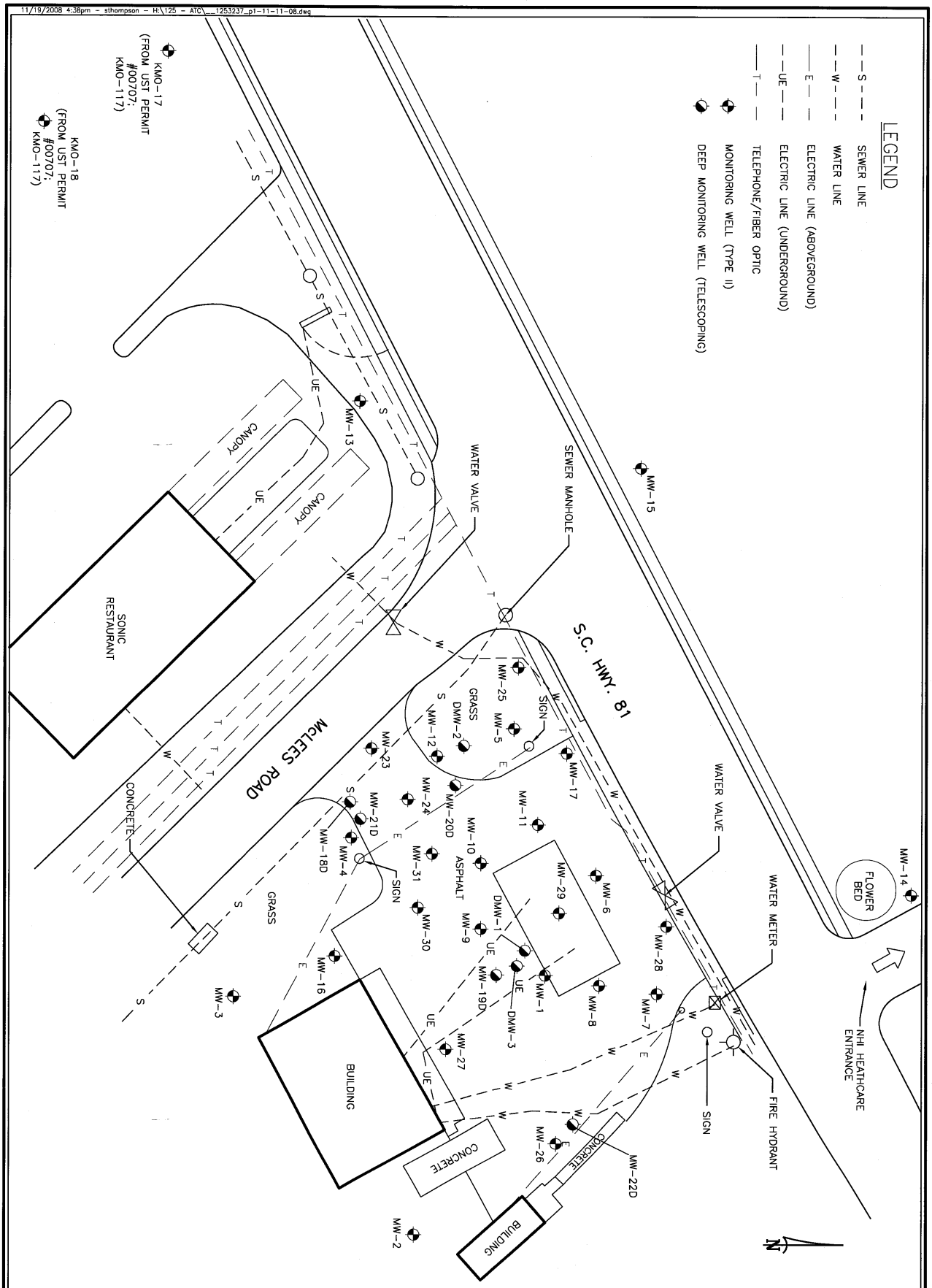
ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q Columbia, South Carolina
Phone (803) 735-0003
Fax (803) 735-0443

ATC PROJECT No: 14.25384.0585

SOURCE: USGS Topographic Map Anderson, SC Quadrangle	1"= 885'

11/19/2008 4:38pm - sthompson - H:\125 - ATC__1253237_p1-11-11-08.dwg

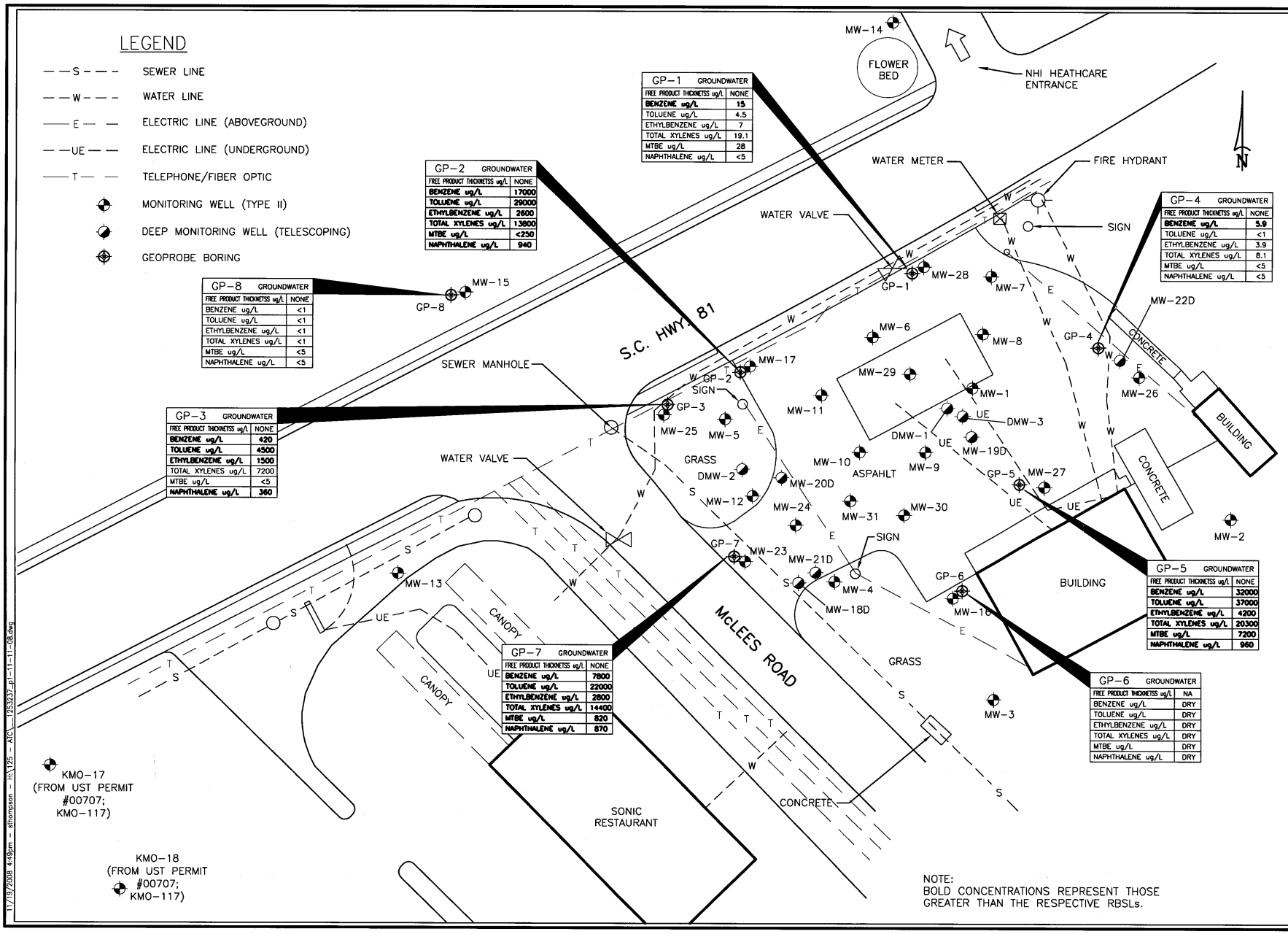


NOTES:

TITLE **FIGURE 2** UST PERMIT #12458
SITE MAP
FORMER PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

ATC ASSOCIATES INC.
Columbia, South Carolina 29203 (803) 735-0003 FAX (803) 735-0443

CAD FILE	DSCA ID	PREP. BY	REV. BY	SCALE	DATE	PROJECT NO.
1253237.dwg		JW		1" = 30'	11-11-2008	89.25384.0585



GP-1 GROUNDWATER	
FREE PRODUCT THICKNESS ug/L	NONE
BENZENE ug/L	**15**
TOLUENE ug/L	4.5
ETHYLBENZENE ug/L	7
TOTAL XYLENES ug/L	19.1
MTBE ug/L	28
NAPHTHALENE ug/L	<5

GP-2 GROUNDWATER	
FREE PRODUCT THICKNESS ug/L	NONE
BENZENE ug/L	**17000**
TOLUENE ug/L	**29000**
ETHYLBENZENE ug/L	**2600**
TOTAL XYLENES ug/L	**13800**
MTBE ug/L	**<250**
NAPHTHALENE ug/L	**940**

GP-8 GROUNDWATER	
FREE PRODUCT THICKNESS ug/L	NONE
BENZENE ug/L	<1
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<1
MTBE ug/L	<5
NAPHTHALENE ug/L	<5

GP-3 GROUNDWATER	
FREE PRODUCT THICKNESS ug/L	NONE
BENZENE ug/L	**420**
TOLUENE ug/L	**4500**
ETHYLBENZENE ug/L	**1500**
TOTAL XYLENES ug/L	7200
MTBE ug/L	<5
NAPHTHALENE ug/L	**360**

GP-7 GROUNDWATER	
FREE PRODUCT THICKNESS ug/L	NONE
BENZENE ug/L	**7800**
TOLUENE ug/L	**22000**
ETHYLBENZENE ug/L	**2800**
TOTAL XYLENES ug/L	**14400**
MTBE ug/L	**820**
NAPHTHALENE ug/L	**870**

GP-4 GROUNDWATER	
FREE PRODUCT THICKNESS ug/L	NONE
BENZENE ug/L	**5.9**
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	3.9
TOTAL XYLENES ug/L	8.1
MTBE ug/L	<5
NAPHTHALENE ug/L	<5

GP-5 GROUNDWATER	
FREE PRODUCT THICKNESS ug/L	NONE
BENZENE ug/L	**32000**
TOLUENE ug/L	**37000**
ETHYLBENZENE ug/L	**4200**
TOTAL XYLENES ug/L	**20300**
MTBE ug/L	**7200**
NAPHTHALENE ug/L	**960**

GP-6 GROUNDWATER	
FREE PRODUCT THICKNESS ug/L	NA
BENZENE ug/L	DRY
TOLUENE ug/L	DRY
ETHYLBENZENE ug/L	DRY
TOTAL XYLENES ug/L	DRY
MTBE ug/L	DRY
NAPHTHALENE ug/L	DRY

NOTE:
BOLD CONCENTRATIONS REPRESENT THOSE GREATER THAN THE RESPECTIVE RBSLs.

NOTES:

TITLE **FIGURE 3** UST PERMIT #12458
DPT GROUNDWATER SCREENING CONCENTRATIONS
FORMER PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

ATC ASSOCIATES INC.
Columbia, South Carolina 29203 (803) 735-0003 FAX (803) 735-0443

CAD FILE	DSCA ID	PREP. BY	REV. BY	SCALE	DATE	PROJECT NO.
1253237.dwg		JW		1" = 30'	11-11-2008	89.25384.0585

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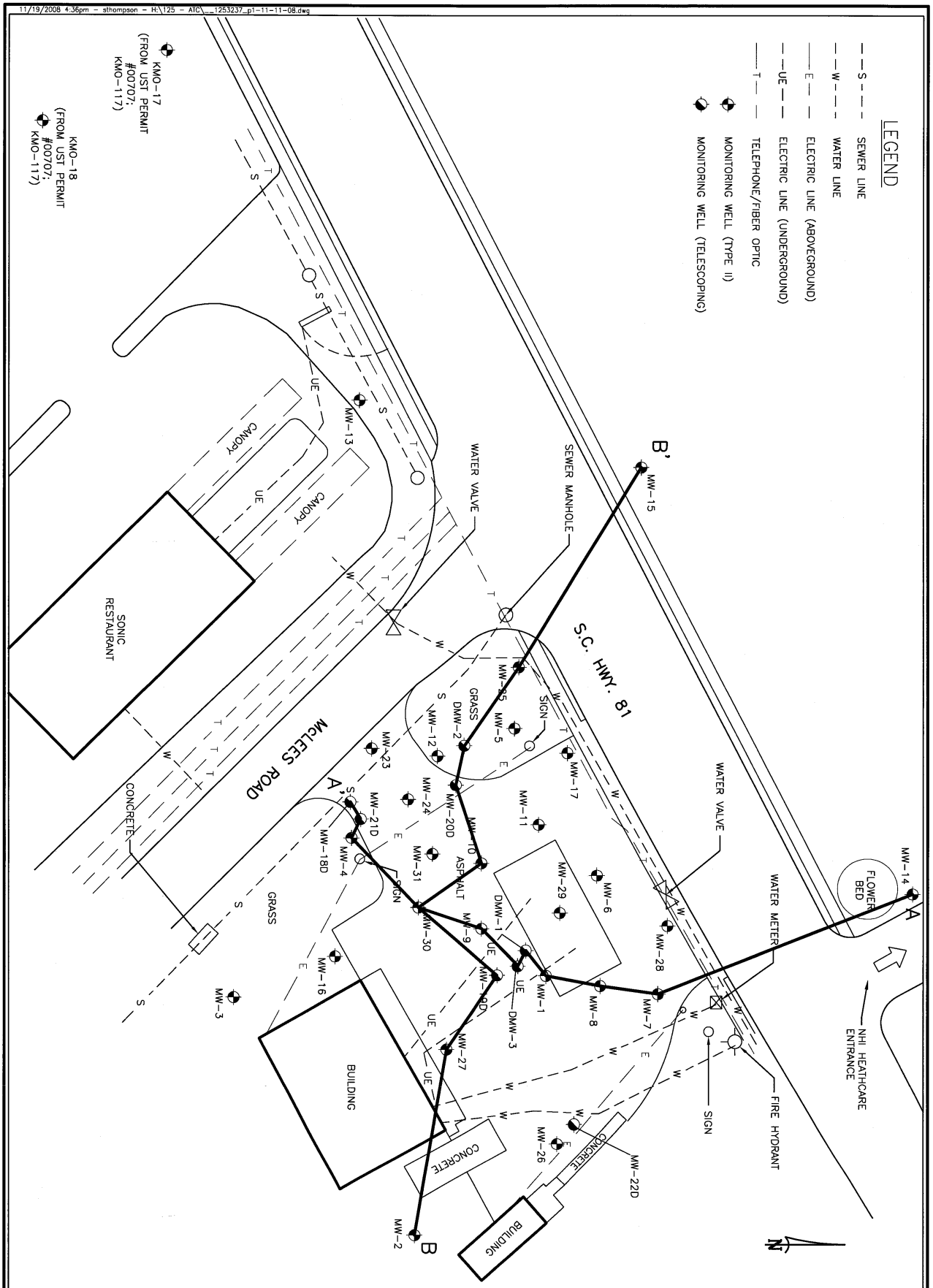


NOTES:

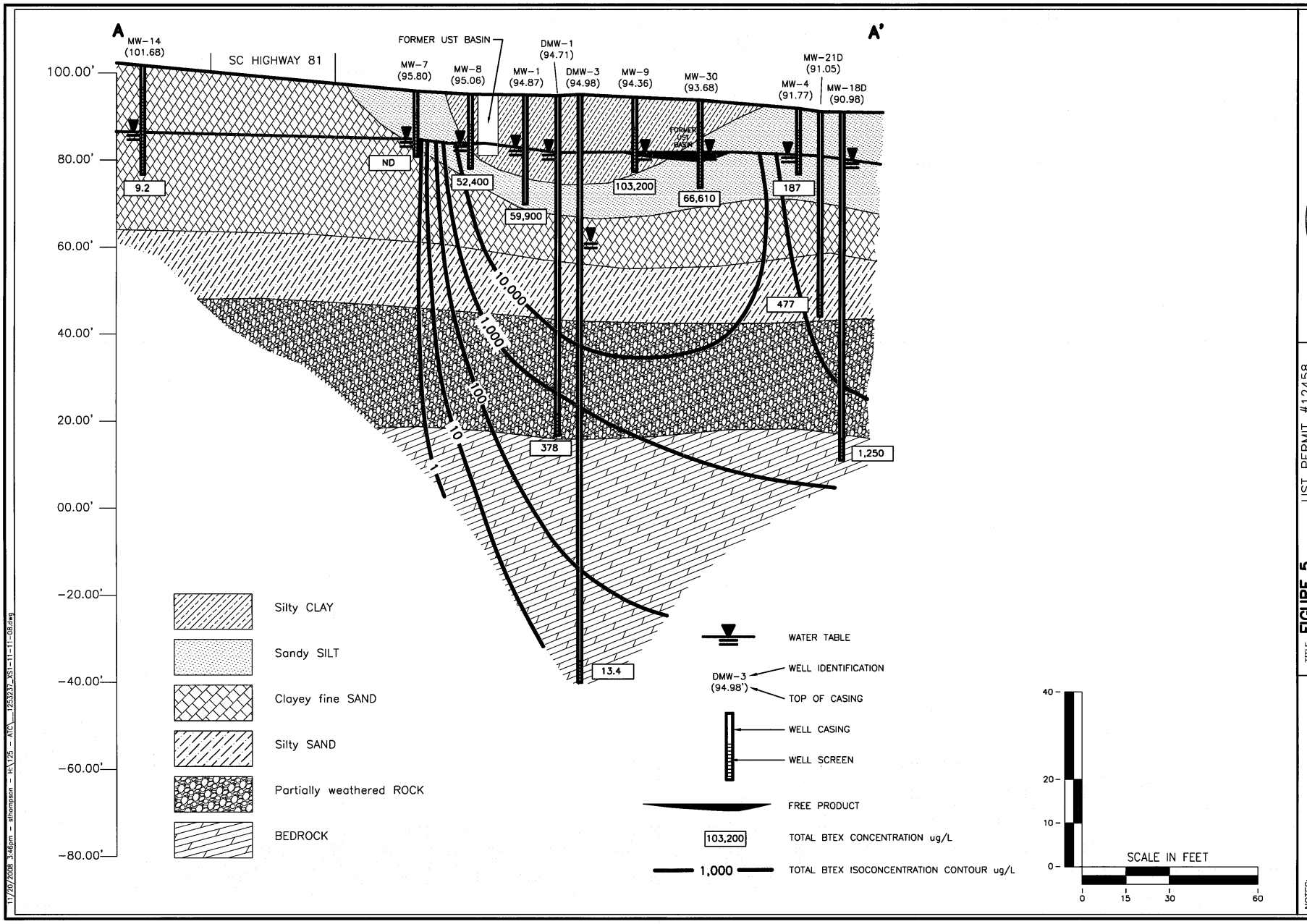
1. "A" TRANSECT INCLUDES: MW-7,8,DMW-1,9,30,21D & 18D. "B" TRANSECT INCLUDES: MW-15,17,11,29,DMW-1,DMW-3,19D,27 & 2.

TITLE **FIGURE 4** UST PERMIT #12458

GEOLOGIC TRANSECT MAP
FORMER PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

ATC ASSOCIATES INC.
Columbia, South Carolina 29203 (803) 735-0003 FAX (803) 735-0443

CAD FILE	DSCA ID	PREP. BY	REV. BY	SCALE	DATE	PROJECT NO.
1253237.dwg		JW		1" = 30'	11-11-2008	89.25384.0585



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TITLE **FIGURE 5** UST PERMIT #12458
GEOLOGIC CROSS-SECTION A-A'
FORMER PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

CAD FILE	DSCA ID	PREP. BY	REV. BY	SCALE	DATE	PROJECT NO.
1253237.dwg		JW		AS NOTED	11-11-2008	89.25384.0585

NOTES:

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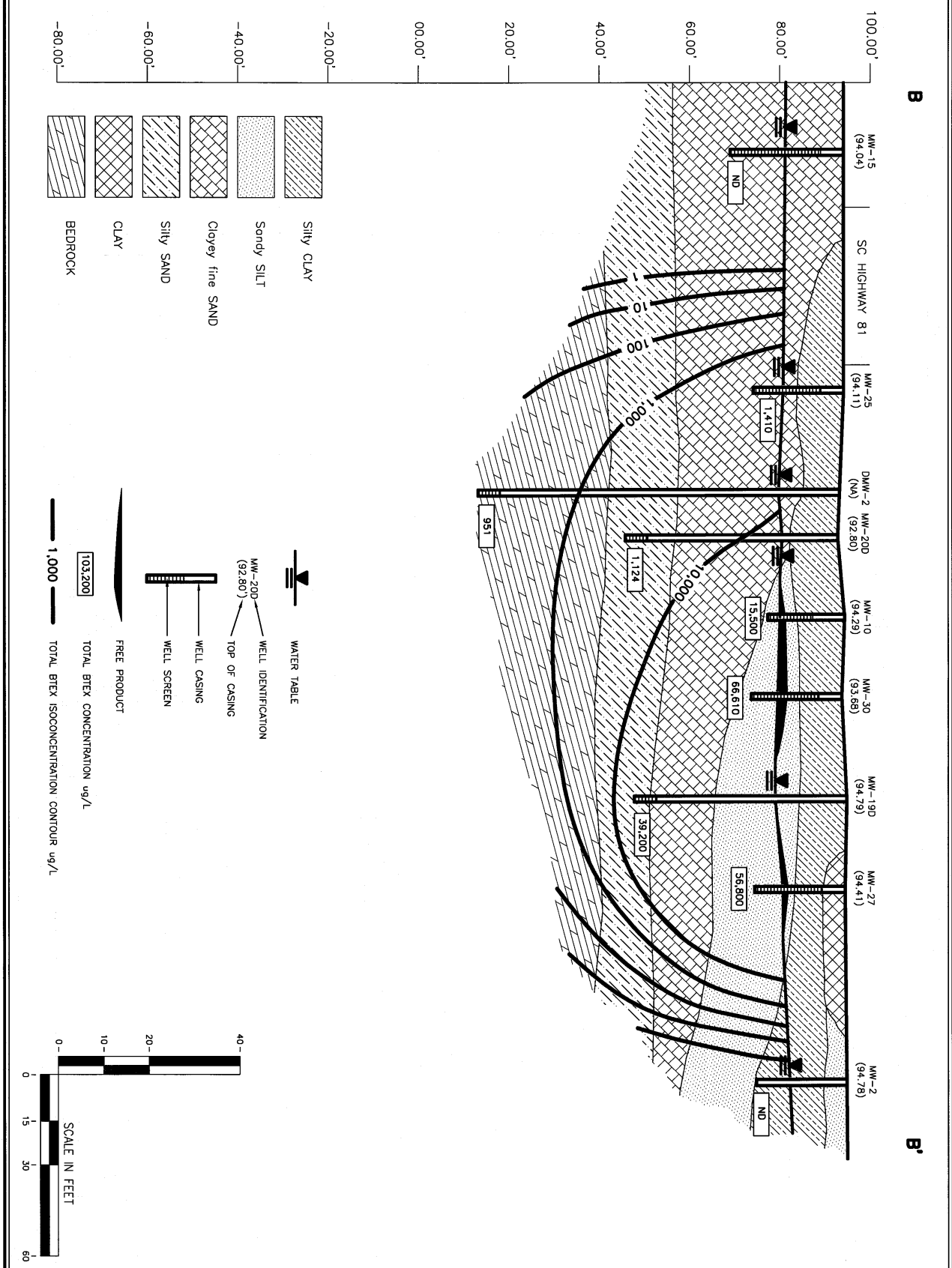


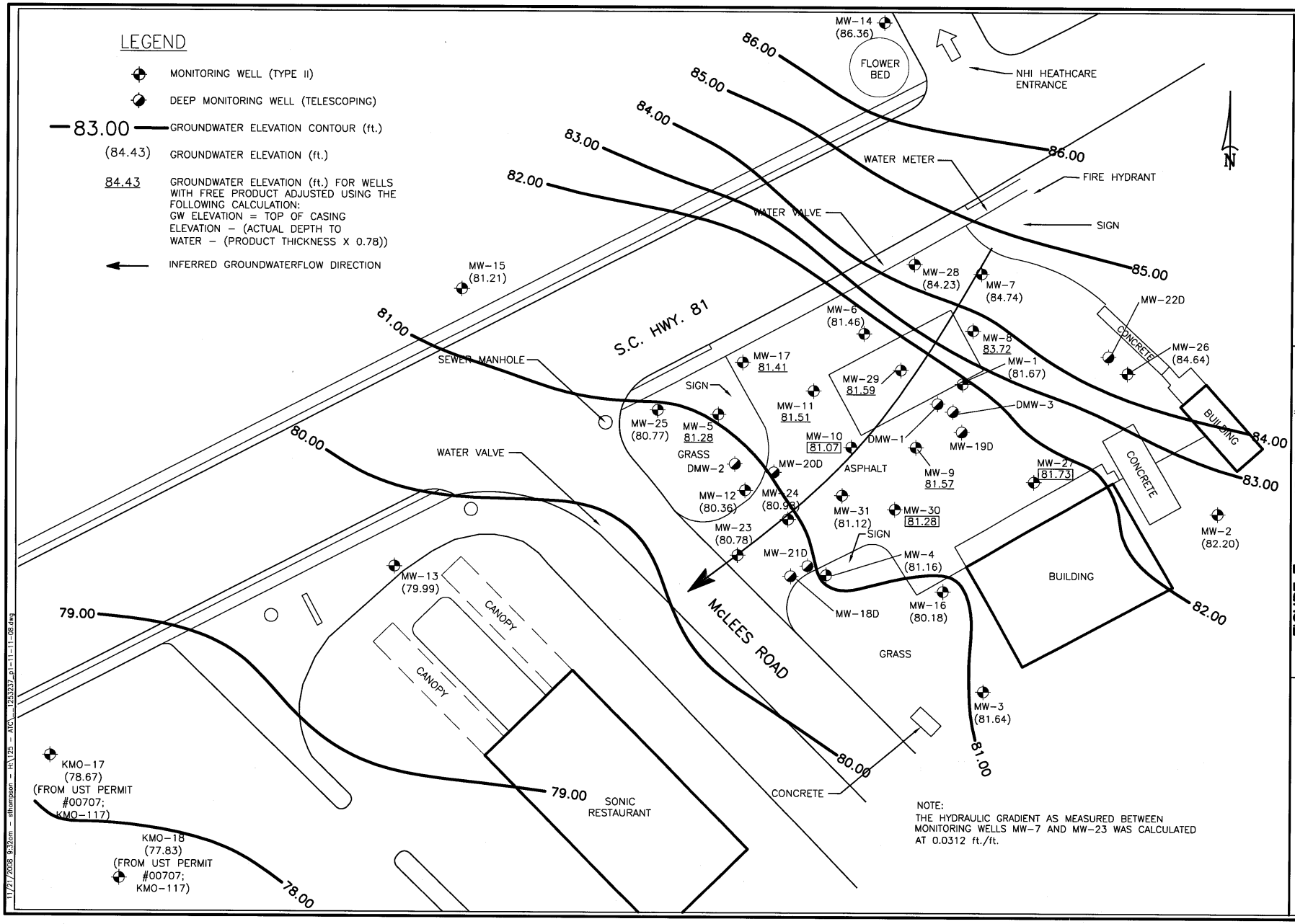
NOTES:

TITLE **FIGURE 6** UST PERMIT #12458

GEOLOGIC CROSS-SECTION B-B'
FORMER PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

ATC ASSOCIATES INC.
Columbia, South Carolina 29203 (803) 735-0003 FAX (803) 735-0443

CAD FILE	DSCA ID	PREP. BY	REV. BY	SCALE	DATE	PROJECT NO.
1253237.dwg		JW		AS NOTED	11-11-2008	89.25384.0585



NOTE:
THE HYDRAULIC GRADIENT AS MEASURED BETWEEN MONITORING WELLS MW-7 AND MW-23 WAS CALCULATED AT 0.0312 ft./ft.

NOTES:
1. DEPTH TO WATER DATA FROM DEEP WELLS NOT INCLUDED IN CONTOURS.

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Columbia, South Carolina 29203 (803) 735-0003 FAX (803) 735-0443

TITLE **FIGURE 7** UST PERMIT #12458
GROUNDWATER ELEVATION CONTOUR MAP (OCT. 08)
FORMER PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

CAD FILE	DSCA ID	PREP. BY	REV. BY	SCALE	DATE	PROJECT NO.
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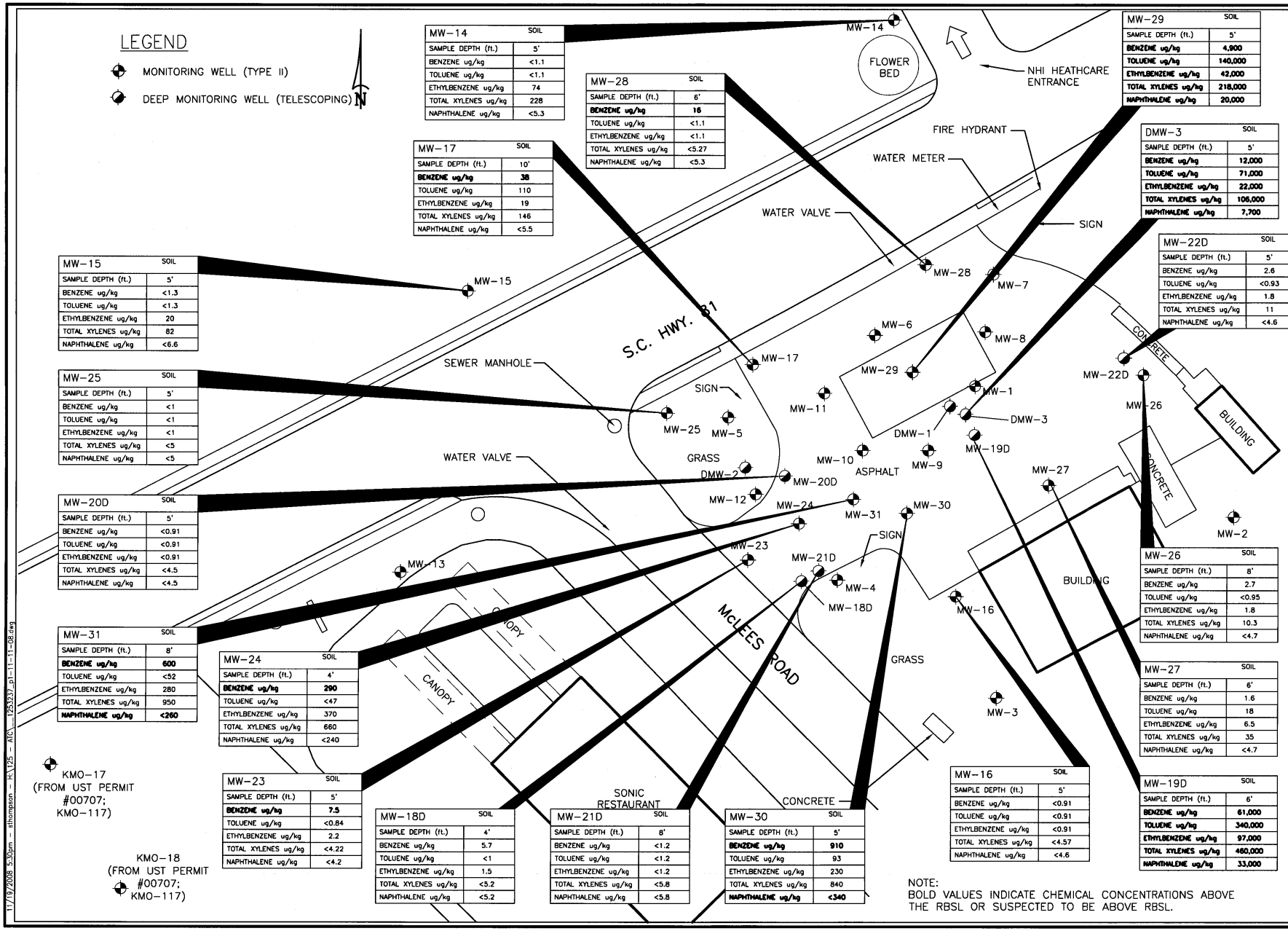

MW-14	SOIL
SAMPLE DEPTH (ft.)	5'
BENZENE ug/kg	<1.1
TOLUENE ug/kg	<1.1
ETHYLBENZENE ug/kg	74
TOTAL XYLENES ug/kg	228
NAPHTHALENE ug/kg	<5.3

MW-28	SOIL
SAMPLE DEPTH (ft.)	6'
BENZENE ug/kg	**16**
TOLUENE ug/kg	<1.1
ETHYLBENZENE ug/kg	<1.1
TOTAL XYLENES ug/kg	<5.27
NAPHTHALENE ug/kg	<5.3

MW-29	SOIL
SAMPLE DEPTH (ft.)	5'
BENZENE ug/kg	**4,900**
TOLUENE ug/kg	**140,000**
ETHYLBENZENE ug/kg	**42,000**
TOTAL XYLENES ug/kg	**218,000**
NAPHTHALENE ug/kg	**20,000**

DMW-3	SOIL
SAMPLE DEPTH (ft.)	5'
BENZENE ug/kg	**12,000**
TOLUENE ug/kg	**71,000**
ETHYLBENZENE ug/kg	**22,000**
TOTAL XYLENES ug/kg	**106,000**
NAPHTHALENE ug/kg	**7,700**

MW-17	SOIL
SAMPLE DEPTH (ft.)	10'
BENZENE ug/kg	**38**
TOLUENE ug/kg	110
ETHYLBENZENE ug/kg	19
TOTAL XYLENES ug/kg	146
NAPHTHALENE ug/kg	<5.5

MW-22D	SOIL
SAMPLE DEPTH (ft.)	5'
BENZENE ug/kg	2.6
TOLUENE ug/kg	<0.93
ETHYLBENZENE ug/kg	1.8
TOTAL XYLENES ug/kg	11
NAPHTHALENE ug/kg	<4.6

MW-15	SOIL
SAMPLE DEPTH (ft.)	5'
BENZENE ug/kg	<1.3
TOLUENE ug/kg	<1.3
ETHYLBENZENE ug/kg	20
TOTAL XYLENES ug/kg	82
NAPHTHALENE ug/kg	<6.6

MW-25	SOIL
SAMPLE DEPTH (ft.)	5'
BENZENE ug/kg	<1
TOLUENE ug/kg	<1
ETHYLBENZENE ug/kg	<1
TOTAL XYLENES ug/kg	<5
NAPHTHALENE ug/kg	<5

MW-20D	SOIL
SAMPLE DEPTH (ft.)	5'
BENZENE ug/kg	<0.91
TOLUENE ug/kg	<0.91
ETHYLBENZENE ug/kg	<0.91
TOTAL XYLENES ug/kg	<4.5
NAPHTHALENE ug/kg	<4.5

MW-26	SOIL
SAMPLE DEPTH (ft.)	8'
BENZENE ug/kg	2.7
TOLUENE ug/kg	<0.95
ETHYLBENZENE ug/kg	1.8
TOTAL XYLENES ug/kg	10.3
NAPHTHALENE ug/kg	<4.7

MW-31	SOIL
SAMPLE DEPTH (ft.)	8'
BENZENE ug/kg	**600**
TOLUENE ug/kg	<52
ETHYLBENZENE ug/kg	280
TOTAL XYLENES ug/kg	950
NAPHTHALENE ug/kg	**<260**

MW-24	SOIL
SAMPLE DEPTH (ft.)	4'
BENZENE ug/kg	**290**
TOLUENE ug/kg	<47
ETHYLBENZENE ug/kg	370
TOTAL XYLENES ug/kg	660
NAPHTHALENE ug/kg	<240

MW-27	SOIL
SAMPLE DEPTH (ft.)	6'
BENZENE ug/kg	1.6
TOLUENE ug/kg	18
ETHYLBENZENE ug/kg	6.5
TOTAL XYLENES ug/kg	35
NAPHTHALENE ug/kg	<4.7

MW-23	SOIL
SAMPLE DEPTH (ft.)	5'
BENZENE ug/kg	**7.5**
TOLUENE ug/kg	<0.84
ETHYLBENZENE ug/kg	2.2
TOTAL XYLENES ug/kg	<4.22
NAPHTHALENE ug/kg	<4.2

MW-18D	SOIL
SAMPLE DEPTH (ft.)	4'
BENZENE ug/kg	5.7
TOLUENE ug/kg	<1
ETHYLBENZENE ug/kg	1.5
TOTAL XYLENES ug/kg	<5.2
NAPHTHALENE ug/kg	<5.2

MW-21D	SOIL
SAMPLE DEPTH (ft.)	8'
BENZENE ug/kg	<1.2
TOLUENE ug/kg	<1.2
ETHYLBENZENE ug/kg	<1.2
TOTAL XYLENES ug/kg	<5.8
NAPHTHALENE ug/kg	<5.8

MW-30	SOIL
SAMPLE DEPTH (ft.)	5'
BENZENE ug/kg	**910**
TOLUENE ug/kg	93
ETHYLBENZENE ug/kg	230
TOTAL XYLENES ug/kg	840
NAPHTHALENE ug/kg	**<340**

MW-16	SOIL
SAMPLE DEPTH (ft.)	5'
BENZENE ug/kg	<0.91
TOLUENE ug/kg	<0.91
ETHYLBENZENE ug/kg	<0.91
TOTAL XYLENES ug/kg	<4.57
NAPHTHALENE ug/kg	<4.6

MW-19D	SOIL
SAMPLE DEPTH (ft.)	6'
BENZENE ug/kg	**61,000**
TOLUENE ug/kg	**340,000**
ETHYLBENZENE ug/kg	**97,000**
TOTAL XYLENES ug/kg	**460,000**
NAPHTHALENE ug/kg	**33,000**

NOTE:
BOLD VALUES INDICATE CHEMICAL CONCENTRATIONS ABOVE THE RBSL OR SUSPECTED TO BE ABOVE RBSL.

NOTES:
1. BOLD NUMBER INDICATES CHEMICAL CONCENTRATIONS ABOVE THE RBSL OR SUSPECTED TO BE ABOVE RBSL.
2. * = MEASURED IN mg/L

TITLE **FIGURE 8**
SOIL CONCENTRATIONS MAP (OCT. 08)
FORMER PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

UST PERMIT #12458

ATC ASSOCIATES INC.
Columbia, South Carolina 29203 (803) 735-0003 FAX (803) 735-0443

CAD FILE	DSCA ID	PREP. BY	REV. BY	SCALE	DATE	PROJECT NO.
1253237.dwg		JW		1" = 30'	11-11-2008	89.25384.0585

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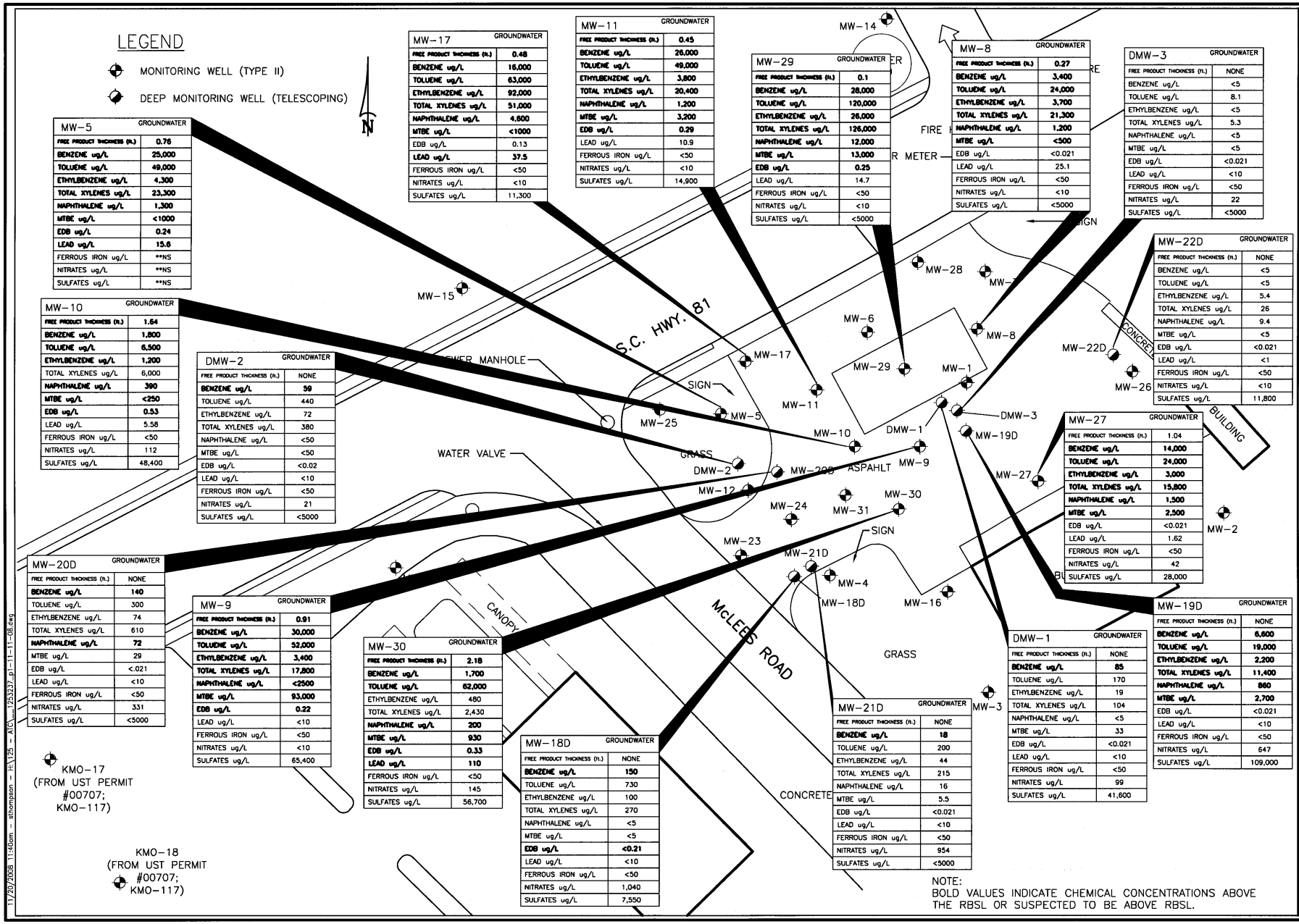

MW-5	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	0.76
BENZENE ug/L	25,000
TOLUENE ug/L	49,000
ETHYLBENZENE ug/L	4,300
TOTAL XYLENES ug/L	23,300
NAPHTHALENE ug/L	1,300
MTBE ug/L	<1000
EDB ug/L	0.24
LEAD ug/L	15.6
FERROUS IRON ug/L	**NS
NITRATES ug/L	**NS
SULFATES ug/L	**NS

MW-10	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	1.64
BENZENE ug/L	1,800
TOLUENE ug/L	6,500
ETHYLBENZENE ug/L	1,200
TOTAL XYLENES ug/L	6,000
NAPHTHALENE ug/L	390
MTBE ug/L	<250
EDB ug/L	0.53
LEAD ug/L	5.58
FERROUS IRON ug/L	<50
NITRATES ug/L	112
SULFATES ug/L	48,400

DMW-2	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	59
TOLUENE ug/L	440
ETHYLBENZENE ug/L	72
TOTAL XYLENES ug/L	380
NAPHTHALENE ug/L	<50
MTBE ug/L	<50
EDB ug/L	<0.02
LEAD ug/L	<10
FERROUS IRON ug/L	<50
NITRATES ug/L	21
SULFATES ug/L	<5000

MW-20D	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	140
TOLUENE ug/L	300
ETHYLBENZENE ug/L	74
TOTAL XYLENES ug/L	610
NAPHTHALENE ug/L	72
MTBE ug/L	29
EDB ug/L	<.021
LEAD ug/L	<10
FERROUS IRON ug/L	<50
NITRATES ug/L	331
SULFATES ug/L	<5000

MW-9	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	0.91
BENZENE ug/L	30,000
TOLUENE ug/L	52,000
ETHYLBENZENE ug/L	3,400
TOTAL XYLENES ug/L	17,800
NAPHTHALENE ug/L	<2500
MTBE ug/L	93,000
EDB ug/L	0.22
LEAD ug/L	<10
FERROUS IRON ug/L	<50
NITRATES ug/L	<10
SULFATES ug/L	65,400

MW-17	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	0.48
BENZENE ug/L	16,000
TOLUENE ug/L	63,000
ETHYLBENZENE ug/L	92,000
TOTAL XYLENES ug/L	51,000
NAPHTHALENE ug/L	4,600
MTBE ug/L	<1000
EDB ug/L	0.13
LEAD ug/L	37.5
FERROUS IRON ug/L	<50
NITRATES ug/L	<10
SULFATES ug/L	11,300

MW-11	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	0.45
BENZENE ug/L	26,000
TOLUENE ug/L	49,000
ETHYLBENZENE ug/L	3,800
TOTAL XYLENES ug/L	20,400
NAPHTHALENE ug/L	1,200
MTBE ug/L	3,200
EDB ug/L	0.29
LEAD ug/L	10.9
FERROUS IRON ug/L	<50
NITRATES ug/L	<10
SULFATES ug/L	14,900

MW-29	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	0.1
BENZENE ug/L	28,000
TOLUENE ug/L	120,000
ETHYLBENZENE ug/L	26,000
TOTAL XYLENES ug/L	126,000
NAPHTHALENE ug/L	12,000
MTBE ug/L	13,000
EDB ug/L	0.25
LEAD ug/L	14.7
FERROUS IRON ug/L	<50
NITRATES ug/L	<10
SULFATES ug/L	<5000

MW-8	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	0.27
BENZENE ug/L	3,400
TOLUENE ug/L	24,000
ETHYLBENZENE ug/L	3,700
TOTAL XYLENES ug/L	21,300
NAPHTHALENE ug/L	1,200
MTBE ug/L	<500
EDB ug/L	<0.021
LEAD ug/L	25.1
FERROUS IRON ug/L	<50
NITRATES ug/L	<10
SULFATES ug/L	<5000

DMW-3	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<5
TOLUENE ug/L	8.1
ETHYLBENZENE ug/L	<5
TOTAL XYLENES ug/L	5.3
NAPHTHALENE ug/L	<5
MTBE ug/L	<5
EDB ug/L	<0.021
LEAD ug/L	<10
FERROUS IRON ug/L	<50
NITRATES ug/L	22
SULFATES ug/L	<5000

MW-22D	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<5
TOLUENE ug/L	<5
ETHYLBENZENE ug/L	5.4
TOTAL XYLENES ug/L	26
NAPHTHALENE ug/L	9.4
MTBE ug/L	<5
EDB ug/L	<0.021
LEAD ug/L	<1
FERROUS IRON ug/L	<50
NITRATES ug/L	<10
SULFATES ug/L	11,800

MW-27	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	1.04
BENZENE ug/L	14,000
TOLUENE ug/L	24,000
ETHYLBENZENE ug/L	3,000
TOTAL XYLENES ug/L	15,800
NAPHTHALENE ug/L	1,500
MTBE ug/L	2,500
EDB ug/L	<0.021
LEAD ug/L	1.62
FERROUS IRON ug/L	<50
NITRATES ug/L	42
SULFATES ug/L	28,000

MW-30	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	2.18
BENZENE ug/L	1,700
TOLUENE ug/L	62,000
ETHYLBENZENE ug/L	480
TOTAL XYLENES ug/L	2,430
NAPHTHALENE ug/L	200
MTBE ug/L	930
EDB ug/L	0.33
LEAD ug/L	110
FERROUS IRON ug/L	<50
NITRATES ug/L	145
SULFATES ug/L	56,700

MW-18D	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	150
TOLUENE ug/L	730
ETHYLBENZENE ug/L	100
TOTAL XYLENES ug/L	270
NAPHTHALENE ug/L	<5
MTBE ug/L	<5
EDB ug/L	<0.21
LEAD ug/L	<10
FERROUS IRON ug/L	<50
NITRATES ug/L	1,040
SULFATES ug/L	7,550

MW-21D	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	18
TOLUENE ug/L	200
ETHYLBENZENE ug/L	44
TOTAL XYLENES ug/L	215
NAPHTHALENE ug/L	16
MTBE ug/L	5.5
EDB ug/L	<0.021
LEAD ug/L	<10
FERROUS IRON ug/L	<50
NITRATES ug/L	954
SULFATES ug/L	<5000

DMW-1	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	85
TOLUENE ug/L	170
ETHYLBENZENE ug/L	19
TOTAL XYLENES ug/L	104
NAPHTHALENE ug/L	<5
MTBE ug/L	33
EDB ug/L	<0.021
LEAD ug/L	<10
FERROUS IRON ug/L	<50
NITRATES ug/L	99
SULFATES ug/L	41,600

MW-19D	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	6,600
TOLUENE ug/L	19,000
ETHYLBENZENE ug/L	2,200
TOTAL XYLENES ug/L	11,400
NAPHTHALENE ug/L	860
MTBE ug/L	2,700
EDB ug/L	<0.021
LEAD ug/L	<10
FERROUS IRON ug/L	<50
NITRATES ug/L	647
SULFATES ug/L	109,000

KMO-17
(FROM UST PERMIT
#00707;
KMO-117)

KMO-18
(FROM UST PERMIT
#00707;
KMO-117)

NOTE:
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NOTES:
1. BOLD NUMBER INDICATES CHEMICAL CONCENTRATIONS ABOVE THE RBSL OR SUSPECTED TO BE ABOVE RBSL.
2. * = MEASURED IN mg/L
3. FREE PRODUCT THICKNESS MEASURED IN FEET.
4. ** -- THE MW-5 CONTAINER FOR FERROUS IRON, NITRATES, AND SULFATES BROKE; DURING TRANSIT. SUBSEQUENTLY, THESE PARAMETERS WERE NOT ANALYZED BY THE LABORATORY.

ATC ASSOCIATES INC.
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TITLE **FIGURE 9A** UST PERMIT #12458
GROUNDWATER CONCENTRATIONS MAP (OCT. 08)
FORMER PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

CAD FILE	DSCA ID	PREP. BY	REV. BY	SCALE	DATE	PROJECT NO.
1253237.dwg		JW		1" = 30'	11-11-2008	89.25384.0585

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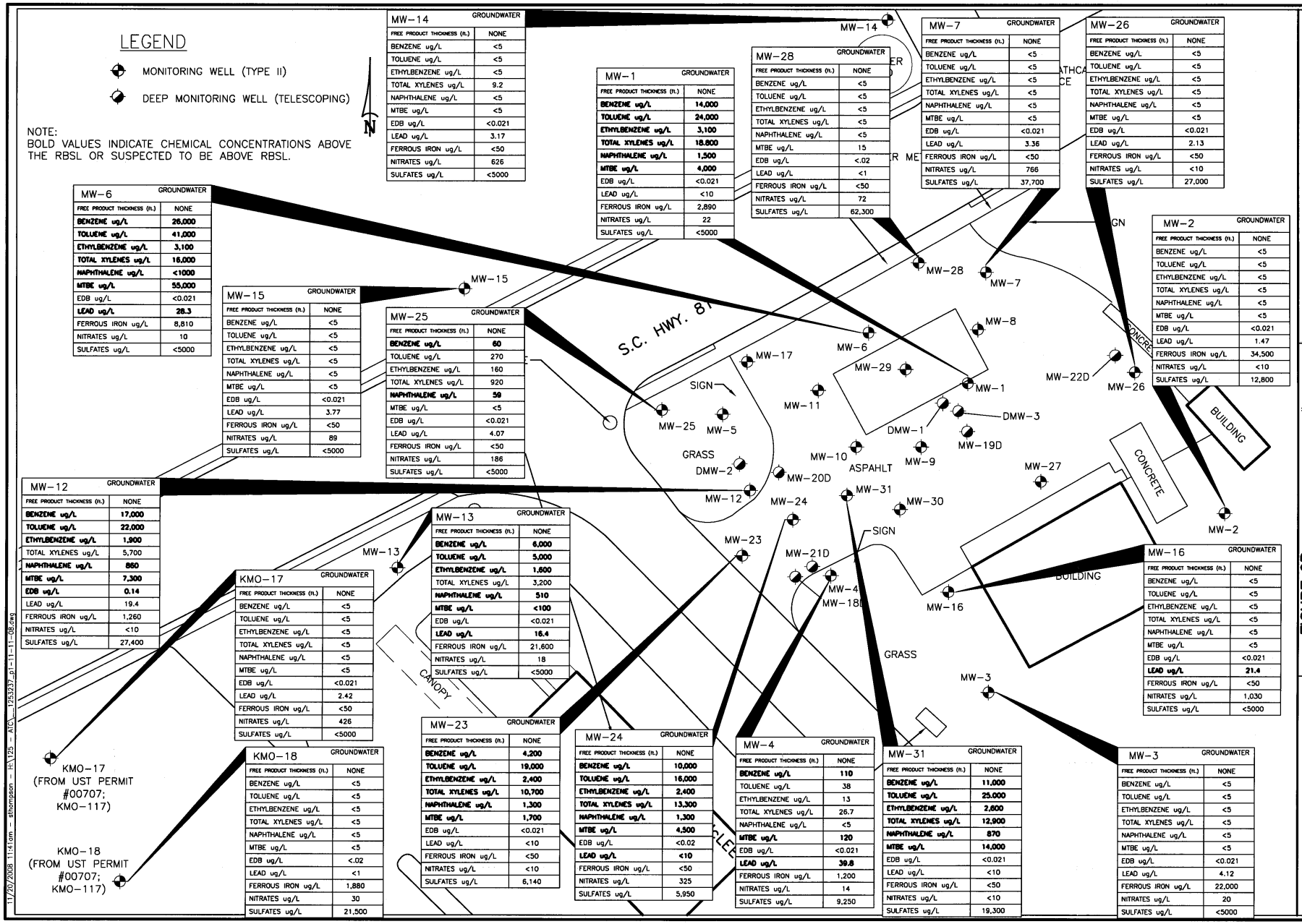
LEGEND

- MONITORING WELL (TYPE II)
- DEEP MONITORING WELL (TELESCOPING)

NOTE:
BOLD VALUES INDICATE CHEMICAL CONCENTRATIONS ABOVE THE RBSL OR SUSPECTED TO BE ABOVE RBSL.

N



MW-14	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<5
TOLUENE ug/L	<5
ETHYLBENZENE ug/L	<5
TOTAL XYLENES ug/L	9.2
NAPHTHALENE ug/L	<5
MTBE ug/L	<5
EDB ug/L	<0.021
LEAD ug/L	3.17
FERROUS IRON ug/L	<50
NITRATES ug/L	626
SULFATES ug/L	<5000

MW-1	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	**14,000**
TOLUENE ug/L	**24,000**
ETHYLBENZENE ug/L	**3,100**
TOTAL XYLENES ug/L	**18,800**
NAPHTHALENE ug/L	**1,500**
MTBE ug/L	**4,000**
EDB ug/L	<0.021
LEAD ug/L	<10
FERROUS IRON ug/L	2,890
NITRATES ug/L	22
SULFATES ug/L	<5000

MW-28	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<5
TOLUENE ug/L	<5
ETHYLBENZENE ug/L	<5
TOTAL XYLENES ug/L	<5
NAPHTHALENE ug/L	<5
MTBE ug/L	15
EDB ug/L	<.02
LEAD ug/L	<1
FERROUS IRON ug/L	<50
NITRATES ug/L	72
SULFATES ug/L	62,300

MW-7	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<5
TOLUENE ug/L	<5
ETHYLBENZENE ug/L	<5
TOTAL XYLENES ug/L	<5
NAPHTHALENE ug/L	<5
MTBE ug/L	<5
EDB ug/L	<0.021
LEAD ug/L	3.36
FERROUS IRON ug/L	<50
NITRATES ug/L	766
SULFATES ug/L	37,700

MW-26	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<5
TOLUENE ug/L	<5
ETHYLBENZENE ug/L	<5
TOTAL XYLENES ug/L	<5
NAPHTHALENE ug/L	<5
MTBE ug/L	<5
EDB ug/L	<0.021
LEAD ug/L	2.13
FERROUS IRON ug/L	<50
NITRATES ug/L	<10
SULFATES ug/L	27,000

MW-6	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	**26,000**
TOLUENE ug/L	**41,000**
ETHYLBENZENE ug/L	**3,100**
TOTAL XYLENES ug/L	**16,000**
NAPHTHALENE ug/L	**<1000**
MTBE ug/L	**55,000**
EDB ug/L	<0.021
LEAD ug/L	**28.3**
FERROUS IRON ug/L	8,810
NITRATES ug/L	10
SULFATES ug/L	<5000

MW-15	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<5
TOLUENE ug/L	<5
ETHYLBENZENE ug/L	<5
TOTAL XYLENES ug/L	<5
NAPHTHALENE ug/L	<5
MTBE ug/L	<5
EDB ug/L	<0.021
LEAD ug/L	3.77
FERROUS IRON ug/L	<50
NITRATES ug/L	89
SULFATES ug/L	<5000

MW-25	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	**60**
TOLUENE ug/L	270
ETHYLBENZENE ug/L	160
TOTAL XYLENES ug/L	920
NAPHTHALENE ug/L	**59**
MTBE ug/L	<5
EDB ug/L	<0.021
LEAD ug/L	4.07
FERROUS IRON ug/L	<50
NITRATES ug/L	186
SULFATES ug/L	<5000

MW-2	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<5
TOLUENE ug/L	<5
ETHYLBENZENE ug/L	<5
TOTAL XYLENES ug/L	<5
NAPHTHALENE ug/L	<5
MTBE ug/L	<5
EDB ug/L	<0.021
LEAD ug/L	1.47
FERROUS IRON ug/L	34,500
NITRATES ug/L	<10
SULFATES ug/L	12,800

MW-12	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	**17,000**
TOLUENE ug/L	**22,000**
ETHYLBENZENE ug/L	**1,900**
TOTAL XYLENES ug/L	5,700
NAPHTHALENE ug/L	**860**
MTBE ug/L	**7,300**
EDB ug/L	**0.14**
LEAD ug/L	19.4
FERROUS IRON ug/L	1,260
NITRATES ug/L	<10
SULFATES ug/L	27,400

MW-13	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	**6,000**
TOLUENE ug/L	**5,000**
ETHYLBENZENE ug/L	**1,600**
TOTAL XYLENES ug/L	3,200
NAPHTHALENE ug/L	**510**
MTBE ug/L	**<100**
EDB ug/L	<0.021
LEAD ug/L	**16.4**
FERROUS IRON ug/L	21,600
NITRATES ug/L	18
SULFATES ug/L	<5000

KMO-17	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<5
TOLUENE ug/L	<5
ETHYLBENZENE ug/L	<5
TOTAL XYLENES ug/L	<5
NAPHTHALENE ug/L	<5
MTBE ug/L	<5
EDB ug/L	<0.021
LEAD ug/L	2.42
FERROUS IRON ug/L	<50
NITRATES ug/L	426
SULFATES ug/L	<5000

KMO-18	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<5
TOLUENE ug/L	<5
ETHYLBENZENE ug/L	<5
TOTAL XYLENES ug/L	<5
NAPHTHALENE ug/L	<5
MTBE ug/L	<5
EDB ug/L	<.02
LEAD ug/L	<1
FERROUS IRON ug/L	1,880
NITRATES ug/L	30
SULFATES ug/L	21,500

MW-23	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	**4,200**
TOLUENE ug/L	**19,000**
ETHYLBENZENE ug/L	**2,400**
TOTAL XYLENES ug/L	**10,700**
NAPHTHALENE ug/L	**1,300**
MTBE ug/L	**1,700**
EDB ug/L	<0.021
LEAD ug/L	<10
FERROUS IRON ug/L	<50
NITRATES ug/L	<10
SULFATES ug/L	6,140

MW-24	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	**10,000**
TOLUENE ug/L	**16,000**
ETHYLBENZENE ug/L	**2,400**
TOTAL XYLENES ug/L	**13,300**
NAPHTHALENE ug/L	**1,300**
MTBE ug/L	**4,500**
EDB ug/L	<0.02
LEAD ug/L	**<10**
FERROUS IRON ug/L	<50
NITRATES ug/L	325
SULFATES ug/L	5,950

MW-4	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	**110**
TOLUENE ug/L	38
ETHYLBENZENE ug/L	13
TOTAL XYLENES ug/L	26.7
NAPHTHALENE ug/L	<5
MTBE ug/L	**120**
EDB ug/L	<0.021
LEAD ug/L	**39.8**
FERROUS IRON ug/L	1,200
NITRATES ug/L	14
SULFATES ug/L	9,250

MW-31	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	**11,000**
TOLUENE ug/L	**25,000**
ETHYLBENZENE ug/L	**2,600**
TOTAL XYLENES ug/L	**12,900**
NAPHTHALENE ug/L	**870**
MTBE ug/L	**14,000**
EDB ug/L	<0.021
LEAD ug/L	<10
FERROUS IRON ug/L	<50
NITRATES ug/L	<10
SULFATES ug/L	19,300

MW-3	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<5
TOLUENE ug/L	<5
ETHYLBENZENE ug/L	<5
TOTAL XYLENES ug/L	<5
NAPHTHALENE ug/L	<5
MTBE ug/L	<5
EDB ug/L	<0.021
LEAD ug/L	4.12
FERROUS IRON ug/L	22,000
NITRATES ug/L	20
SULFATES ug/L	<5000

MW-16	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<5
TOLUENE ug/L	<5
ETHYLBENZENE ug/L	<5
TOTAL XYLENES ug/L	<5
NAPHTHALENE ug/L	<5
MTBE ug/L	<5
EDB ug/L	<0.021
LEAD ug/L	**21.4**
FERROUS IRON ug/L	<50
NITRATES ug/L	1,030
SULFATES ug/L	<5000

NOTES:
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3. FREE PRODUCT THICKNESS MEASURED IN FEET.

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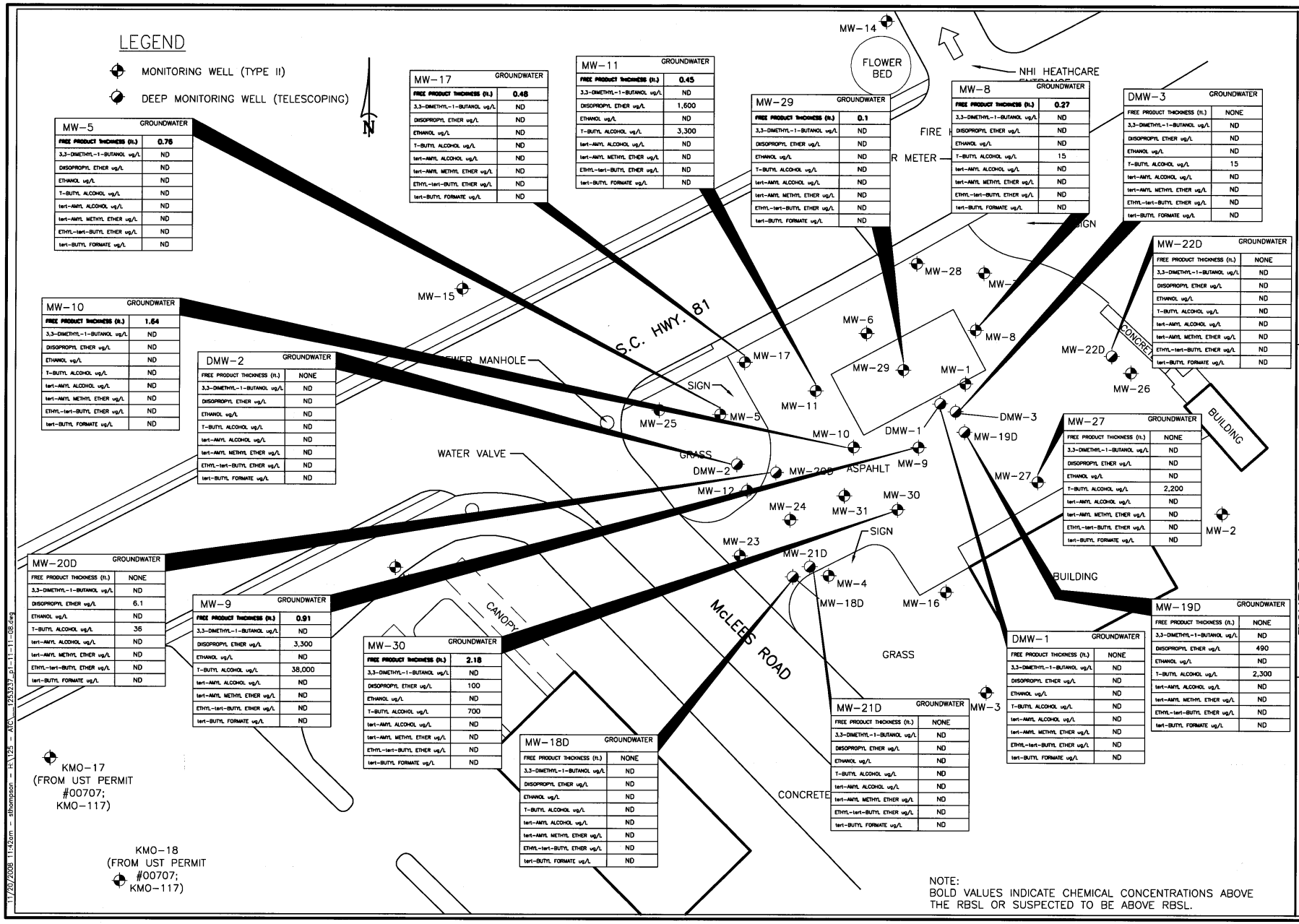
TITLE **FIGURE 9B** UST PERMIT #12458
GROUNDWATER CONCENTRATIONS MAP (OCT. 08)
FORMER PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

CAD FILE	DSCA ID	PREP. BY	REV. BY	SCALE	DATE	PROJECT NO.
1253237.dwg		JW		1" = 30'	11-11-2008	89.25384.0585

11/20/2008 11:41am – sthompson – H:\125 – ATC_1253237_g1-11-11-08.dwg



MW-5	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	0.76
3,3-DIMETHYL-1-BUTANOL ug/L	ND
DISOPROPYL ETHER ug/L	ND
ETHANOL ug/L	ND
T-BUTYL ALCOHOL ug/L	ND
tert-AMYL ALCOHOL ug/L	ND
tert-AMYL METHYL ETHER ug/L	ND
ETHYL-tert-BUTYL ETHER ug/L	ND
tert-BUTYL FORMATE ug/L	ND

MW-10	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	1.64
3,3-DIMETHYL-1-BUTANOL ug/L	ND
DISOPROPYL ETHER ug/L	ND
ETHANOL ug/L	ND
T-BUTYL ALCOHOL ug/L	ND
tert-AMYL ALCOHOL ug/L	ND
tert-AMYL METHYL ETHER ug/L	ND
ETHYL-tert-BUTYL ETHER ug/L	ND
tert-BUTYL FORMATE ug/L	ND

DMW-2	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
3,3-DIMETHYL-1-BUTANOL ug/L	ND
DISOPROPYL ETHER ug/L	ND
ETHANOL ug/L	ND
T-BUTYL ALCOHOL ug/L	ND
tert-AMYL ALCOHOL ug/L	ND
tert-AMYL METHYL ETHER ug/L	ND
ETHYL-tert-BUTYL ETHER ug/L	ND
tert-BUTYL FORMATE ug/L	ND

MW-20D	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
3,3-DIMETHYL-1-BUTANOL ug/L	ND
DISOPROPYL ETHER ug/L	6.1
ETHANOL ug/L	ND
T-BUTYL ALCOHOL ug/L	36
tert-AMYL ALCOHOL ug/L	ND
tert-AMYL METHYL ETHER ug/L	ND
ETHYL-tert-BUTYL ETHER ug/L	ND
tert-BUTYL FORMATE ug/L	ND

MW-9	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	0.91
3,3-DIMETHYL-1-BUTANOL ug/L	ND
DISOPROPYL ETHER ug/L	3,300
ETHANOL ug/L	ND
T-BUTYL ALCOHOL ug/L	38,000
tert-AMYL ALCOHOL ug/L	ND
tert-AMYL METHYL ETHER ug/L	ND
ETHYL-tert-BUTYL ETHER ug/L	ND
tert-BUTYL FORMATE ug/L	ND

MW-17	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	0.48
3,3-DIMETHYL-1-BUTANOL ug/L	ND
DISOPROPYL ETHER ug/L	ND
ETHANOL ug/L	ND
T-BUTYL ALCOHOL ug/L	ND
tert-AMYL ALCOHOL ug/L	ND
tert-AMYL METHYL ETHER ug/L	ND
ETHYL-tert-BUTYL ETHER ug/L	ND
tert-BUTYL FORMATE ug/L	ND

MW-11	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	0.45
3,3-DIMETHYL-1-BUTANOL ug/L	ND
DISOPROPYL ETHER ug/L	1,600
ETHANOL ug/L	ND
T-BUTYL ALCOHOL ug/L	3,300
tert-AMYL ALCOHOL ug/L	ND
tert-AMYL METHYL ETHER ug/L	ND
ETHYL-tert-BUTYL ETHER ug/L	ND
tert-BUTYL FORMATE ug/L	ND

MW-29	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	0.1
3,3-DIMETHYL-1-BUTANOL ug/L	ND
DISOPROPYL ETHER ug/L	ND
ETHANOL ug/L	ND
T-BUTYL ALCOHOL ug/L	ND
tert-AMYL ALCOHOL ug/L	ND
tert-AMYL METHYL ETHER ug/L	ND
ETHYL-tert-BUTYL ETHER ug/L	ND
tert-BUTYL FORMATE ug/L	ND

MW-8	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	0.27
3,3-DIMETHYL-1-BUTANOL ug/L	ND
DISOPROPYL ETHER ug/L	ND
ETHANOL ug/L	ND
T-BUTYL ALCOHOL ug/L	15
tert-AMYL ALCOHOL ug/L	ND
tert-AMYL METHYL ETHER ug/L	ND
ETHYL-tert-BUTYL ETHER ug/L	ND
tert-BUTYL FORMATE ug/L	ND

DMW-3	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
3,3-DIMETHYL-1-BUTANOL ug/L	ND
DISOPROPYL ETHER ug/L	ND
ETHANOL ug/L	ND
T-BUTYL ALCOHOL ug/L	15
tert-AMYL ALCOHOL ug/L	ND
tert-AMYL METHYL ETHER ug/L	ND
ETHYL-tert-BUTYL ETHER ug/L	ND
tert-BUTYL FORMATE ug/L	ND

MW-22D	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
3,3-DIMETHYL-1-BUTANOL ug/L	ND
DISOPROPYL ETHER ug/L	ND
ETHANOL ug/L	ND
T-BUTYL ALCOHOL ug/L	ND
tert-AMYL ALCOHOL ug/L	ND
tert-AMYL METHYL ETHER ug/L	ND
ETHYL-tert-BUTYL ETHER ug/L	ND
tert-BUTYL FORMATE ug/L	ND

MW-27	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
3,3-DIMETHYL-1-BUTANOL ug/L	ND
DISOPROPYL ETHER ug/L	ND
ETHANOL ug/L	ND
T-BUTYL ALCOHOL ug/L	2,200
tert-AMYL ALCOHOL ug/L	ND
tert-AMYL METHYL ETHER ug/L	ND
ETHYL-tert-BUTYL ETHER ug/L	ND
tert-BUTYL FORMATE ug/L	ND

MW-30	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	2.18
3,3-DIMETHYL-1-BUTANOL ug/L	ND
DISOPROPYL ETHER ug/L	100
ETHANOL ug/L	ND
T-BUTYL ALCOHOL ug/L	700
tert-AMYL ALCOHOL ug/L	ND
tert-AMYL METHYL ETHER ug/L	ND
ETHYL-tert-BUTYL ETHER ug/L	ND
tert-BUTYL FORMATE ug/L	ND

MW-18D	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
3,3-DIMETHYL-1-BUTANOL ug/L	ND
DISOPROPYL ETHER ug/L	ND
ETHANOL ug/L	ND
T-BUTYL ALCOHOL ug/L	ND
tert-AMYL ALCOHOL ug/L	ND
tert-AMYL METHYL ETHER ug/L	ND
ETHYL-tert-BUTYL ETHER ug/L	ND
tert-BUTYL FORMATE ug/L	ND

MW-21D	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
3,3-DIMETHYL-1-BUTANOL ug/L	ND
DISOPROPYL ETHER ug/L	ND
ETHANOL ug/L	ND
T-BUTYL ALCOHOL ug/L	ND
tert-AMYL ALCOHOL ug/L	ND
tert-AMYL METHYL ETHER ug/L	ND
ETHYL-tert-BUTYL ETHER ug/L	ND
tert-BUTYL FORMATE ug/L	ND

DMW-1	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
3,3-DIMETHYL-1-BUTANOL ug/L	ND
DISOPROPYL ETHER ug/L	ND
ETHANOL ug/L	ND
T-BUTYL ALCOHOL ug/L	ND
tert-AMYL ALCOHOL ug/L	ND
tert-AMYL METHYL ETHER ug/L	ND
ETHYL-tert-BUTYL ETHER ug/L	ND
tert-BUTYL FORMATE ug/L	ND

MW-19D	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
3,3-DIMETHYL-1-BUTANOL ug/L	ND
DISOPROPYL ETHER ug/L	490
ETHANOL ug/L	ND
T-BUTYL ALCOHOL ug/L	2,300
tert-AMYL ALCOHOL ug/L	ND
tert-AMYL METHYL ETHER ug/L	ND
ETHYL-tert-BUTYL ETHER ug/L	ND
tert-BUTYL FORMATE ug/L	ND

NOTE:
BOLD VALUES INDICATE CHEMICAL CONCENTRATIONS ABOVE THE RBSL OR SUSPECTED TO BE ABOVE RBSL.

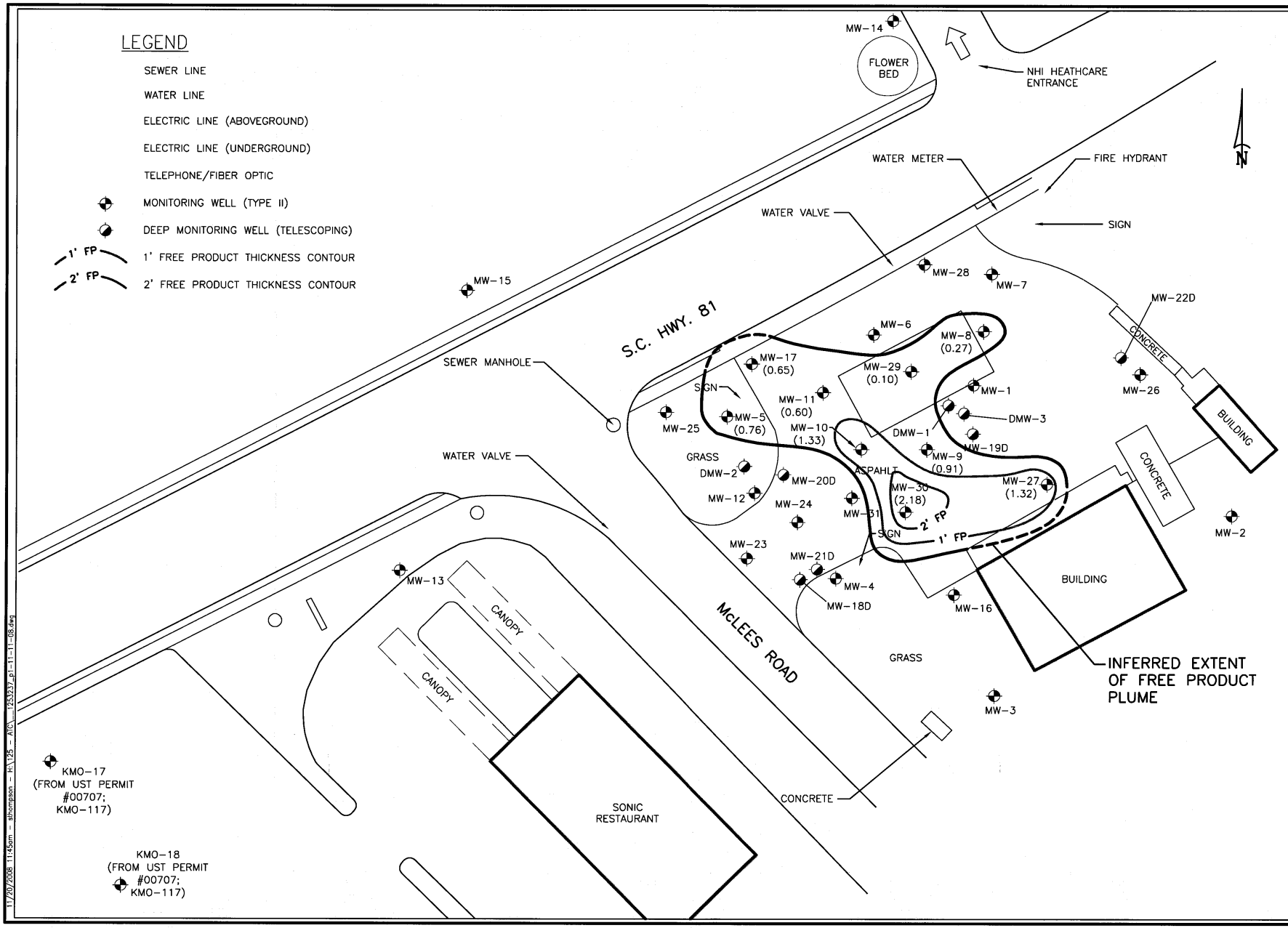
NOTES:
1. BOLD NUMBER INDICATES CHEMICAL CONCENTRATIONS ABOVE THE RBSL OR SUSPECTED TO BE ABOVE RBSL.
2. * = MEASURED IN mg/L
3. FREE PRODUCT THICKNESS MEASURED IN FEET.

ATC ASSOCIATES INC.
Columbia, South Carolina 29203 (803) 735-0003 FAX (803) 735-0443

TITLE **FIGURE 10A** UST PERMIT #12458
GROUNDWATER CONCENTRATIONS MAP - 8 OXYGENATES (OCT. 08)
FORMER PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

CAD FILE	DSCA ID	PREP. BY	REV. BY	SCALE	DATE	PROJECT NO.
1253237.dwg		JW		1" = 30'	11-11-2008	89.25384.0585

11/20/2008 11:42am - sthompson - H:\125 - ATC_1253237_p1-11-11-08.dwg



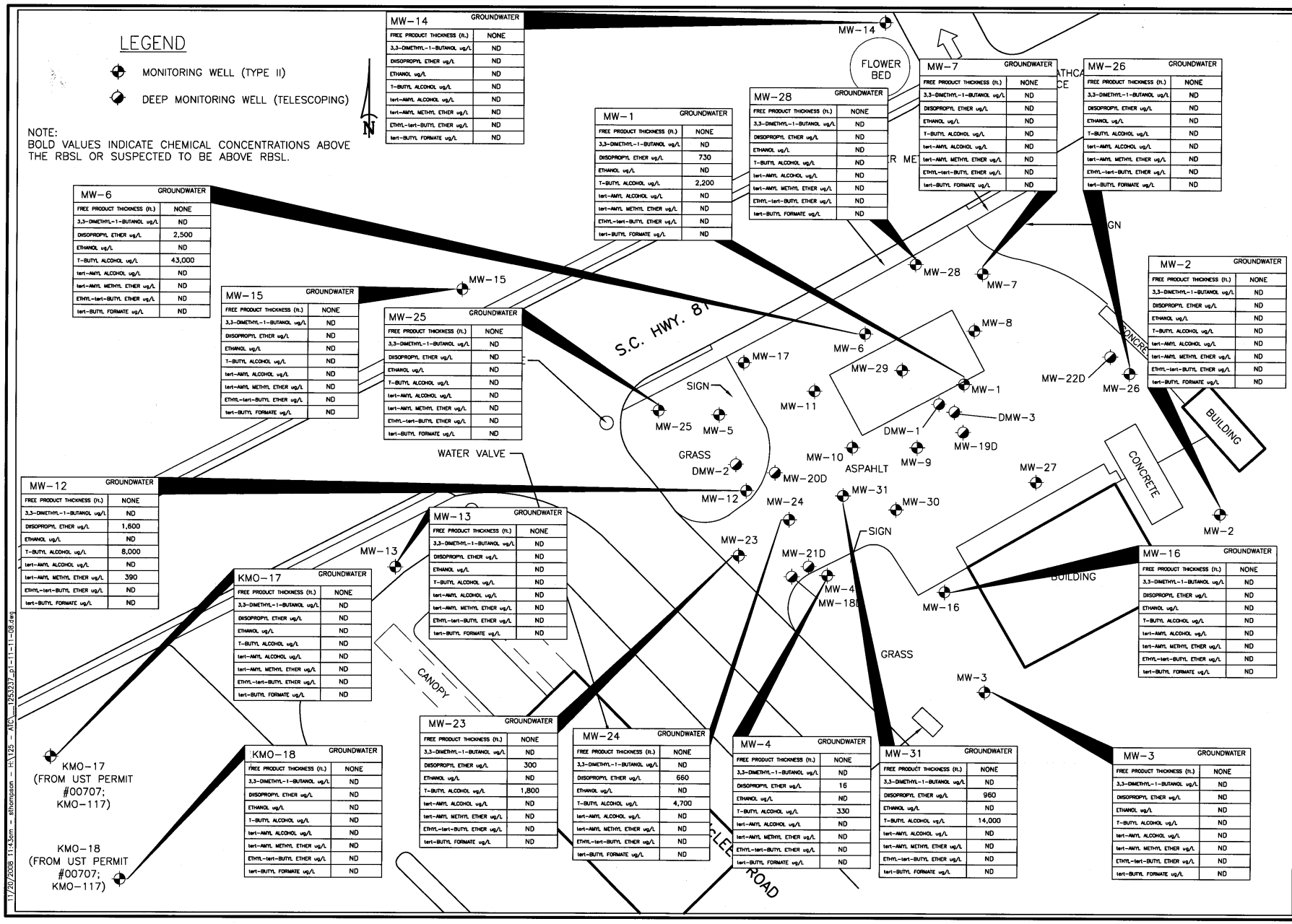
ATC ASSOCIATES INC.
Columbia, South Carolina 29203 (803) 735-0003 FAX (803) 735-0443

TITLE **FIGURE 11** UST PERMIT #12458
INFERED EXTENT OF FREE PRODUCT PLUME (OCT. 08)
FORMER PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

CAD FILE	DSCA ID	PREP. BY	REV. BY	SCALE	DATE	PROJECT NO.
1253237.dwg		JW		1" = 30'	11-11-2008	89.25384.0585

NOTES:
1. FREE PRODUCT THICKNESS MEASURED IN FEET.
2. EXTENT LINE DASHED WHERE UNDEFINED.

11/20/2008 11:45am – sthompson – H:\125 – ATC_ 1253237_p1-11-11-08.dwg



MW-14	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
3,3-DIMETHYL-1-BUTANOL ug/L	ND
DISOPROPYL ETHER ug/L	ND
ETHANOL ug/L	ND
T-BUTYL ALCOHOL ug/L	ND
tert-AMYL ALCOHOL ug/L	ND
tert-AMYL METHYL ETHER ug/L	ND
ETHYL-tert-BUTYL ETHER ug/L	ND
tert-BUTYL FORMATE ug/L	ND

MW-1	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
3,3-DIMETHYL-1-BUTANOL ug/L	ND
DISOPROPYL ETHER ug/L	730
ETHANOL ug/L	ND
T-BUTYL ALCOHOL ug/L	2,200
tert-AMYL ALCOHOL ug/L	ND
tert-AMYL METHYL ETHER ug/L	ND
ETHYL-tert-BUTYL ETHER ug/L	ND
tert-BUTYL FORMATE ug/L	ND

MW-28	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
3,3-DIMETHYL-1-BUTANOL ug/L	ND
DISOPROPYL ETHER ug/L	ND
ETHANOL ug/L	ND
T-BUTYL ALCOHOL ug/L	ND
tert-AMYL ALCOHOL ug/L	ND
tert-AMYL METHYL ETHER ug/L	ND
ETHYL-tert-BUTYL ETHER ug/L	ND
tert-BUTYL FORMATE ug/L	ND

MW-7	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
3,3-DIMETHYL-1-BUTANOL ug/L	ND
DISOPROPYL ETHER ug/L	ND
ETHANOL ug/L	ND
T-BUTYL ALCOHOL ug/L	ND
tert-AMYL ALCOHOL ug/L	ND
tert-AMYL METHYL ETHER ug/L	ND
ETHYL-tert-BUTYL ETHER ug/L	ND
tert-BUTYL FORMATE ug/L	ND

MW-26	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
3,3-DIMETHYL-1-BUTANOL ug/L	ND
DISOPROPYL ETHER ug/L	ND
ETHANOL ug/L	ND
T-BUTYL ALCOHOL ug/L	ND
tert-AMYL ALCOHOL ug/L	ND
tert-AMYL METHYL ETHER ug/L	ND
ETHYL-tert-BUTYL ETHER ug/L	ND
tert-BUTYL FORMATE ug/L	ND

MW-6	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
3,3-DIMETHYL-1-BUTANOL ug/L	ND
DISOPROPYL ETHER ug/L	2,500
ETHANOL ug/L	ND
T-BUTYL ALCOHOL ug/L	43,000
tert-AMYL ALCOHOL ug/L	ND
tert-AMYL METHYL ETHER ug/L	ND
ETHYL-tert-BUTYL ETHER ug/L	ND
tert-BUTYL FORMATE ug/L	ND

MW-15	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
3,3-DIMETHYL-1-BUTANOL ug/L	ND
DISOPROPYL ETHER ug/L	ND
ETHANOL ug/L	ND
T-BUTYL ALCOHOL ug/L	ND
tert-AMYL ALCOHOL ug/L	ND
tert-AMYL METHYL ETHER ug/L	ND
ETHYL-tert-BUTYL ETHER ug/L	ND
tert-BUTYL FORMATE ug/L	ND

MW-25	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
3,3-DIMETHYL-1-BUTANOL ug/L	ND
DISOPROPYL ETHER ug/L	ND
ETHANOL ug/L	ND
T-BUTYL ALCOHOL ug/L	ND
tert-AMYL ALCOHOL ug/L	ND
tert-AMYL METHYL ETHER ug/L	ND
ETHYL-tert-BUTYL ETHER ug/L	ND
tert-BUTYL FORMATE ug/L	ND

MW-2	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
3,3-DIMETHYL-1-BUTANOL ug/L	ND
DISOPROPYL ETHER ug/L	ND
ETHANOL ug/L	ND
T-BUTYL ALCOHOL ug/L	ND
tert-AMYL ALCOHOL ug/L	ND
tert-AMYL METHYL ETHER ug/L	ND
ETHYL-tert-BUTYL ETHER ug/L	ND
tert-BUTYL FORMATE ug/L	ND

MW-12	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
3,3-DIMETHYL-1-BUTANOL ug/L	ND
DISOPROPYL ETHER ug/L	1,600
ETHANOL ug/L	ND
T-BUTYL ALCOHOL ug/L	8,000
tert-AMYL ALCOHOL ug/L	ND
tert-AMYL METHYL ETHER ug/L	390
ETHYL-tert-BUTYL ETHER ug/L	ND
tert-BUTYL FORMATE ug/L	ND

MW-13	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
3,3-DIMETHYL-1-BUTANOL ug/L	ND
DISOPROPYL ETHER ug/L	ND
ETHANOL ug/L	ND
T-BUTYL ALCOHOL ug/L	ND
tert-AMYL ALCOHOL ug/L	ND
tert-AMYL METHYL ETHER ug/L	ND
ETHYL-tert-BUTYL ETHER ug/L	ND
tert-BUTYL FORMATE ug/L	ND

KMO-17	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
3,3-DIMETHYL-1-BUTANOL ug/L	ND
DISOPROPYL ETHER ug/L	ND
ETHANOL ug/L	ND
T-BUTYL ALCOHOL ug/L	ND
tert-AMYL ALCOHOL ug/L	ND
tert-AMYL METHYL ETHER ug/L	ND
ETHYL-tert-BUTYL ETHER ug/L	ND
tert-BUTYL FORMATE ug/L	ND

MW-16	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
3,3-DIMETHYL-1-BUTANOL ug/L	ND
DISOPROPYL ETHER ug/L	ND
ETHANOL ug/L	ND
T-BUTYL ALCOHOL ug/L	ND
tert-AMYL ALCOHOL ug/L	ND
tert-AMYL METHYL ETHER ug/L	ND
ETHYL-tert-BUTYL ETHER ug/L	ND
tert-BUTYL FORMATE ug/L	ND

KMO-18	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
3,3-DIMETHYL-1-BUTANOL ug/L	ND
DISOPROPYL ETHER ug/L	ND
ETHANOL ug/L	ND
T-BUTYL ALCOHOL ug/L	ND
tert-AMYL ALCOHOL ug/L	ND
tert-AMYL METHYL ETHER ug/L	ND
ETHYL-tert-BUTYL ETHER ug/L	ND
tert-BUTYL FORMATE ug/L	ND

MW-23	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
3,3-DIMETHYL-1-BUTANOL ug/L	ND
DISOPROPYL ETHER ug/L	300
ETHANOL ug/L	ND
T-BUTYL ALCOHOL ug/L	1,800
tert-AMYL ALCOHOL ug/L	ND
tert-AMYL METHYL ETHER ug/L	ND
ETHYL-tert-BUTYL ETHER ug/L	ND
tert-BUTYL FORMATE ug/L	ND

MW-24	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
3,3-DIMETHYL-1-BUTANOL ug/L	ND
DISOPROPYL ETHER ug/L	660
ETHANOL ug/L	ND
T-BUTYL ALCOHOL ug/L	4,700
tert-AMYL ALCOHOL ug/L	ND
tert-AMYL METHYL ETHER ug/L	ND
ETHYL-tert-BUTYL ETHER ug/L	ND
tert-BUTYL FORMATE ug/L	ND

MW-4	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
3,3-DIMETHYL-1-BUTANOL ug/L	ND
DISOPROPYL ETHER ug/L	16
ETHANOL ug/L	ND
T-BUTYL ALCOHOL ug/L	330
tert-AMYL ALCOHOL ug/L	ND
tert-AMYL METHYL ETHER ug/L	ND
ETHYL-tert-BUTYL ETHER ug/L	ND
tert-BUTYL FORMATE ug/L	ND

MW-31	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
3,3-DIMETHYL-1-BUTANOL ug/L	ND
DISOPROPYL ETHER ug/L	960
ETHANOL ug/L	ND
T-BUTYL ALCOHOL ug/L	14,000
tert-AMYL ALCOHOL ug/L	ND
tert-AMYL METHYL ETHER ug/L	ND
ETHYL-tert-BUTYL ETHER ug/L	ND
tert-BUTYL FORMATE ug/L	ND

MW-3	GROUNDWATER
FREE PRODUCT THICKNESS (ft.)	NONE
3,3-DIMETHYL-1-BUTANOL ug/L	ND
DISOPROPYL ETHER ug/L	ND
ETHANOL ug/L	ND
T-BUTYL ALCOHOL ug/L	ND
tert-AMYL ALCOHOL ug/L	ND
tert-AMYL METHYL ETHER ug/L	ND
ETHYL-tert-BUTYL ETHER ug/L	ND
tert-BUTYL FORMATE ug/L	ND

NOTES:
1. BOLD NUMBER INDICATES CHEMICAL CONCENTRATIONS ABOVE THE RBSL OR SUSPECTED TO BE ABOVE RBSL.
2. * = MEASURED IN mg/L
3. FREE PRODUCT THICKNESS MEASURED IN FEET.

TITLE **FIGURE 10B** UST PERMIT #12458
GROUNDWATER CONCENTRATIONS MAP - 8 OXYGENATES (OCT. 08)
FORMER PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

CAD FILE 1253237.dwg | DSCA ID | PREP. BY JW | REV. BY | SCALE 1" = 30' | DATE 11-11-2008 | PROJECT NO. 89.25384.0585

ATC ASSOCIATES INC.
Columbia, South Carolina 29203 (803) 735-0003 FAX (803) 735-0443

11/20/2008 11:43am - athompson - H:\125 - AIC_____1253237_p1-11-11-08.dwg

APPENDIX A

SCDHEC Cost Agreement

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

RECEIVED FEB 26 2008

MS RENEE' THOMAS
PANTRY INC
PO BOX 1410
SANFORD NC 27331-1410

FEB 22 2008

Re: Aggressive Fluid and Vapor Recovery and Assessment Directive
81 Food Mart (Former Pantry #585), 1502 East Greenville Street, Anderson, SC
UST Permit #12458; CA # 31728: MWA #UMW-21519
Release reported November 10, 1992
Tier II Assessment Plan and Cost Proposal received February 8, 2008
Anderson County

Dear Ms. Thomas:

The Underground Storage Tank (UST) Program of the South Carolina Department of Health and Environmental Control (SCDHEC) recognizes your commitment to continue work at this site utilizing your own contractor, ATC Associates, Incorporated. The UST Program has reviewed the referenced submittals and placed them on file.

Assessment activities at the site should begin immediately upon receipt of this letter. The UST Program has approved an Aggressive Fluid and Vapor Recovery (AFVR) event to remove free phase product from monitoring well MW-1 and a second event to remove product from monitoring well MW-5. While the AFVR event is being conducted, characterization across McLees and Greenville Streets and the extent of free phase product should be completed using field-screening points. Based on the field screening results and groundwater laboratory analysis, monitoring wells should be installed in appropriate locations to monitor the migration of CoC. Monitoring well approval has been provided to your site rehabilitation contractor to install three temporary wells, up to five shallow monitoring wells (one shallow in the vicinity of SB-4, a second in the vicinity of SB-12 and a second in the vicinity of SB-14 to define product), four pit cased wells into the sand layer at approximately 40 feet below the land surface, and one deep well. A copy of the monitoring well approval is enclosed for your records. Please have ATC Associates, Incorporated contact the Program prior to well installation for concurrence regarding the final well locations. The soil sample with the highest screening value above the water table for the newly installed wells should be sent to a certified laboratory for analysis for BTEX and naphthalene. A soil sample should be collected from the screen interval of the new well in the vicinity of SB-14, the intermediate well south of MW-4, and conduct a sieve analyses to determine the percent of sand, silt and clay. Slug tests should be conducted on each of these wells plus the new deep well in the vicinity of DMW-1. Approximately 30 days after the completion of the last AFVR event, a groundwater sample should be collected from all monitoring wells. Existing monitoring wells with screens that bracket the water table do not need to be purged before sampling. If a monitoring well contains free phase product, a groundwater sample should be collected below the product. Groundwater samples from all monitoring wells associated with the release should be collected and analyzed for BTEX, naphthalene, MtBE, EDB, 1,2 DCA, 8 oxygenates, lead, nitrates, sulfates, and ferrous iron in accordance with *Analytical Methodology for Groundwater and Soil Assessments* dated August 24, 2005. A copy of this publication is available on line at http://www.scdhec.gov/eqc/admin/html/..%5C..%5Cust%5Cpubs%5Canalmet.pdf.

Cost agreement number 31728 has been approved for the amount shown on the enclosed cost agreement form for the aforementioned scope of work. An Assessment/AFVR Report, due 100 days from the date of this letter, should include the following:

- A narrative portion documenting each AFVR event noting site conditions, the name of the AFVR contractor, field personnel, date, time each AFVR event started and ended, ambient air temperature, general weather conditions during the AFVR event, and the estimated amount in gallons of the petroleum products removed as a liquid or vapor for the event. AFVR data reported must include product recovery rate, volatile air emission concentration, vacuum radius of influence measurements taken at every 30-minute intervals during the event and gauging data from adjacent monitoring wells. Wells containing free phase product should be gauged at the beginning and end of each AFVR event. Disposal manifests for the AFVR event should be included as part of the final report.
- Boring logs and SCDHEC Form 1903 signed by a well driller licensed in the state of South Carolina for all new wells.
- Geological cross sections for the area covered by monitoring wells.
- A narrative portion documenting current site conditions during the groundwater sampling event noting the names of field personnel, date, time, ambient air temperature, and general weather conditions during the sampling event and dissolved oxygen levels for a wells that do not contain free phase product. The report shall also contain well purging data, pH, specific conductivity, water temperature, PID readings (where applicable) and turbidity comments.
- Groundwater elevations, depth to groundwater, measurable free product thickness (where applicable), total well depth and screened interval for all monitoring wells associated with the site, unless otherwise directed by the Program, shall be presented in tabular form. Groundwater laboratory analytical data for this sampling event shall be presented in tabular format.
- A groundwater elevation contour map of the site based on current groundwater potentiometric data.
- A CoC map based on current groundwater laboratory analytical data. The groundwater data should be adjacent to the relevant monitoring well location.
- Manifests for any contaminated soil and/or groundwater removed from the site for treatment and/or disposal.

ATC Associates, Incorporated can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. An interim well drilling invoice for monitoring well installation and the AFVR event may be submitted. Please note that all applicable South Carolina certification requirements apply to the laboratory services, well installation, and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor. 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. Please be advised if the time frame exceeds 45 days between the date when the groundwater samples are collected and the date the report of findings is received, the analytical data will not be considered current and ATC Associates, Incorporated will not be reimbursed for a personnel mobilization to collect the groundwater samples, sample collection costs, laboratory analyses, or associated disposal costs. Please be advised that if the plume is not defined, the SUPERB Account will not reimburse ATC Associates for future equipment mobilizations to define the plume.

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 the Program is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be preapproved by the Program for the cost to be paid. 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. Further, SCDHEC 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.

The Department 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 COC concentrations, based on laboratory analysis, are below Risk Based Screening Levels (RBSLs), 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 or inquiries regarding this project please reference UST permit number 12458. Should you have any questions regarding this correspondence, please feel free to contact me at (803) 896-6669. I can also be reached by email at shradeaa@dhec.sc.gov. or by fax at (803) 896-6245.

Sincerely,

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

Enc: Approved Cost Agreement
Monitoring Well Approval
Proposed Wells Site Map

cc: ATC Associates, Inc., 400 Northeast Drive, Suite Q, Columbia, SC 29203 (with enc.)
Mr. Bridges, GrandSouth Bank, PO Box 1848, Anderson, SC 29622 (without enc.)
Technical file (with enc.)

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

Monitoring Well Installation Approval Form

Approval is hereby granted to: ATC Associates, Incorporated
(on behalf of): The Pantry
Facility: 81 Food Mart (Former Pantry #585), 1502 East Greenville Street, Anderson, SC
UST Permit Number: 12458
County: Anderson

This approval is for the installation of five temporary, five shallow, and five pit cased 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 Department shall be completed and submitted to the Department within 30 days after well completion or abandonment unless another schedule has been approved by the Department. 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 Department within 30 days of receipt of laboratory results unless another schedule has been approved by the Department as required by R.61-71.H.1.d.
5. If any of the information provided to the Department changes, notification to Arthur Shrader (tel: (803) 896-6669 or e-mail: shradeaa@dhec.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. Departmental 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 April 26, 2002. A copy of this approval should be on the site during well installation.

Date of Issuance: **February 11, 2008** **Approval #:** **UMW-21519**

Arthur Shrader, Hydrogeologist
Assessment Section
Division of Assessment and Corrective Action
Bureau of Land and Waste Management

APPENDIX B

EFR Reports

NUWAY ENVIRONMENTAL SERVICES, LLC

Corporate Office
1741 Calks Ferry Road
Lexington, SC 29073
(803) 957-9175 - Tel
(803) 892-1225 – Fax

Mauldin Branch
305 South Main Street
Mauldin, SC 29662
(864) 967-3500 - Tel
(864) 967-3505 – Fax

June 26, 2008

Mr. Bob Bolton
ATC and Associates
400 Northeast Drive, Suite Q
Columbia, SC 29203

RE: Enhanced Fluid Recovery (EFR)
Pantry #585
1502 East Greenville Street
Anderson, SC
J2008-362

Dear Mr. Bolton:

On June 26, 2008 NuWay Environmental Services LLC (NuWay) performed an Enhanced Fluid Recovery (EFR) event at the above referenced location. The EFR was performed for 8 hours on monitoring wells MW-1, MW-8, and MW-6 with off-gas treatment. The wells were gauged before and after the event. Readings were taken every 30 minutes beginning at 9:00am and ending at 5:00pm.

Prior to the event and upon completion of the event the product and water levels were checked in the wells. Approximately 1427 gallons of liquids were removed during the event.

Enclosed is the field data sheet along with the calculation spreadsheet for the event. A copy of the disposal manifest is also enclosed.

NuWay appreciates the opportunity to assist you with this project. If you have any questions or need further information please contact me at 803-957-9175.

Sincerely,
NuWay Environmental Services, LLC
Bill Aikins
Project Manager

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number:
2. Page 1 of 1
3. Emergency Response Phone: 803-957-9175
4. Waste Tracking Number: 22664

5. Generator's Name and Mailing Address
Pantry #585
1502 East Greenville Street
Anderson, SC

Generator's Site Address (if different than mailing address)
ATC Columbia

Generator's Phone:

6. Transporter 1 Company Name
NuWay Environmental Services, LLC (fka) NuWay Industrial Service
U.S. EPA ID Number: SCD987598331

7. Transporter 2 Company Name
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NuWay Environmental Service, LLC
1741 Calks Ferry Road
Lexington, SC 29073
U.S. EPA ID Number: SCR000762468

Facility's Phone: 803-957-9175

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	NON-HAZARDOUS NON-REGULATED MATERIAL Oily water	001	TT	1,427	G.
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
In Case of Emergency Call: 803-957-9175
NIS Job #2008-362

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Generator's/Offeror's Printed/Typed Name: JAKE WHITTLE (AS PANTRY AGENT)
Signature:
Month Day Year

15. International Shipments ☐ Import to U.S. ☐ Export from U.S.
Port of entry/exit:
Transporter Signature (for exports only):
Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Chris Driver
Signature:
Month Day Year: 06 26 08

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: James Lovette
Signature:
Month Day Year: 6 26 08

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

Client: ATC Columbia Facility Name: Pantry #585 Technician: Chris Driver

Facility Address: 1502 East Greenville St, Anderson , SC Date: 26 Jun 08

Extraction Well Head Vacuum (in.Hg)

TIME:	IN LT	MW-1	MW-8	MW-6	MW-	HUM	PPM	FLOW	TEMP
9:00am	4	21	18	12		78.9	298	400	96.1
9:30am	4	21	18	12		91.9	593	900	112.2
10:00am	4	21	18	12		96.0	534	1000	116.5
10:30am	4	21	18	12		94.4	617	1000	121.4
11:00am	4	21	18	12		97.4	600	1000	126.6
11:30am	4	21	18	12		95.6	508	1000	131.0
12:00pm	4	21	18	12		94.5	684	1000	130.4
12:30pm	4	21	18	12		97.0	521	1000	135.5
1:00pm	4	21	18	12		98.4	501	1000	140.9
1:30pm	4	21	18	12		99.2	425	1000	138.6
2:00pm	4	21	18	12		94.0	730	1000	136.2
2:30pm	4	21	18	12		90.1	711	1000	134.9
3:00pm	4	21	18	12		91.5	754	1000	136.6
3:30pm	4	21	18	12		93.6	626	1000	134.8
4:00pm	4	21	18	12		93.9	690	1000	134.0
4:30pm	4	21	18	12		94.1	671	1000	132.6
5:00pm	4	21	18	12		92.4	675	1000	133.4

Well Gauging Data:			Before EFR Event			After EFR Event			
Well No.	Diam.	TD (ft)	DTP (ft)	DTW (ft)	SPH (ft)	DTP (ft)	DTW (ft)	SPH (ft)	Corr. DTW Change (ft)
MW-1			12.27	12.44		0	12.75		
MW-8			10.43	10.76		0	10.90		
MW-6			12.81	13.14		13.35	13.37		

Comments: 8 hour EFR with Carbon unit

Total of 1427 gallons of liquids generated this event

Weather – Partly cloudy, hot & humid – 96 degrees

DIFFERENTIAL PRESSURE DATA

Well No.	MW-9	MW-10	MW-11	MW-	MW-	MW-
Nearest Ex. Well:	MW-	MW-	MW-	MW-	MW-	MW-
Approx. Distance:						
Time (hh:mm)	Differential Pressure Readings (inches of water):					
9:00am	11.60	11.58	12.57			
10:00am	12.01	11.95	12.57			
11:00am	12.15	12.12	12.79			
12:00pm	12.21	12.18	12.80			
1:00pm	11.95	11.91	12.48			
2:00pm	11.94	11.90	12.44			
3:00pm	11.89	11.86	12.38			
4:00pm	11.85	11.80	12.31			
5:00pm	11.84	11.78	12.26			

Vacuum Truck Information	Recovery/ Disposal Information	
Subcontractor:	Hydrocarbons Removed (vapor):	pounds
Truck Operator:	Hydrocarbons Removed (liq):	gallons
Truck No:	Total Hydrocarbons Removed:	equiv.gal.
Vacuum Pumps:	Molecular Weight Utilized:	g/mole
Pump Type:	Total Liquids Removed:	gallons
Tank Capacity(gal.):	Disposal Facility:	
Stack I.D. (inches):	Manifest Number:	
Pumps:	**Offgas Treatment Information**	
RPM:	Atmospheric Exhaust:	pounds
Job Time:	Destruction Efficiency: %	percent
Comments:		

NIS FIELD DATA SHEET

Client: ATC Columbia	Site: Pantry #585, 1502 East Greenville Street, Anderson, SC	Date: 26 Jun 08	Event #

Extraction Well(s)	Time hh:mm	Extraction Well-head Vacuum (in Hg)																Vacuum Truck Exhaust			
		Inlet	MW-1	MW-8	MW-6	0	0	0	0	0	0	0	0	0	0	0		Concent-ration PPM	Flow Rate CFM	Removal Rate LBS/HR	Interval Removal LBS
Technician: Chris Driver		Vacuum Truck # 117																Tank Capacity: 2,600		Stack Diameter: 4"	
	9:00am	4	21	18	12	0	0	0	0	0	0	0	0	0	0	0		298	348	2.1	1.1
	9:30am	4	21	18	12	0	0	0	0	0	0	0	0	0	0	0	>	593	783	9.5	4.7
	10:00am	4	21	18	12	0	0	0	0	0	0	0	0	0	0	0	>	534	870	9.5	4.7
	10:30am	4	21	18	12	0	0	0	0	0	0	0	0	0	0	0	>	617	870	11.0	11.0
	11:00am	4	21	18	12	0	0	0	0	0	0	0	0	0	0	0	>	600	870	10.7	10.7
	11:30am	4	21	18	12	0	0	0	0	0	0	0	0	0	0	0	>	508	870	9.0	9.0
	12:00pm	4	21	18	12	0	0	0	0	0	0	0	0	0	0	0	>	684	870	12.2	6.1
	12:30pm	4	21	18	12	0	0	0	0	0	0	0	0	0	0	0	>	521	870	9.3	4.6
	1:00pm	4	21	18	12	0	0	0	0	0	0	0	0	0	0	0	>	501	870	8.9	4.5
	1:30pm	4	21	18	12	0	0	0	0	0	0	0	0	0	0	0	>	425	870	7.6	3.8
	2:00pm	4	21	18	12	0	0	0	0	0	0	0	0	0	0	0	>	730	870	13.0	6.5
	2:30pm	4	21	18	12	0	0	0	0	0	0	0	0	0	0	0	>	711	870	12.6	6.3
	3:00pm	4	21	18	12	0	0	0	0	0	0	0	0	0	0	0	>	754	870	13.4	6.7
	3:30pm	4	21	18	12	0	0	0	0	0	0	0	0	0	0	0	>	626	870	11.1	5.6
	4:00pm	4	21	18	12	0	0	0	0	0	0	0	0	0	0	0	>	690	870	12.3	6.1
	4:30pm	4	21	18	12	0	0	0	0	0	0	0	0	0	0	0	>	671	870	11.9	6.0
	5:00pm	4	21	18	12	0	0	0	0	0	0	0	0	0	0	0	>	675	870	12.0	6.0

Extraction Well	Stinger Depth	Breather Port
MW-1		
MW-8		
MW-6		

Hydrocarbons Removed (vapor):	103	Pounds
Hydrocarbons Removed (liquids):		Gallons
Total Hydrocarbons Removed:	13	Equiv. Gal
Molecular Weight Utilized:	130	g/mole
Disposal Facility: Onsite*		
Total Liquids Removed:	1,427	Gallons

Comments: 8 hr EFR with off-gas treatment

Total of 1427 gallons of liquids generated this event.

Weather - Partly cloudy, hot, humid - 96 degrees

NUWAY ENVIRONMENTAL SERVICES, LLC

Corporate Office
1741 Calks Ferry Road
Lexington, SC 29073
(803) 957-9175 - Tel
(803) 892-1225 – Fax

Mauldin Branch
305 South Main Street
Mauldin, SC 29662
(864) 967-3500 - Tel
(864) 967- 3505 – Fax

June 27, 2008

Mr. Bob Bolton
ATC and Associates
400 Northeast Drive, Suite Q
Columbia, SC 29203

RE: Enhanced Fluid Recovery (EFR)
Pantry #585
1502 East Greenville Street
Anderson, SC
J2008-362

Dear Mr. Bolton:

On June 27, 2008 NuWay Environmental Services LLC (NuWay) performed an Enhanced Fluid Recovery (EFR) event at the above referenced location. The EFR was performed for 8 hours on monitoring wells MW-9, MW-10, and MW-11 with off-gas treatment. The wells were gauged before and after the event. Readings were taken every 30 minutes beginning at 5:00am and ending at 1:00pm.

Prior to the event and upon completion of the event the product and water levels were checked in the wells. Approximately 1372 gallons of liquids were removed during the event.

Enclosed is the field data sheet along with the calculation spreadsheet for the event. A copy of the disposal manifest is also enclosed.

NuWay appreciates the opportunity to assist you with this project. If you have any questions or need further information please contact me at 803-957-9175.

Sincerely,
NuWay Environmental Services, LLC
Bill Aikins
Project Manager

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of 1

3. Emergency Response Phone: 803-957-9175

4. Waste Tracking Number: 20665

5. Generator's Name and Mailing Address
Pantry #585
1502 East Greenville Street
Anderson, SC

Generator's Site Address (if different than mailing address): ATC Columbia

Generator's Phone:

6. Transporter 1 Company Name: NuWay Environmental Services, LLC (fka) NuWay Industrial Service

U.S. EPA ID Number: SCD987598331

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
NuWay Environmental Service, LLC
1741 Calks Ferry Road
Lexington, SC 29073

U.S. EPA ID Number: SCR000762468

Facility's Phone: 803-957-9175

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-HAZARDOUS NON-REGULATED MATERIAL Oily water	001	TT	1,372	G.	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

In Case of Emergency Call: 803-957-9175 NIS Job #2008-362

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: JAKE WHITTLE (AS PANTRY AGENT) Signature: Month 06 Day 27 Year 08

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Chris DRiver Signature: Month 06 Day 27 Year 08

Transporter 2 Printed/Typed Name Signature Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: James Zobette Signature: Month 6 Day 27 Year 08

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

169-BLC-O 6 10498 (Rev. 8/06) DESIGNATED FACILITY TO GENERATOR

Client: ATC Columbia Facility Name: Pantry #585 Technician: Chris Driver

Facility Address: 1502 East Greenville St, Anderson , SC Date: 27 Jun 08

Extraction Well Head Vacuum (in.Hg)

TIME:	IN LT	MW-9	MW-10	MW-11		HUM	PPM	FLOW	TEMP
5:00am	4	20	22	16		91.6	822	1100	79.9
5:30am	4	20	22	16		87.9	730	1200	83.5
6:00am	4	20	22	16		89.0	764	1200	88.7
6:30am	4	20	22	16		87.0	686	1200	96.7
7:00am	4	20	22	16		84.5	620	1200	101.4
7:30am	4	20	22	16		80.0	636	1200	109.7
8:00am	4	20	22	16		79.4	648	1200	110.0
8:30am	4	20	22	16		80.6	651	1200	107.0
9:00am	4	20	22	16		79.0	710	1200	111.4
9:30am	4	20	22	16		77.6	724	1200	116.0
10:00am	4	20	22	16		78.4	683	1200	120.0
10:30am	4	20	22	16		79.0	527	1200	122.7
11:00am	4	20	22	16		82.3	518	1200	125.0
11:30am	4	20	22	16		81.6	530	1200	125.8
12:00pm	4	20	22	16		85.0	612	1200	130.9
12:30pm	4	20	22	16		84.3	538	1200	132.6
1:00pm	4	20	22	16		84.7	542	1200	134.1

Well Gauging Data:			Before EFR Event			After EFR Event			
Well No.	Diam.	TD (ft)	DTP (ft)	DTW (ft)	SPH (ft)	DTP (ft)	DTW (ft)	SPH (ft)	Corr. DTW Change (ft)
MW-9			11.67	12.48		0	12.82		
MW-10			11.58	13.06		0	13.20		
MW-11			12.19	12.77		0	13.19		

Comments: 8 hour EFR with Carbon unit

Total of 1372 gallons of liquids generated this event

NIS FIELD DATA SHEET

Client: ATC Columbia	Site: Pantry #585, 1502 East Greenville St., Anderson, SC	Date: 27 Jun 08	Event #

Extraction Well(s)	Time hh:mm	Extraction Well-head Vacuum (in Hg)																Vacuum Truck Exhaust			
		Inlet	MW-9	MW-10	MW-11	0	0	0	0	0	0	0	0	0	0	0		Concent-ration PPM	Flow Rate CFM	Removal Rate LBS/HR	Interval Removal LBS
Technician: Chris Driver		Vacuum Truck # 117																Tank Capacity: 2,600		Stack Diameter: 4"	
	5:00am	4	20	22	16	0	0	0	0	0	0	0	0	0	0	0		822	957	16.1	8.0
	5:30am	4	20	22	16	0	0	0	0	0	0	0	0	0	0	0	>	703	1044	15.0	7.5
	6:00am	4	20	22	16	0	0	0	0	0	0	0	0	0	0	0	>	764	1044	16.3	8.1
	6:30am	4	20	22	16	0	0	0	0	0	0	0	0	0	0	0	>	686	1044	14.6	14.6
	7:00am	4	20	22	16	0	0	0	0	0	0	0	0	0	0	0	>	620	1044	13.2	13.2
	7:30am	4	20	22	16	0	0	0	0	0	0	0	0	0	0	0	>	636	1044	13.6	13.6
	8:00am	4	20	22	16	0	0	0	0	0	0	0	0	0	0	0	>	648	1044	13.8	6.9
	8:30am	4	20	22	16	0	0	0	0	0	0	0	0	0	0	0	>	651	1044	13.9	6.9
	9:00am	4	20	22	16	0	0	0	0	0	0	0	0	0	0	0	>	710	1044	15.1	7.6
	9:30am	4	20	22	16	0	0	0	0	0	0	0	0	0	0	0	>	724	1044	15.4	7.7
	10:00am	4	20	22	16	0	0	0	0	0	0	0	0	0	0	0	>	683	1044	14.6	7.3
	10:30am	4	20	22	16	0	0	0	0	0	0	0	0	0	0	0	>	527	1044	11.2	5.6
	11:00am	4	20	22	16	0	0	0	0	0	0	0	0	0	0	0	>	518	1044	11.0	5.5
	11:30am	4	20	22	16	0	0	0	0	0	0	0	0	0	0	0	>	530	1044	11.3	5.6
	12:00pm	4	20	22	16	0	0	0	0	0	0	0	0	0	0	0	>	612	1044	13.0	6.5
	12:30pm	4	20	22	16	0	0	0	0	0	0	0	0	0	0	0	>	538	1044	11.5	5.7
	1:00pm	4	20	22	16	0	0	0	0	0	0	0	0	0	0	0	>	542	1044	11.6	5.8

Extraction Well	Stinger Depth	Breather Port
MW-9		
MW-10		
MW-11		

Hydrocarbons Removed (vapor):	136	Pounds
Hydrocarbons Removed (liquids):		Gallons
Total Hydrocarbons Removed:	18	Equiv. Gal
Molecular Weight Utilized:	130	g/mole
Disposal Facility: Onsite*		
Total Liquids Removed:	1,372	Gallons

Comments: 8 hr EFR with off-gas treatment

Total of 1372 gallons of liquids generated this event.

APPENDIX C

DPT Groundwater Screening Analytical Data

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Case Narrative for:

ATC ASSOCIATES, INC.

Certificate of Analysis Number:

08090122

Report To:		Project Name:	89-25384-0585	
ATC ASSOCIATES, INC.		Site:	PANTRY 585	
JAKE WHITTLE		Site Address:		
3417-A TRADE PARK CT.			ANDERSON	SC
		PO Number:		
CHARLOTTE		State:	South Carolina	
NC		State Cert. No.:	73004001	
28217-		Date Reported:	9/16/2008	
ph: (704) 529-3200	fax:			

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data for those samples spiked by the laboratory and may be applicable to other samples of similar matrix from the site. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process. If insufficient sample is supplied for MS/MSD, a Laboratory Control Sample (LCS) and a Laboratory Control Sample Duplicate (LCSD) are reported with the analytical batch and serve as the batch quality control (QC).

Results are reported on a Wet Weight Basis unless otherwise noted in the sample unit field as -dry.

The collection of samples using encores, terracores or other field collection devices may result in inconsistent initial sample weights for the parent sample and MS/MSD samples.

The MS/MSD recovery and precision data are calculated based on detected spike concentrations that are adjusted for initial sample weights. As a result of the variability between initial sample weights, the calculated RPD may have increased bias.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

TOTAL NUMBER OF PAGES IN THIS REPORT: _____ PAGES

9/16/2008

Amy K. Jackson
Project Manager

Date

Test results meet all requirements of NELAC, unless specified in the narrative.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

ATC ASSOCIATES, INC.

Certificate of Analysis Number:

08090122

Report To: ATC ASSOCIATES, INC.
JAKE WHITTLE
3417-A TRADE PARK CT.

CHARLOTTE
NC
28217-
ph: (704) 529-3200 fax: (704) 529-3272

Fax To:

Project Name: 89-25384-0585
Site: PANTRY 585
Site Address:
ANDERSON SC
PO Number:
State: South Carolina
State Cert. No.: 73004001
Date Reported: 9/16/2008

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
GP-1	08090122-01	Water	9/4/2008 1:00:00 PM	9/6/2008 9:18:00 AM	269247	☐
GP-2	08090122-02	Water	9/4/2008 1:15:00 PM	9/6/2008 9:18:00 AM	269247	☐
GP-3	08090122-03	Water	9/4/2008 1:30:00 PM	9/6/2008 9:18:00 AM	269247	☐
GP-4	08090122-04	Water	9/4/2008 3:00:00 PM	9/6/2008 9:18:00 AM	269247	☐
GP-5	08090122-05	Water	9/4/2008 2:00:00 PM	9/6/2008 9:18:00 AM	269247	☐
GP-7	08090122-06	Water	9/4/2008 1:40:00 PM	9/6/2008 9:18:00 AM	269247	☐
GP-8	08090122-07	Water	9/4/2008 3:30:00 PM	9/6/2008 9:18:00 AM	269247	☐

9/16/2008

Amy K. Jackson
Project Manager

Date

Ron Benjamin
Laboratory Director

Tristan Davis
Quality Assurance Officer

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: GP-1 **Collected:** 09/04/2008 13:00 **SPL Sample ID:** 08090122-01

Site: **PANTRY 585**

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	15		1	1	09/09/08 1:00	RPJ	2783987
Ethylbenzene	7		1	1	09/09/08 1:00	RPJ	2783987
Methyl tert-butyl ether	28		5	1	09/09/08 1:00	RPJ	2783987
Naphthalene	ND		5	1	09/09/08 1:00	RPJ	2783987
Toluene	4.5		1	1	09/09/08 1:00	RPJ	2783987
m,p-Xylene	18		2	1	09/09/08 1:00	RPJ	2783987
o-Xylene	1.1		1	1	09/09/08 1:00	RPJ	2783987
Xylenes,Total	19.1		1	1	09/09/08 1:00	RPJ	2783987
Surr: 1,2-Dichloroethane-d4	102	%	74-133	1	09/09/08 1:00	RPJ	2783987
Surr: 4-Bromofluorobenzene	98.5	%	74-116	1	09/09/08 1:00	RPJ	2783987
Surr: Toluene-d8	102	%	84-112	1	09/09/08 1:00	RPJ	2783987

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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Client Sample ID: GP-2 **Collected:** 09/04/2008 13:15 **SPL Sample ID:** 08090122-02

Site: PANTRY 585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	17000		50	50	09/09/08 1:27	RPJ	2783988
Ethylbenzene	2600		50	50	09/09/08 1:27	RPJ	2783988
Methyl tert-butyl ether	ND		250	50	09/09/08 1:27	RPJ	2783988
Naphthalene	940		250	50	09/09/08 1:27	RPJ	2783988
Toluene	29000		100	100	09/12/08 4:55	HJL	2787364
m,p-Xylene	9500		100	50	09/09/08 1:27	RPJ	2783988
o-Xylene	4300		50	50	09/09/08 1:27	RPJ	2783988
Xylenes,Total	13800		50	50	09/09/08 1:27	RPJ	2783988
Surr: 1,2-Dichloroethane-d4	95.3	%	74-133	100	09/12/08 4:55	HJL	2787364
Surr: 1,2-Dichloroethane-d4	103	%	74-133	50	09/09/08 1:27	RPJ	2783988
Surr: 4-Bromofluorobenzene	99.5	%	74-116	100	09/12/08 4:55	HJL	2787364
Surr: 4-Bromofluorobenzene	100	%	74-116	50	09/09/08 1:27	RPJ	2783988
Surr: Toluene-d8	104	%	84-112	100	09/12/08 4:55	HJL	2787364
Surr: Toluene-d8	101	%	84-112	50	09/09/08 1:27	RPJ	2783988

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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Client Sample ID: GP-3 **Collected:** 09/04/2008 13:30 **SPL Sample ID:** 08090122-03

Site: PANTRY 585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	420		1	1	09/09/08 1:55	RPJ	2783989
Ethylbenzene	1500		100	100	09/10/08 9:55	DN	2785193
Methyl tert-butyl ether	ND		5	1	09/09/08 1:55	RPJ	2783989
Naphthalene	360		5	1	09/09/08 1:55	RPJ	2783989
Toluene	4500		100	100	09/10/08 9:55	DN	2785193
m,p-Xylene	5100		200	100	09/10/08 9:55	DN	2785193
o-Xylene	2100		100	100	09/10/08 9:55	DN	2785193
Xylenes,Total	7200		100	100	09/10/08 9:55	DN	2785193
Surr: 1,2-Dichloroethane-d4	94.8	%	74-133	100	09/10/08 9:55	DN	2785193
Surr: 1,2-Dichloroethane-d4	107	%	74-133	1	09/09/08 1:55	RPJ	2783989
Surr: 4-Bromofluorobenzene	100	%	74-116	100	09/10/08 9:55	DN	2785193
Surr: 4-Bromofluorobenzene	97.9	%	74-116	1	09/09/08 1:55	RPJ	2783989
Surr: Toluene-d8	102	%	84-112	100	09/10/08 9:55	DN	2785193
Surr: Toluene-d8	99.3	%	84-112	1	09/09/08 1:55	RPJ	2783989

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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Client Sample ID: GP-4 **Collected:** 09/04/2008 15:00 **SPL Sample ID:** 08090122-04

Site: PANTRY 585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	5.9		1	1	09/10/08 10:24	DN	2785194
Ethylbenzene	3.9		1	1	09/10/08 10:24	DN	2785194
Methyl tert-butyl ether	ND		5	1	09/10/08 10:24	DN	2785194
Naphthalene	ND		5	1	09/10/08 10:24	DN	2785194
Toluene	ND		1	1	09/10/08 10:24	DN	2785194
m,p-Xylene	8.1		2	1	09/10/08 10:24	DN	2785194
o-Xylene	ND		1	1	09/10/08 10:24	DN	2785194
Xylenes,Total	8.1		1	1	09/10/08 10:24	DN	2785194
Surr: 1,2-Dichloroethane-d4	95.9	%	74-133	1	09/10/08 10:24	DN	2785194
Surr: 4-Bromofluorobenzene	99.8	%	74-116	1	09/10/08 10:24	DN	2785194
Surr: Toluene-d8	101	%	84-112	1	09/10/08 10:24	DN	2785194

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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Client Sample ID: GP-5 **Collected:** 09/04/2008 14:00 **SPL Sample ID:** 08090122-05

Site: PANTRY 585

Analyses/Method	Result	QUAL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN				**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	32000			100	100	09/12/08 5:23	HJL	2789905
Ethylbenzene	4200			100	100	09/12/08 5:23	HJL	2789905
Methyl tert-butyl ether	7200			500	100	09/12/08 5:23	HJL	2789905
Naphthalene	960			500	100	09/12/08 5:23	HJL	2789905
Toluene	37000			100	100	09/12/08 5:23	HJL	2789905
m,p-Xylene	14000			200	100	09/12/08 5:23	HJL	2789905
o-Xylene	6300			100	100	09/12/08 5:23	HJL	2789905
Xylenes,Total	20300			100	100	09/12/08 5:23	HJL	2789905
Surr: 1,2-Dichloroethane-d4	94.4		%	74-133	100	09/12/08 5:23	HJL	2789905
Surr: 4-Bromofluorobenzene	97.6		%	74-116	100	09/12/08 5:23	HJL	2789905
Surr: Toluene-d8	104		%	84-112	100	09/12/08 5:23	HJL	2789905

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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Client Sample ID: GP-7 **Collected:** 09/04/2008 13:40 **SPL Sample ID:** 08090122-06

Site: **PANTRY 585**

Analyses/Method	Result	QUAL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN				**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	7800			20	20	09/09/08 6:32	RPJ	2783783
Ethylbenzene	2800			20	20	09/09/08 6:32	RPJ	2783783
Methyl tert-butyl ether	820			100	20	09/09/08 6:32	RPJ	2783783
Naphthalene	870			100	20	09/09/08 6:32	RPJ	2783783
Toluene	22000			100	100	09/12/08 5:51	HJL	2789906
m,p-Xylene	10000			40	20	09/09/08 6:32	RPJ	2783783
o-Xylene	4400			20	20	09/09/08 6:32	RPJ	2783783
Xylenes,Total	14400			20	20	09/09/08 6:32	RPJ	2783783
Surr: 1,2-Dichloroethane-d4	95.1		%	74-133	100	09/12/08 5:51	HJL	2789906
Surr: 1,2-Dichloroethane-d4	102		%	74-133	20	09/09/08 6:32	RPJ	2783783
Surr: 4-Bromofluorobenzene	98.4		%	74-116	100	09/12/08 5:51	HJL	2789906
Surr: 4-Bromofluorobenzene	101		%	74-116	20	09/09/08 6:32	RPJ	2783783
Surr: Toluene-d8	103		%	84-112	100	09/12/08 5:51	HJL	2789906
Surr: Toluene-d8	99.1		%	84-112	20	09/09/08 6:32	RPJ	2783783

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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Client Sample ID: GP-8 **Collected:** 09/04/2008 15:30 **SPL Sample ID:** 08090122-07

Site: PANTRY 585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND		1	1	09/09/08 7:00	RPJ	2783784
Ethylbenzene	ND		1	1	09/09/08 7:00	RPJ	2783784
Methyl tert-butyl ether	ND		5	1	09/09/08 7:00	RPJ	2783784
Naphthalene	ND		5	1	09/09/08 7:00	RPJ	2783784
Toluene	ND		1	1	09/09/08 7:00	RPJ	2783784
m,p-Xylene	ND		2	1	09/09/08 7:00	RPJ	2783784
o-Xylene	ND		1	1	09/09/08 7:00	RPJ	2783784
Xylenes,Total	ND		1	1	09/09/08 7:00	RPJ	2783784
Surr: 1,2-Dichloroethane-d4	97.5	%	74-133	1	09/09/08 7:00	RPJ	2783784
Surr: 4-Bromofluorobenzene	97.6	%	74-116	1	09/09/08 7:00	RPJ	2783784
Surr: Toluene-d8	99.8	%	84-112	1	09/09/08 7:00	RPJ	2783784

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

Quality Control Documentation

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

89-25384-0585

Analysis: Volatile Organics:Method 8260B+MTBE+Naphthalene
Method: SW8260B
WorkOrder: 08090122
Lab Batch ID: R187799

Method Blank

RunID: IA_080908A-2783967 Units: ug/L
Analysis Date: 09/08/2008 18:02 Analyst: RPJ
Preparation Date: 09/08/2008 18:02 Prep By: Method SW5035

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08090122-01A	GP-1
08090122-02A	GP-2
08090122-03A	GP-3

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	5.0
Naphthalene	ND	5.0
Toluene	ND	1.0
m,p-Xylene	ND	2.0
o-Xylene	ND	1.0
Xylenes,Total	ND	1.0
Surr: 1,2-Dichloroethane-d4	103.1	74-133
Surr: 4-Bromofluorobenzene	99.0	74-116
Surr: Toluene-d8	101.5	84-112

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: IA_080908A-2783964 Units: ug/L
Analysis Date: 09/08/2008 16:38 Analyst: RPJ

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	50.0	49.1	98.1	50.0	50.0	99.9	1.8	23	79	124
Ethylbenzene	50.0	48.4	96.7	50.0	49.6	99.2	2.5	16	79	125
Methyl tert-butyl ether	50.0	54.4	109	50.0	53.7	107	1.4	23	77	125
Naphthalene	50.0	49.0	98.0	50.0	48.9	97.8	0.2	27	72	132
Toluene	50.0	46.2	92.5	50.0	47.9	95.9	3.6	21	79	124
m,p-Xylene	100	98.4	98.4	100	103	103	4.1	20	77	132
o-Xylene	50.0	46.9	93.8	50.0	49.3	98.7	5.0	17	76	127
Xylenes,Total	150.0	145.3	96.86	150.0	152.3	101.3	4.4	20	76	130
Surr: 1,2-Dichloroethane-d4	50.0	53.0	106	50.0	52.2	104	1.4	30	74	133
Surr: 4-Bromofluorobenzene	50.0	49.8	99.5	50.0	49.5	99.1	0.4	30	74	116
Surr: Toluene-d8	50.0	51.0	102	50.0	51.9	104	1.6	30	84	112

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

ATC ASSOCIATES, INC.

89-25384-0585

Analysis: Volatile Organics:Method 8260B+MTBE+Naphthalene
Method: SW8260B
WorkOrder: 08090122
Lab Batch ID: R187804

Method Blank

RunID: IA_080908B-2783782 Units: ug/L
Analysis Date: 09/09/2008 6:05 Analyst: RPJ
Preparation Date: 09/09/2008 6:05 Prep By: Method SW5035

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08090122-06A	GP-7
08090122-07A	GP-8

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	5.0
Naphthalene	ND	5.0
Toluene	ND	1.0
m,p-Xylene	ND	2.0
o-Xylene	ND	1.0
Xylenes,Total	ND	1.0
Surr: 1,2-Dichloroethane-d4	99.2	74-133
Surr: 4-Bromofluorobenzene	102.1	74-116
Surr: Toluene-d8	101.0	84-112

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: IA_080908B-2783780 Units: ug/L
Analysis Date: 09/09/2008 4:41 Analyst: RPJ

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	50.0	48.4	96.8	50.0	50.2	100	3.6	23	79	124
Ethylbenzene	50.0	48.7	97.5	50.0	50.6	101	3.7	16	79	125
Methyl tert-butyl ether	50.0	51.4	103	50.0	54.1	108	5.1	23	77	125
Naphthalene	50.0	45.8	91.6	50.0	45.3	90.6	1.0	27	72	132
Toluene	50.0	47.5	95.0	50.0	49.4	98.8	3.9	21	79	124
m,p-Xylene	100	100	100	100	105	105	4.1	20	77	132
o-Xylene	50.0	48.0	96.0	50.0	50.1	100	4.2	17	76	127
Xylenes,Total	150	148	99.0	150	155	103	4.1	20	76	130
Surr: 1,2-Dichloroethane-d4	50.0	50.8	102	50.0	52.1	104	2.7	30	74	133
Surr: 4-Bromofluorobenzene	50.0	49.3	98.7	50.0	49.9	99.7	1.1	30	74	116
Surr: Toluene-d8	50.0	50.2	100	50.0	49.5	99.0	1.5	30	84	112

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

ATC ASSOCIATES, INC.

89-25384-0585

Analysis: **Volatile Organics:Method 8260B+MTBE+Naphthalene** **WorkOrder:** **08090122**
Method: **SW8260B** **Lab Batch ID:** **R187804**

Sample Spiked: 08090132-01
RunID: IA_080908B-2783798 Units: ug/L
Analysis Date: 09/09/2008 13:30 Analyst: RPJ

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	57.4	50	78.1	41.2 *	50	78.6	42.4 *	0.749	23	77	127
Ethylbenzene	26.5	50	47.6	42.2 *	50	47.9	42.8 *	0.706	16	50	150
Methyl tert-butyl ether	ND	50	50.3	101	50	52.5	105	4.29	23	50	150
Toluene	ND	50	31.0	54.6 *	50	31.7	56.1 *	2.31	21	71	135
m,p-Xylene	108	100	143	34.3 *	100	143	34.3 *	0.0182	20	50	150
o-Xylene	ND	50	32.2	59.7	50	32.8	60.9	1.90	17	50	150
Xylenes,Total	110.5	150	175.2	42.79 *	150	175.8	43.19 *	0.3380	20	50	150
Surr: 1,2-Dichloroethane-d4	ND	50	51.1	102	50	54.6	109	6.62	30	74	133
Surr: 4-Bromofluorobenzene	ND	50	50.2	100	50	51.1	102	1.82	30	74	116
Surr: Toluene-d8	ND	50	51	102	50	51.7	103	1.51	30	84	112

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

ATC ASSOCIATES, INC.

89-25384-0585

Analysis: Volatile Organics:Method 8260B+MTBE+Naphthalene
Method: SW8260B
WorkOrder: 08090122
Lab Batch ID: R187877

Method Blank

RunID: HA_080909B-2785183 Units: ug/L
Analysis Date: 09/10/2008 5:12 Analyst: DN
Preparation Date: 09/10/2008 5:12 Prep By: Method SW5035

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08090122-03A	GP-3
08090122-04A	GP-4

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	5.0
Naphthalene	ND	5.0
Toluene	ND	1.0
m,p-Xylene	ND	2.0
o-Xylene	ND	1.0
Xylenes,Total	ND	1.0
Surr: 1,2-Dichloroethane-d4	94.2	74-133
Surr: 4-Bromofluorobenzene	101.9	74-116
Surr: Toluene-d8	101.6	84-112

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: HA_080909B-2785181 Units: ug/L
Analysis Date: 09/10/2008 3:47 Analyst: DN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	50.0	51.3	103	50.0	54.4	109	5.8	23	79	124
Ethylbenzene	50.0	49.6	99.1	50.0	51.9	104	4.6	16	79	125
Methyl tert-butyl ether	50.0	43.6	87.2	50.0	46.4	92.9	6.3	23	77	125
Naphthalene	50.0	43.1	86.2	50.0	45.1	90.2	4.5	27	72	132
Toluene	50.0	48.2	96.4	50.0	50.8	102	5.2	21	79	124
m,p-Xylene	100	99.4	99.4	100	103	103	3.8	20	77	132
o-Xylene	50.0	48.2	96.4	50.0	51.4	103	6.4	17	76	127
Xylenes,Total	150.0	147.6	98.39	150.0	154.4	103.1	4.7	20	76	130
Surr: 1,2-Dichloroethane-d4	50.0	47.8	95.6	50.0	47.8	95.7	0.1	30	74	133
Surr: 4-Bromofluorobenzene	50.0	50.6	101	50.0	50.6	101	0.0	30	74	116
Surr: Toluene-d8	50.0	50.7	101	50.0	50.9	102	0.4	30	84	112

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

89-25384-0585

Analysis: Volatile Organics:Method 8260B+MTBE+Naphthalene
Method: SW8260B
WorkOrder: 08090122
Lab Batch ID: R188001

Method Blank

RunID: HA_080911B-2787354 Units: ug/L
Analysis Date: 09/12/2008 0:14 Analyst: HJL
Preparation Date: 09/12/2008 0:14 Prep By: Method SW5035

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08090122-02A	GP-2
08090122-05A	GP-5
08090122-06A	GP-7

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	5.0
Naphthalene	ND	5.0
Toluene	ND	1.0
m,p-Xylene	ND	2.0
o-Xylene	ND	1.0
Xylenes,Total	ND	1.0
Surr: 1,2-Dichloroethane-d4	94.2	74-133
Surr: 4-Bromofluorobenzene	100.3	74-116
Surr: Toluene-d8	103.3	84-112

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: HA_080911B-2787352 Units: ug/L
Analysis Date: 09/11/2008 22:50 Analyst: HJL

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	50.0	56.7	113	50.0	56.7	113	0.0	23	79	124
Ethylbenzene	50.0	52.8	106	50.0	53.6	107	1.5	16	79	125
Methyl tert-butyl ether	50.0	47.6	95.1	50.0	48.7	97.4	2.3	23	77	125
Naphthalene	50.0	40.9	81.8	50.0	42.3	84.6	3.4	27	72	132
Toluene	50.0	51.6	103	50.0	51.8	104	0.4	21	79	124
m,p-Xylene	100	105	105	100	107	107	1.4	20	77	132
o-Xylene	50.0	51.2	102	50.0	52.2	104	1.8	17	76	127
Xylenes,Total	150.0	156.2	104.3	150.0	159.2	105.9	1.6	20	76	130
Surr: 1,2-Dichloroethane-d4	50.0	47.2	94.3	50.0	48.1	96.2	2.0	30	74	133
Surr: 4-Bromofluorobenzene	50.0	50.0	100	50.0	49.8	99.7	0.4	30	74	116
Surr: Toluene-d8	50.0	51.7	103	50.0	51.8	104	0.2	30	84	112

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

Sample Receipt Checklist

And

Chain of Custody

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Sample Receipt Checklist

Workorder:	**08090122**	Received By:	**S_P**
Date and Time Received:	**9/6/2008 9:18:00 AM**	Carrier name:	**FedEx-Pri 1 Day AM**
Temperature:	**4.0°C**	Chilled by:	**Water Ice**

1.	**Shipping container/cooler in good condition?**	Yes ☑	No ☐	Not Present ☐
2.	**Custody seals intact on shippping container/cooler?**	Yes ☐	No ☐	Not Present ☑
3.	**Custody seals intact on sample bottles?**	Yes ☐	No ☐	Not Present ☑
4.	**Chain of custody present?**	Yes ☑	No ☐	
5.	**Chain of custody signed when relinquished and received?**	Yes ☑	No ☐	
6.	**Chain of custody agrees with sample labels?**	Yes ☑	No ☐	
7.	**Samples in proper container/bottle?**	Yes ☑	No ☐	
8.	**Sample containers intact?**	Yes ☑	No ☐	
9.	**Sufficient sample volume for indicated test?**	Yes ☑	No ☐	
10.	**All samples received within holding time?**	Yes ☑	No ☐	
11.	**Container/Temp Blank temperature in compliance?**	Yes ☑	No ☐	
12.	**Water - VOA vials have zero headspace?**	Yes ☑	No ☐	VOA Vials Not Present ☐
13.	**Water - Preservation checked upon receipt (except VOA*)?**	Yes ☐	No ☐	Not Applicable ☑

***VOA Preservation Checked After Sample Analysis**

SPL Representative: _____ **Contact Date & Time:** _____

Client Name Contacted: _____

Non Conformance Issues: _____

Client Instructions: _____

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No. 08090122

269247

page 1 of 1

Client Name: ATC ASSOCIATES
Address: CHARLOTTE NC
Phone/Fax: 704-529-3200
Client Contact: JAKE W. Email:
Project Name/No.: PANTAY 585
Site Name: 89-25387-0585
Site Location: ANDERSON, SC
Invoice To: JAKE Ph:

matrix: W=water S=soil O=oil SL=sludge X=other
bottle: P=plastic A=amber glass G=glass V=vial X=other
size: 1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other
pres.: 1=HCl 2=HNO3 3=H2SO4 X=other

Requested Analysis

SAMPLE ID	DATE	TIME	comp	grab	matrix	bottle	size	pres.	Number of Containers	8260 BTEX/MTBE/NAPH								
GP-1	9/4/08	13:00		X	W	GV	40	1	3	X								3
GP-2		13:15						1		X								3
GP-3		13:30								X								3
GP-4		15:00								X								3
GP-5		14:00								X								3
GP-6		16:00			NO	SAMPLE-	DAY											
GP-7		13:40				GV	40	1	3	X								3
GP-8		15:30					"	1	3	X								3
~~GP-9~~ NO	SAMPLE																	
~~GP-10~~ NO	SAMPLE																	

Client/Consultant Remarks:

Laboratory remarks: BL94(8)

Intact? ☐ Y ☐ N
Ice? ☐ Y ☐ N
Temp:

Requested TAT

Contract ☐ 72hr ☐
24hr ☐ Standard ☒
48hr ☐
Other ☐ _____

Special Reporting Requirements Results: Fax ☐ Email ☐ PDF ☐
Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☐

Special Detection Limits (specify):

PM review (initial):

1. Relinquished by Sampler:	date	time	2. Received by:
3. Relinquished by:	date 9/6/08	time 8:45	4. Received by:
5. Relinquished by:	date	time 9:15	6. Received by Laboratory:

☐ 8880 Interchange Drive
Houston, TX 77054 (713) 660-0901

☒ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

☐ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

(901) 369-3303
EMP #420991
FEDEX MEMPHIS OVERGOODS
2935 SOUTHAIRE

MEMPHIS, TN 38129

SHIP DATE: 05SEPT08
SYSTEM #3135899
ACTUAL WGT: 10 LB

TO:

FedEx Revenue Barcode

SHIPPING RECEIVING (337) 237-4775
SOUTHERN PETROLEUM LAB
109 COMMISSION BLVD

LAFAYETTE, LA 70508

FedEx

REF: 200809060022

Delivery Address Barcode (FedEx-EDR)

###PRIORITY SATURDAY###

TRK# 8659 5855 6083 FORM 0201

Deliver By:
06Sep08
A1

LFT

70508 -LA-US X0 LFTA
HLD

APPENDIX D

Monitor Well Records and Construction Logs

SOIL BORING LOG

PROJECT NAME:	Former Pantry 585	BORING I.D.:	GP-1
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	9/4/2008
PROJECT LOCATION:	1502 E. Greenville St Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Direct Push
		BORING DIAMETER:	2.5"
CLIENT:	The Pantry Inc.	SAMPLING METHOD/INTERVAL:	DPT Sleeve Recovery
LOGGED BY:	ATC Associates (JW)	REMARKS:	Boring Terminated at 15 ft.
		Borehole abandoned upon completion.	

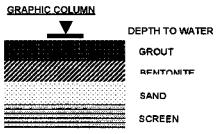
DESCRIPTIVE LOG (page 1 of 1)

SAMPLE INTERVAL	USCS	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
				1.0	
2		ND		2.0	
				3.0	
4		ND		4.0	Red-brown clayey SAND
				5.0	
6		ND		6.0	
				7.0	
8		26.3		8.0	Tan, red-brown fine SAND
				9.0	
10		ND		10.0	
				11.0	
12		ND		12.0	Grey-tan sandy CLAY
				13.0	
14		ND		14.0	Grey -brown micaceous CLAY (wet)
				15.0	
			TOB	16.0	Termination of Boring at 15 Feet
				17.0	
				18.0	
				19.0	
				20.0	
				21.0	
				22.0	
				23.0	
				24.0	
				25.0	
				26.0	
				27.0	

DRILLING METHODS
SS-SPLIT SPOON
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
GP-GEOPROBE
SPLIT SPOON

GRAPHIC COLUMN



TOB = Terminus of Boring

ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q
Columbia, SC 29203

SOIL BORING LOG

PROJECT NAME: Former Pantry 585	BORING I.D.: GP-2
PROJECT NO.: 14.25384.0585	DATE(S) DRILLED: 9/4/2008
PROJECT LOCAT 1502 E. Greenville St Anderson, SC	DRILLING CONTR.: EDPS DRILL METHOD: Direct Push BORING DIAMETER: 2.5"
CLIENT: The Pantry Inc.	SAMPLING METHOD/INTERVAL: DPT Sleeve Recovery
LOGGED BY: ATC Associates (JW)	REMARKS: Boring Terminated at 16 ft. Borehole abandoned upon completion.

DESCRIPTIVE LOG (page 1 of 1)

SAMPLE INTERVAL	USCS	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
				1.0	
2		4.5		2.0	
				3.0	
4		3.1		4.0	Red-brown clayey SAND
				5.0	
6		6.2		6.0	
				7.0	Grey clayey micaceous SILT
8		7.5		8.0	
				9.0	
10		89.7		10.0	
				11.0	
12		613		12.0	
				13.0	
14		918		14.0	Orange - brown micaceous fine SAND
				15.0	
16		702		16.0	Brown micaceous SAND
			TOB	17.0	Termination of Boring at 16 Feet
				18.0	
				19.0	
				20.0	
				21.0	
				22.0	
				23.0	
				24.0	
				25.0	
				26.0	
				27.0	

DRILLING METHODS
SS-SPLIT SPOON
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
GP-GEOPROBE
SPLIT SPOON

GRAPHIC COLUMN
DEPTH TO WATER
GROUT
BENTONITE
SAND
SCREEN

TOB = Terminus of Boring

ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q
Columbia, SC 29203

SOIL BORING LOG

PROJECT NAME:	Former Pantry 585	BORING I.D.:	GP-3
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	9/4/2008
PROJECT LOCATION:	1502 E. Greenville St Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Direct Push
		BORING DIAMETER:	2.5"
CLIENT:	The Pantry Inc.	SAMPLING METHOD/INTERVAL:	DPT Sleeve Recovery
LOGGED BY:	ATC Associates (JW)	REMARKS:	Boring Terminated at 20 ft.
			Borehole abandoned upon completion.

DESCRIPTIVE LOG (page 1 of 1)

SAMPLE INTERVAL	USCS	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
				1.0	
2		ND		2.0	
				3.0	
4		ND		4.0	Red-brown clayey fine SAND
				5.0	
6		ND		6.0	Tan - orange clayey SILT
				7.0	
8		7.1		8.0	
				9.0	
10		29.5		10.0	
				11.0	
12		73.6		12.0	Brown, grey - orange fine sandy SILT (moist)
				13.0	
14		794.0		14.0	
				15.0	
16		1366.0		16.0	Brown, grey-orange fine sandy SILT (moist)
				17.0	
18		1303.0		18.0	
				19.0	
20		47.3		20.0	
			TOB	21.0	Termination of Boring at 20 Feet
				22.0	
				23.0	
				24.0	
				25.0	
				26.0	
				27.0	

DRILLING METHODS
SS-SPLIT SPOON
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
GP-GEOPROBE
SPLIT SPOON

GRAPHIC COLUMN
DEPTH TO WATER
GROUT
BENTONITE
SAND
SCREEN

TOB = Terminus of Boring

ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q
Columbia, SC 29203

SOIL BORING LOG

PROJECT NAME:	Former Pantry 585	BORING I.D.:	GP-4
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	9/4/2008
PROJECT LOCATION:	1502 E. Greenville St Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Direct Push
		BORING DIAMETER:	2.5"
CLIENT:	The Pantry Inc.	SAMPLING METHOD/INTERVAL:	DPT Sleeve Recovery
LOGGED BY:	ATC Associates (JW)	REMARKS:	Boring Terminated at 16 ft.
		Borehole abandoned upon completion.	

DESCRIPTIVE LOG (page 1 of 1)

SAMPLE INTERVAL	USCS	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
				1.0	
2		201		2.0	
				3.0	
4		12.1		4.0	
				5.0	
6		7.5		6.0	Red - brown clayey fine SAND
				7.0	
8		10.3		8.0	
				9.0	
10		3.3		10.0	Grey clayey fine SAND
				11.0	
12		4.5		12.0	
				13.0	
14		103		14.0	Gray Clayey medium SAND
				15.0	
16		93.4		16.0	Brown - tan medium SAND
			TOB	17.0	Termination of Boring at 16 Feet
				18.0	
				19.0	
				20.0	
				21.0	
				22.0	
				23.0	
				24.0	
				25.0	
				26.0	
				27.0	

DRILLING METHODS
SS-SPLIT SPOON
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
GP-GEOPROBE
SPLIT SPOON

GRAPHIC COLUMN
DEPTH TO WATER
GROUT
BENTONITE
SAND
SCREEN
TOB = Terminus of Boring

ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q
Columbia, SC 29203

SOIL BORING LOG

PROJECT NAME:	Former Pantry 585	BORING I.D.:	GP-5
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	9/4/2008
PROJECT LOCATION:	1502 E. Greenville St Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Direct Push
		BORING DIAMETER:	2.5"
CLIENT:	The Pantry Inc.	SAMPLING METHOD/INTERVAL:	DPT Sleeve Recovery
LOGGED BY:	ATC Associates (JW)	REMARKS:	Boring Terminated at 16 ft.
		Borehole abandoned upon completion.	

DESCRIPTIVE LOG (page 1 of 1)

SAMPLE INTERVAL	USCS	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
				1.0	
2		383		2.0	
				3.0	
4		572		4.0	Red-brown clayey fine SAND
				5.0	
6		8838		6.0	
				7.0	
8		513		8.0	Gray-tan clayey medium SAND
				9.0	
10		1274		10.0	
				11.0	
12		1142		12.0	
				13.0	
14		794		14.0	Gray-tan clayey medium SAND (wet)
				15.0	
16		1082		16.0	Tan-gray micaceous fine sandy SILT
			TOB	17.0	Termination of Boring at 16 Feet
				18.0	
				19.0	
				20.0	
				21.0	
				22.0	
				23.0	
				24.0	
				25.0	
				26.0	
				27.0	

DRILLING METHODS
SS-SPLIT SPOON
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
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RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
GP-GEOPROBE
SPLIT SPOON

GRAPHIC COLUMN
DEPTH TO WATER
GROUT
BENTONITE
SAND
SCREEN
TOB = Terminus of Boring

ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q
Columbia, SC 29203

SOIL BORING LOG

PROJECT NAME:	Former Pantry 585	BORING I.D.:	GP-6
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	9/4/2008
PROJECT LOCATION:	1502 E. Greenville St Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Direct Push
		BORING DIAMETER:	2.5"
CLIENT:	The Pantry Inc.	SAMPLING METHOD/INTERVAL:	DPT Sleeve Recovery
LOGGED BY:	ATC Associates (JW)	REMARKS:	Boring Terminated at 16 ft.
			Borehole abandoned upon completion.

DESCRIPTIVE LOG (page 1 of 1)

SAMPLE INTERVAL	USCS	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
				1.0	
2		6.4		2.0	
				3.0	
4		8.3		4.0	Brown-red clayey fine SAND
				5.0	
6		4.0		6.0	Tan, brown-gray clayey SAND
				7.0	
8		17.1		8.0	
				9.0	
10		9.2		10.0	
				11.0	Tan-brown medium SAND
12		13.2		12.0	
				13.0	
14		6.7		14.0	
				15.0	
16		30.8		16.0	Tan, dark brown micaceous sily SAND
			TOB	17.0	Termination of Boring at 16 Feet
				18.0	
				19.0	
				20.0	
				21.0	
				22.0	
				23.0	
				24.0	
				25.0	
				26.0	
				27.0	

DRILLING METHODS
SS-SPLIT SPOON
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
GP-GEOPROBE
SPLIT SPOON

GRAPHIC COLUMN
DEPTH TO WATER
GROUT
BENTONITE
SAND
SCREEN

TOB = Terminus of Boring

ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q
Columbia, SC 29203

SOIL BORING LOG

PROJECT NAME:	Former Pantry 585	BORING I.D.:	GP-7
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	9/4/2008
PROJECT LOCATION:	1502 E. Greenville St Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Direct Push
		BORING DIAMETER:	2.5"
CLIENT:	The Pantry Inc.	SAMPLING METHOD/INTERVAL:	DPT Sleeve Recovery
LOGGED BY:	ATC Associates (JW)	REMARKS:	Boring Terminated at 13 ft.
		Refusal at 13', Borehole abandoned upon completion.	

DESCRIPTIVE LOG (page 1 of 1)

SAMPLE INTERVAL	USCS	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
				1.0	
2		4.3		2.0	
				3.0	
4		7.0		4.0	
				5.0	
6		275		6.0	Red-brown clayey SAND
				7.0	
8		137		8.0	Gray fine sandy CLAY
				9.0	
10		1158		10.0	
				11.0	
12		653		12.0	
				13.0	Gray fine sandy CLAY (wet)
			TOB	14.0	Termination of Boring at 13 Feet
				15.0	
				16.0	
				17.0	
				18.0	
				19.0	
				20.0	
				21.0	
				22.0	
				23.0	
				24.0	
				25.0	
				26.0	
				27.0	

DRILLING METHODS
SS-SPLIT SPOON
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
GP-GEOPROBE
SPLIT SPOON

GRAPHIC COLUMN
DEPTH TO WATER
GROUT
BENTONITE
SAND
SCREEN

TOB = Terminus of Boring

ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q
Columbia, SC 29203

SOIL BORING LOG

PROJECT NAME:	Former Pantry 585	BORING I.D.:	GP-8
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	9/4/2008
PROJECT LOCATION:	1502 E. Greenville St Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Direct Push
		BORING DIAMETER:	2.5"
CLIENT:	The Pantry Inc.	SAMPLING METHOD/INTERVAL:	DPT Sleeve Recovery
LOGGED BY:	ATC Associates (JW)	REMARKS:	Boring Terminated at 18 ft.
		Refusal at 18', Borehole abandoned upon completion.	

DESCRIPTIVE LOG (page 1 of 1)

SAMPLE INTERVAL	USCS	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
				1.0	
2		ND		2.0	
				3.0	
4		ND		4.0	Red-brown clayey fine SAND
				5.0	
6		ND		6.0	
				7.0	Red-brown clayey SAND
8		ND		8.0	
				9.0	
10		ND		10.0	
				11.0	Tan-gray clayey fine SAND
12		ND		12.0	
				13.0	
14		ND		14.0	
				15.0	
16		ND		16.0	Tan-brown silty SAND (moist)
				17.0	
				18.0	
			TOB	19.0	Termination of Boring at 18 Feet
				20.0	
				21.0	
				22.0	
				23.0	
				24.0	
				25.0	
				26.0	
				27.0	

DRILLING METHODS
SS-SPLIT SPOON
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
GP-GEOPROBE
SPLIT SPOON

GRAPHIC COLUMN
DEPTH TO WATER
GROUT
BENTONITE
SAND
SCREEN
TOB = Terminus of Boring

ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q
Columbia, SC 29203

SOIL BORING LOG

PROJECT NAME:	Former Pantry 585	BORING I.D.:	MW-14
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	10/6/2008
PROJECT LOCATION:	1502 E. Greenville St Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Hollow Stem Auger
		BORING DIAMETER:	4.25"
CLIENT:	The Pantry Inc.	SAMPLING METHOD/INTERVAL:	Continuous Split Spoon
LOGGED BY:	ATC Associates (JW)	REMARKS:	TD 25 ft ; Screened from 5'-25'

MW-14 is located next to the drive way of Healthcare Center

DESCRIPTIVE LOG (page 1 of 1)

SAMPLE INTERVAL (ft)	USCS	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
				1.0	Grass surface
				2.0	
				3.0	
				4.0	
5		0		5.0	Red-brown, tan clayey SILT
				6.0	
				7.0	
				8.0	
				9.0	
10		0		10.0	Red-brown clayey SILT (moist)
				11.0	
				12.0	
				13.0	
				14.0	
15		0		15.0	Red-brown sandy SILT. (DTW 15.32' on 10/16/2008)
				16.0	
				17.0	
				18.0	
				19.0	
20		NA		20.0	Tan, red-brown clayey fine SAND, wet.
				21.0	
				22.0	
				23.0	
				24.0	
25		NA		25.0	Tan, red-brown clayey fine SAND, wet.
				26.0	Terminated drilling, set well at 25'
				27.0	
				28.0	
				29.0	
				30.0	
				31.0	

DRILLING METHODS
SS-SPLIT SPOON
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
GP-GEOPROBE
SPLIT SPOON

GRAPHIC COLUMN
DEPTH TO WATER
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q
Columbia, SC 29203

D H E C
PROMOTE PROTECT PROSPER

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

MW-12

1. WELL OWNER INFORMATION:
Name: The Pantry Inc. (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:**
Name: Former Pantry Service Station # 585
Street Address: 1502 East Greenville Street
City: Anderson, SC Zip:
Latitude: NA Longitude: NA

3. PUBLIC SYSTEM NAME: NA **PUBLIC SYSTEM NUMBER:** NA

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from NA ft. to NA ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
0-25 (clay silt)		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: MW-14

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

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 10-6-08
25 ft. Date Completed: 10-22-08

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
5 in. to 0 ft. depth
in. to ft. depth
Height: Above ☐ Below ☑
Surface NA ft.
Weight NA lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.001/Sch.40 Length: 20'
Set Between: 25 ft. and 5 ft.
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 25 ft. to 3 ft.
Effective size #2, MED Uniformity Coefficient SAND

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 3 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: NA ft. NA direction
Type NA
Well Disinfected ☐ Yes ☑ No Type: NA Amount: NA

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

19. WELL DRILLER: Tommy Bolyard **CERT. NO.:** 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: 704-607-7529 Fax No.: 803-548-2233

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

Signed: Tommy Bolyard Date: 10/16/08
Well Driller
If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

SOIL BORING LOG

PROJECT NAME:	Former Pantry 585	BORING I.D.:	MW-15
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	10/6/2008
PROJECT LOCATION:	1502 E. Greenville St Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Hollow Stem Auger
		BORING DIAMETER:	4.25"
CLIENT:	The Pantry Inc.	SAMPLING METHOD/INTERVAL:	Continuous Split Spoon
LOGGED BY:	ATC Associates (JW)	REMARKS:	TD 25 ft ; Screened from 5'-25'

MW-15 is located on Healthcare Center property

DESCRIPTIVE LOG (page 1 of 1)

SAMPLE INTERVAL (ft)	USCS	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
				1.0	Grass surface
				2.0	
				3.0	
				4.0	
5		0		5.0	Brown-red micaceous clayey SILT
				6.0	
				7.0	
				8.0	
				9.0	
10		0		10.0	Red-brown micaceous clayey SILT
				11.0	
				12.0	(DTW 12.83' on 10/16/2008)
				13.0	
				14.0	
15		0		15.0	Tan, red-brown micaceous clayey SILT
				16.0	
				17.0	
				18.0	
				19.0	
20		NA		20.0	Tan, red-brown micaceous sandy SILT, wet.
				21.0	
				22.0	
				23.0	
				24.0	
25		NA		25.0	Dark red-brown sandy SILT, wet.
				26.0	Terminated drilling, set well at 25'
				27.0	
				28.0	
				29.0	
				30.0	
				31.0	

DRILLING METHODS
SS-SPLIT SPOON
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
GP-GEOPROBE
SPLIT SPOON

GRAPHIC COLUMN
DEPTH TO WATER
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q
Columbia, SC 29203

DHEC
PROMOTE PROTECT PROSPER

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

MW-15

1. WELL OWNER INFORMATION:
Name: The Pantry Inc. (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:**
Name: Former Pantry Service Station # 585
Street Address: 1502 East Greenville Street
City: Anderson, SC Zip:
Latitude: NA Longitude: NA

3. PUBLIC SYSTEM NAME: NA **PUBLIC SYSTEM NUMBER:** NA

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from NA ft. to NA ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
0-25 (clay silt)		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: MW-15

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

7. PERMIT NUMBER:

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 10-6-08
25 ft. Date Completed: 10-22-08

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
5 in. to 0 ft. depth
in. to ft. depth
Height: Above ☐ Below ☑
Surface NA ft.
Weight NA lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.001/Sch.40 Length: 20'
Set Between: 25 ft. and 5 ft.
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 25 ft. to 3 ft.
Effective size #2, MED Uniformity Coefficient SAND

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 3 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: NA ft. NA direction
Type NA
Well Disinfected ☐ Yes ☑ No Type: NA Amount: NA

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

19. WELL DRILLER: Tommy Bolyard **CERT. NO.:** 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: 704-607-1529 Fax No.: 803-548-2233

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

Signed: Tommy Bolyard Date: 10/16/08
Well Driller
If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

SOIL BORING LOG

PROJECT NAME:	Former Pantry 585	BORING I.D.:	MW-16
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	10/6/2008
PROJECT LOCATION:	1502 E. Greenville St Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Hollow Stem Auger
		BORING DIAMETER:	4.25"
CLIENT:	The Pantry Inc.	SAMPLING METHOD/INTERVAL:	Continuous Split Spoon
LOGGED BY:	ATC Associates (JW)	REMARKS:	TD 20 ft ; Screened from 5'-20'

DESCRIPTIVE LOG (page 1 of 1)

SAMPLE INTERVAL (ft)	USCS	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
				1.0	Grass surface
				2.0	
				3.0	
				4.0	
5		1.6		5.0	Red-brown silty CLAY
				6.0	
				7.0	
				8.0	
				9.0	
10		0.7		10.0	Red-brown medium sandy SILT (moist)
				11.0	
				12.0	
				13.0	(DTW 13.31' on 10/16/2008)
				14.0	
15		0		15.0	Red-brown fine sandy SILT
				16.0	
				17.0	
				18.0	Tan sandy SILT
				19.0	
20		NA		20.0	Tan-brown clayey fine SAND, wet.
				21.0	Terminated drilling, set well at 20'
				22.0	
				23.0	
				24.0	
				25.0	
				26.0	
				27.0	
				28.0	
				29.0	
				30.0	
				31.0	

DRILLING METHODS
SS-SPLIT SPOON
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
GP-GEOPROBE
SPLIT SPOON

GRAPHIC COLUMN
DEPTH TO WATER
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q
Columbia, SC 29203

D H E C
PROMOTE PROTECT PROSPER

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

MW-16

1. WELL OWNER INFORMATION:
Name: The Pantry Inc. (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:**
Name: Former Pantry Service Station # 585
Street Address: 1502 East Greenville Street
City: Anderson, SC Zip:
Latitude: NA Longitude: NA

3. PUBLIC SYSTEM NAME: NA **PUBLIC SYSTEM NUMBER:** NA

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from NA ft. to NA ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
0-20 (clay silt)		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: MW-16

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

7. PERMIT NUMBER:

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 10-6-08
20 ft. Date Completed: 10-22-08

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
5 in. to 0 ft. depth
in. to ft. depth
Height: Above ☐ Below ☑
Surface NA ft.
Weight NA lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.001/Sch.40 Length: 15'
Set Between: 20 ft. and 5 ft.
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 20 ft. to 3 ft.
Effective size #2, MED Uniformity Coefficient SAND

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 3 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: NA ft. NA direction
Type NA
Well Disinfected ☐ Yes ☑ No Type: NA Amount: NA

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

19. WELL DRILLER: Tommy Bolyard **CERT. NO.:** 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: 704-001-7329 Fax No.: 803-548-2233

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

Signed: Well Driller Date: 10/16/08

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

SOIL BORING LOG

PROJECT NAME:	Former Pantry 585	BORING I.D.:	MW-17
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	10/6/2008
PROJECT LOCATION:	1502 E. Greenville St Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Hollow Stem Auger
		BORING DIAMETER:	4.25"
CLIENT:	The Pantry Inc.	SAMPLING METHOD/INTERVAL:	Continuous Split Spoon
LOGGED BY:	ATC Associates (JW)	REMARKS:	TD 20 ft ; Screened from 5'-20'

DESCRIPTIVE LOG (page 1 of 1)

SAMPLE INTERVAL (ft)	USCS	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
				1.0	Asphalt
				2.0	
				3.0	
				4.0	
5		5.3		5.0	Tan-brown sandy SILT
				6.0	
				7.0	
				8.0	
				9.0	
10		9.3		10.0	Gray-brown, Tan clayey fine SAND
				11.0	
				12.0	
				13.0	(DTP at 13.40' & DTW at 14.05' on 10/16/08)
				14.0	
15		1385		15.0	Tan-orange, brown sandy SILT
				16.0	
				17.0	
				18.0	
				19.0	
20		NA		20.0	Tan-orange, brown sandy SILT, wet.
				21.0	Terminated drilling, set well at 20'
				22.0	
				23.0	
				24.0	
				25.0	
				26.0	
				27.0	
				28.0	
				29.0	
				30.0	
				31.0	

DRILLING METHODS
SS-SPLIT SPOON
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
GP-GEOPROBE
SPLIT SPOON

GRAPHIC COLUMN
DEPTH TO WATER
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q
Columbia, SC 29203

DHEC
PROMOTE PROTECT PROSPER

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

MW-17

1. WELL OWNER INFORMATION:
Name: The Pantry Inc. (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:**
Name: Former Pantry Service Station # 585
Street Address: 1502 East Greenville Street
City: Anderson, SC Zip:
Latitude: NA Longitude: NA

3. PUBLIC SYSTEM NAME: NA **PUBLIC SYSTEM NUMBER:** NA

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from NA ft. to NA ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
0-20 (clay silt)		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: MW-17

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

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 10-6-08
20 ft. Date Completed: 10-22-08

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
5 in. to 0 ft. depth
in. to ft. depth
Height: Above ☐ Below ☑
Surface NA ft.
Weight NA lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.001/Sch.40 Length: 15'
Set Between: 20 ft. and 5 ft.
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 20 ft. to 3 ft.
Effective size #2, MED Uniformity Coefficient SAND

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 3 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: NA ft. NA direction
Type NA
Well Disinfected ☐ Yes ☑ No Type: NA Amount: NA

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

19. WELL DRILLER: Tommy Bolyard **CERT. NO.:** 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: 704-607-7329 Fax No.: 803-548-2233

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

Signed: Tommy Bolyard Date: 10/16/08
Well Driller
If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

SOIL BORING LOG

PROJECT NAME:	Former Pantry 585	BORING I.D.:	MW-18 D
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	10/8-9/2008
PROJECT LOCATION:	1502 E. Greenville St Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Hollow Stem Auger/Air Rotary
		BORING DIAMETER:	8.25" to set 6" casing
CLIENT:	The Pantry Inc.	SAMPLING METHOD/INTERVAL:	Drill cuttings
LOGGED BY:	ATC Associates (DL)	REMARKS:	TD 80ft ; Screened from 80' to 75'

DESCRIPTIVE LOG (page 1 of 3)

SAMPLE INTERVAL (ft)	USCS	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
				1.0	Asphalt
2		0		2.0	
				3.0	
4		5.9		4.0	Brown sandy SILT
				5.0	
				6.0	
				7.0	
8		1.0		8.0	Brown sandy SILT
				9.0	
			▼	10.0	(DTW 10.82' on 10/16/2008)
				11.0	
				12.0	
13		0		13.0	Tan sandy SILT
				14.0	
				15.0	
				16.0	
				17.0	
				18.0	
				19.0	
20		NA		20.0	Brown-tan sandy SILT, wet.
				21.0	
				22.0	
				23.0	
				24.0	
25		NA		25.0	Brown-tan sandy SILT, wet.
				26.0	
				27.0	
				28.0	
				29.0	
30		NA		30.0	Brown clayey fine SAND, wet.

DRILLING METHODS
SS-SPLIT SPOON
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
GP-GEOPROBE
SPLIT SPOON

GRAPHIC COLUMN
DEPTH TO WATER
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q
Columbia, SC 29203

SOIL BORING LOG

PROJECT NAME:	Former Pantry 585	BORING I.D.:	MW-18 D
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	10/8-9/2008
PROJECT LOCATION:	1502 E. Greenville St Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Hollow Stem Auger/Air Rotary
		BORING DIAMETER:	8.25" to set 6" casing
CLIENT:	The Pantry Inc.	SAMPLING METHOD/INTERVAL:	Drill cuttings
LOGGED BY:	ATC Associates (DL)	REMARKS:	TD 80ft ; Screened from 80' to 75'

DESCRIPTIVE LOG (page 2 of 3)

SAMPLE INTERVAL	USCS	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
				31.0	
				32.0	
				33.0	
				34.0	
				35.0	
				36.0	
				37.0	
				38.0	
				39.0	
40		NA		40.0	Brown Silty Sand, wet.
				41.0	
				42.0	
				43.0	
				44.0	
				45.0	
				46.0	
				47.0	
				48.0	
				49.0	
50		NA		50.0	Partially Weathered Rock - Brown silty SAND
				51.0	
				52.0	
				53.0	
				54.0	
				55.0	
				56.0	
				57.0	
				58.0	
				59.0	
60		NA		60.0	Partially Weathered Rock - Brown silty SAND

DRILLING METHODS
SS-SPLIT SPOON
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
GP-GEOPROBE
SPLIT SPOON

GRAPHIC COLUMN
DEPTH TO WATER
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q
Columbia, SC 29203

SOIL BORING LOG

PROJECT NAME:	Former Pantry 585	BORING I.D.:	MW-18 D
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	10/8-9/2008
PROJECT LOCATION:	1502 E. Greenville St Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Hollow Stem Auger/Air Rotary
		BORING DIAMETER:	8.25" to set 6" casing
CLIENT:	The Pantry Inc.	SAMPLING METHOD/INTERVAL:	Drill cuttings
LOGGED BY:	ATC Associates (DL)	REMARKS:	TD 80ft ; Screened from 80' to 75'

DESCRIPTIVE LOG (page 3 of 3)

SAMPLE INTERVAL	USCS	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
				61.0	
				62.0	
				63.0	
				64.0	
				65.0	
				66.0	
				67.0	
				68.0	
				69.0	
70		NA		70.0	Micaceous ROCK. Set outer 6-inch well casing at 70 ft.
				71.0	
				72.0	
				73.0	
				74.0	
				75.0	
				76.0	
				77.0	
				78.0	
				79.0	
				80.0	
				81.0	Terminated drilling, set well at 80' with 5 feet of screen.
				82.0	
				83.0	
				84.0	
				85.0	

DRILLING METHODS
SS-SPLIT SPOON
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
GP-GEOPROBE
SPLIT SPOON

GRAPHIC COLUMN

DEPTH TO WATER
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q
Columbia, SC 29203

DHEC
PROMOTE PROTECT PROSPER

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

MW-18D

1. WELL OWNER INFORMATION:
Name: The Pantry Inc. (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:**
Name: Former Pantry Service Station # 585
Street Address: 1502 East Greenville Street
City: Anderson, SC Zip:
Latitude: NA Longitude: NA

3. PUBLIC SYSTEM NAME: NA **PUBLIC SYSTEM NUMBER:** NA

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from NA ft. to NA ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
0-70 (clay silt some PWR)		
70-80 (bedrock)		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: ~~MW-18~~
MW-18 D

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

7. PERMIT NUMBER:

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 10-6-08
80 ft. Date Completed: 10-22-08

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
75 (2") in. to 0 ft. depth
70 (6") in. to 0 ft. depth
Height: Above ☐ Below ☑
Surface NA ft.
Weight NA lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.001/Sch.40 Length: 5'
Set Between: 80 ft. and 75 ft.
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 80 ft. to 73 ft.
Effective size #2, MED Uniformity Coefficient SAND

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 73 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: NA ft. NA direction
Type NA
Well Disinfected ☐ Yes ☑ No Type: NA Amount: NA

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

19. WELL DRILLER: Tommy Bolyard **CERT. NO.:** 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: 704-607-7529 Fax No.: 803-548-2233

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

Signed: Tommy Bolyard Date: 10/16/08
Well Driller

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

SOIL BORING LOG

PROJECT NAME:	Former Pantry 585	BORING I.D.:	MW-19 D
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	10/9-10/2008
PROJECT LOCATION:	1502 E. Greenville St Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Hollow Stem Auger/Air Rotary
		BORING DIAMETER:	8.25" to set 6" casing
CLIENT:	The Pantry Inc.	SAMPLING METHOD/INTERVAL:	Drill cuttings
LOGGED BY:	ATC Associates (DL)	REMARKS:	TD 47ft ; Screened from 47' to 42'

DESCRIPTIVE LOG (page 1 of 2)

SAMPLE INTERVAL (ft)	USCS	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
				1.0	Asphalt
2		0		2.0	
				3.0	
4		1530		4.0	Brown sandy SILT
				5.0	
6		1605		6.0	Red-brown clayey SILT
				7.0	
8		1575		8.0	
				9.0	
				10.0	Grey-brown clayey SILT
				11.0	
				12.0	
				13.0	
				14.0	
15		811	▼	15.0	Brown sandy SILT. (DTW 15.82' on 10/16/2008)
				16.0	
				17.0	
				18.0	
				19.0	
20		507		20.0	Brown sandy SILT
				21.0	
				22.0	
				23.0	
				24.0	
25		NA		25.0	Red-brown sandy SILT.
				26.0	
				27.0	
				28.0	
				29.0	
				30.0	

DRILLING METHODS
SS-SPLIT SPOON
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
GP-GEOPROBE
SPLIT SPOON

GRAPHIC COLUMN
▼ DEPTH TO WATER
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q
Columbia, SC 29203

SOIL BORING LOG

PROJECT NAME:	Former Pantry 585	BORING I.D.:	MW-19 D
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	10/9-10/2008
PROJECT LOCATION:	1502 E. Greenville St Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Hollow Stem Auger/Air Rotary
		BORING DIAMETER:	8.25" to set 6" casing
CLIENT:	The Pantry Inc.	SAMPLING METHOD/INTERVAL:	Drill cuttings
LOGGED BY:	ATC Associates (DL)	REMARKS:	TD 47ft ; Screened from 47' to 42'

DESCRIPTIVE LOG (page 2 of 2)

SAMPLE INTERVAL	USCS	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
				31.0	
				32.0	
				33.0	
				34.0	
35		NA		35.0	Red-brown clayey fine SAND
				36.0	
				37.0	
				38.0	
				39.0	
40		NA		40.0	Red-brown clayey fine SAND. Set outer 6" casing at 40 ft.
				41.0	
				42.0	
				43.0	
				44.0	
				45.0	
				46.0	
				47.0	
				48.0	Terminated drilling, set well at 47' with 5 feet of screen.
				49.0	
				50.0	
				51.0	
				52.0	
				53.0	
				54.0	
				55.0	

DRILLING METHODS
SS-SPLIT SPOON
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
GP-GEOPROBE
SPLIT SPOON

GRAPHIC COLUMN
DEPTH TO WATER
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q
Columbia, SC 29203

DHEC
PROMOTE PROTECT PROSPER

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

MW-19D

1. WELL OWNER INFORMATION:
Name: The Pantry Inc. (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:**
Name: Former Pantry Service Station # 585
Street Address: 1502 East Greenville Street
City: Anderson, SC Zip:
Latitude: NA Longitude: NA

3. PUBLIC SYSTEM NAME: NA **PUBLIC SYSTEM NUMBER:** NA

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from NA ft. to NA ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
0-47 (clay silt some PWR)		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: ~~MW-19~~
MW-19 D

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

7. PERMIT NUMBER:

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) ~~80~~ ft. 47 Date Started: 10-6-08 Date Completed: 10-22-08

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
42 (2") in. to 0 ft. depth
40 (6") in. to 0 ft. depth
Height: Above ☐ Below ☑
Surface NA ft.
Weight NA lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.001/Sch.40 Length: 5'
Set Between: 47 ft. and 42 ft.
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 47 ft. to 40 ft.
Effective size #2, MED Uniformity Coefficient SAND

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 40 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: NA ft. NA direction
Type NA
Well Disinfected ☐ Yes ☑ No Type: NA Amount: NA

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

19. WELL DRILLER: Tommy Bolyard **CERT. NO.:** 1846
Address: (Print) 17538 Greenhill Rd, Char, NC 28278
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-607-7329 Fax No.: 803-548-2233

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

Signed: Tommy Bolyard (Well Driller) Date: 10/16/08

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

SOIL BORING LOG

PROJECT NAME:	Former Pantry 585	BORING I.D.:	MW-20 D
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	10/9-10/2008
PROJECT LOCATION:	1502 E. Greenville St Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Hollow Stem Auger/Air Rotary
		BORING DIAMETER:	8.25" to set 6" casing
CLIENT:	The Pantry Inc.	SAMPLING METHOD/INTERVAL:	Drill cuttings
LOGGED BY:	ATC Associates (DL)	REMARKS:	TD 47ft ; Screened from 47' to 42'

DESCRIPTIVE LOG (page 1 of 2)

SAMPLE INTERVAL (ft)	USCS	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
				1.0	Asphalt
				2.0	
				3.0	
4		64.4		4.0	FILL
5		719		5.0	Brown Silty CLAY
				6.0	
				7.0	
				8.0	
				9.0	
10		760		10.0	Tan sandy SILT
				11.0	
			▼	12.0	(DTW 12.30' on 10/16/2008)
				13.0	
				14.0	
				15.0	
				16.0	
				17.0	
				18.0	
				19.0	
20		1418		20.0	Brown clayey fine SAND
				21.0	
				22.0	
				23.0	
				24.0	
25		NA		25.0	Red-brown clayey fine SAND
				26.0	
				27.0	
				28.0	
				29.0	
30		NA		30.0	Brown silty SAND

DRILLING METHODS
SS-SPLIT SPOON
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
GP-GEOPROBE
SPLIT SPOON

GRAPHIC COLUMN
DEPTH TO WATER
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q
Columbia, SC 29203

SOIL BORING LOG

PROJECT NAME:	Former Pantry 585	BORING I.D.:	MW-20 D
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	10/9-10/2008
PROJECT LOCATION:	1502 E. Greenville St Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Hollow Stem Auger/Air Rotary
		BORING DIAMETER:	8.25" to set 6" casing
CLIENT:	The Pantry Inc.	SAMPLING METHOD/INTERVAL:	Drill cuttings
LOGGED BY:	ATC Associates (DL)	REMARKS:	TD 47ft ; Screened from 47' to 42'

DESCRIPTIVE LOG (page 2 of 2)

SAMPLE INTERVAL	USCS	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
				31.0	
				32.0	
				33.0	
				34.0	
				35.0	
				36.0	
				37.0	
				38.0	
				39.0	
40		NA		40.0	Tan Silty SAND. Set outer 6" casing at 40 ft.
				41.0	
				42.0	
				43.0	
				44.0	
				45.0	
				46.0	
				47.0	
				48.0	Terminated drilling, set well at 47' with 5 feet of screen.
				49.0	
				50.0	
				51.0	
				52.0	
				53.0	
				54.0	
				55.0	

DRILLING METHODS
SS-SPLIT SPOON
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
GP-GEOPROBE
SPLIT SPOON

GRAPHIC COLUMN
DEPTH TO WATER
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q
Columbia, SC 29203

D H E C
PROMOTE PROTECT PROSPER

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

MW-20 D

1. WELL OWNER INFORMATION:
Name: The Pantry Inc. (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:**
Name: Former Pantry Service Station # 585
Street Address: 1502 East Greenville Street
City: Anderson, SC Zip:
Latitude: NA Longitude: NA

3. PUBLIC SYSTEM NAME: NA **PUBLIC SYSTEM NUMBER:** NA

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from NA ft. to NA ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
0-47 (clay silt some PWR)		
*Indicate Water Bearing Zones		
(Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: MW-20
MW-20 D

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

7. PERMIT NUMBER:

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 80 ft. Date Started: 10-6-08 Date Completed: 10-22-08

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
42 (2") in. to 0 ft. depth
40 (6") in. to 0 ft. depth
Height: Above ☐ Below ☑
Surface NA ft.
Weight NA lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.001/Sch.40 Length: 5'
Set Between: 47 ft. and 42 ft.
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 47 ft. to 40 ft.
Effective size #2, MED Uniformity Coefficient SAND

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 40 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: NA ft. NA direction
Type NA
Well Disinfected ☐ Yes ☑ No Type: NA Amount: NA

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

19. WELL DRILLER: Tommy Bolyard **CERT. NO.:** 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: 704-007-7329 Fax No.: 803-548-2233

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

Signed: Tommy Bolyard Date: 10/16/08
Well Driller

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

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

SOIL BORING LOG

PROJECT NAME:	Former Pantry 585	BORING I.D.:	MW-21 D
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	10/13-14/2008
PROJECT LOCATION:	1502 E. Greenville St Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Hollow Stem Auger/Air Rotary
		BORING DIAMETER:	8.25" to set 6" casing
CLIENT:	The Pantry Inc.	SAMPLING METHOD/INTERVAL:	Drill cuttings
LOGGED BY:	ATC Associates (DL)	REMARKS:	TD 47ft ; Screened from 47' to 42'

DESCRIPTIVE LOG (page 1 of 2)

SAMPLE INTERVAL (ft)	USCS	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
				1.0	Asphalt
				2.0	
				3.0	
4		0.5		4.0	Brown silty CLAY (roots)
				5.0	
				6.0	
				7.0	
8		0.5		8.0	Brown silty CLAY
				9.0	
10		125	▼	10.0	Light red-brown sandy SILT; (DTW 10.20' on 10/16/2008)
				11.0	
12		9.6		12.0	Brown sandy SILT
				13.0	
				14.0	
15		NA		15.0	Brown sandy SILT
				16.0	
				17.0	
				18.0	
				19.0	
20		NA		20.0	Brown sandy SILT
				21.0	
				22.0	
				23.0	
				24.0	
25		NA		25.0	Brown silty fine SAND
				26.0	
				27.0	
				28.0	
				29.0	
30		NA		30.0	Brown silty fine SAND

DRILLING METHODS
SS-SPLIT SPOON
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
GP-GEOPROBE
SPLIT SPOON

GRAPHIC COLUMN
▼ DEPTH TO WATER
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q
Columbia, SC 29203

SOIL BORING LOG

PROJECT NAME:	Former Pantry 585	BORING I.D.:	MW-21 D
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	10/13-14/2008
PROJECT LOCATION:	1502 E. Greenville St Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Hollow Stem Auger/Air Rotary
		BORING DIAMETER:	8.25" to set 6" casing
CLIENT:	The Pantry Inc.	SAMPLING METHOD/INTERVAL:	Drill cuttings
LOGGED BY:	ATC Associates (DL)	REMARKS:	TD 47ft ; Screened from 47' to 42'

DESCRIPTIVE LOG (page 2 of 2)

SAMPLE INTERVAL	USCS	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
				31.0	
				32.0	
				33.0	
				34.0	
35		NA		35.0	Brown clayey fine SAND
				36.0	
				37.0	
				38.0	
				39.0	
40		NA		40.0	Light brown silty fine SAND. Set outer 6" casing at 40 ft.
				41.0	
				42.0	
				43.0	
				44.0	
				45.0	
				46.0	
				47.0	
				48.0	Terminated drilling, set well at 47' with 5 feet of screen.
				49.0	
				50.0	
				51.0	
				52.0	
				53.0	
				54.0	
				55.0	

DRILLING METHODS
SS-SPLIT SPOON
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
GP-GEOPROBE
SPLIT SPOON

GRAPHIC COLUMN

DEPTH TO WATER
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q
Columbia, SC 29203

DHEC
PROMOTE PROTECT PROSPER

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

MW-21D

1. WELL OWNER INFORMATION:
Name: The Pantry Inc. (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:**
Name: Former Pantry Service Station # 585
Street Address: 1502 East Greenville Street
City: Anderson, SC Zip:
Latitude: NA Longitude: NA

3. PUBLIC SYSTEM NAME: NA **PUBLIC SYSTEM NUMBER:** NA

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from NA ft. to NA ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
0-47 (clay silt some PWR)		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: ~~MW-21~~ RS
MW-21D

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

7. PERMIT NUMBER:

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) ~~30~~ 47 ft. Date Started: 10-6-08 Date Completed: 10-22-08

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
42 (2") in. to 0 ft. depth
40 (6") in. to 0 ft. depth
Height: Above ☐ Below ☑
Surface NA ft.
Weight NA lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.001/Sch.40 Length: 5'
Set Between: 47 ft. and 42 ft.
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 47 ft. to 40 ft.
Effective size #2, MED Uniformity Coefficient SAND

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 40 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: NA ft. NA direction
Type NA
Well Disinfected ☐ Yes ☑ No Type: NA Amount: NA

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

19. WELL DRILLER: Tommy Bolyard **CERT. NO.:** 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: 704-607-7329 Fax No.: 803-548-2233

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

Signed: [signature] Date: 10/16/08
Well Driller
If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

SOIL BORING LOG

PROJECT NAME:	Former Pantry 585	BORING I.D.:	MW-22 D
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	10/13-14/2008
PROJECT LOCATION:	1502 E. Greenville St Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Hollow Stem Auger/Air Rotary
		BORING DIAMETER:	8.25" to set 6" casing
CLIENT:	The Pantry Inc.	SAMPLING METHOD/INTERVAL:	Drill cuttings
LOGGED BY:	ATC Associates (DL)	REMARKS:	TD 47ft ; Screened from 47' to 42'

DESCRIPTIVE LOG (page 1 of 2)

SAMPLE INTERVAL (ft)	USCS	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
				1.0	Asphalt
				2.0	
				3.0	
				4.0	
5		42.5		5.0	Brown sandy SILT
				6.0	
				7.0	
				8.0	
				9.0	
10		33.7	▼	10.0	Light brown sandy SILT; (DTW 10.23' on 10/16/2008)
				11.0	
				12.0	
				13.0	
				14.0	
15		15.5		15.0	Brown clayey fine SAND
				16.0	
				17.0	
				18.0	
				19.0	
20		0.6		20.0	Dark brown clayey fine SAND
				21.0	
				22.0	
				23.0	
				24.0	
25		NA		25.0	Dark brown clayey fine SAND
				26.0	
				27.0	
				28.0	
				29.0	
30		NA		30.0	Dark brown silty SAND

DRILLING METHODS
SS-SPLIT SPOON
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
GP-GEOPROBE
SPLIT SPOON

GRAPHIC COLUMN
▼ DEPTH TO WATER
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q
Columbia, SC 29203

SOIL BORING LOG

PROJECT NAME:	Former Pantry 585	BORING I.D.:	MW-22 D
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	10/13-14/2008
PROJECT LOCATION:	1502 E. Greenville St Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Hollow Stem Auger/Air Rotary
		BORING DIAMETER:	8.25" to set 6" casing
CLIENT:	The Pantry Inc.	SAMPLING METHOD/INTERVAL:	Drill cuttings
LOGGED BY:	ATC Associates (DL)	REMARKS:	TD 47ft ; Screened from 47' to 42'

DESCRIPTIVE LOG (page 2 of 2)

SAMPLE INTERVAL	USCS	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
				31.0	
				32.0	
				33.0	
				34.0	
				35.0	
				36.0	
				37.0	
				38.0	
				39.0	
40		NA		40.0	Dark brown silty fine SAND. Set outer 6" casing at 40 ft.
				41.0	
				42.0	
				43.0	
				44.0	
				45.0	
				46.0	
				47.0	
				48.0	Terminated drilling, set well at 47' with 5 feet of screen.
				49.0	
				50.0	
				51.0	
				52.0	
				53.0	
				54.0	
				55.0	

DRILLING METHODS
SS-SPLIT SPOON
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
GP-GEOPROBE
SPLIT SPOON

GRAPHIC COLUMN
DEPTH TO WATER
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q
Columbia, SC 29203

D H E C
PROMOTE PROTECT PROSPER

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

MW-22D

1. WELL OWNER INFORMATION:
Name: The Pantry Inc. (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:**
Name: Former Pantry Service Station # 585
Street Address: 1502 East Greenville Street
City: Anderson, SC Zip:
Latitude: NA Longitude: NA

3. PUBLIC SYSTEM NAME: NA **PUBLIC SYSTEM NUMBER:** NA

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from NA ft. to NA ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
0-47 (clay silt some PWR)		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: ~~MW-22~~ MW-22D PS

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

7. PERMIT NUMBER:

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) ~~80~~ 47' ft. Date Started: 10-6-08 Date Completed: 10-22-08

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
42 (2") in. to 0 ft. depth
40 (6") in. to 0 ft. depth
Height: Above ☐ Below ☑
Surface NA ft.
Weight NA lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.001/Sch.40 Length: 5'
Set Between: 47 ft. and 42 ft.
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 47 ft. to 40 ft.
Effective size #2, MED Uniformity Coefficient SAND

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 40 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: NA ft. NA direction
Type NA
Well Disinfected ☐ Yes ☑ No Type: NA Amount: NA

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

19. WELL DRILLER: Tommy Bolyard **CERT. NO.:** 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: 704-001-1529 Fax No.: 803-548-2233

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

Signed: Tommy Bolyard Date: 10/16/08
Well Driller

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

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

SOIL BORING LOG

PROJECT NAME:	Former Pantry 585	BORING I.D.:	MW-23
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	10/13/2008
PROJECT LOCATION:	1502 E. Greenville St Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Hollow Stem Auger
		BORING DIAMETER:	4.25"
CLIENT:	The Pantry Inc.	SAMPLING METHOD/INTERVAL:	Continuous Split Spoon
LOGGED BY:	ATC Associates (JW)	REMARKS:	TD 20 ft ; Screened from 5'-20'

DESCRIPTIVE LOG (page 1 of 1)

SAMPLE INTERVAL (ft)	USCS	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
				1.0	Asphalt
				2.0	
				3.0	
				4.0	
5		726		5.0	Brown sandy SILT
				6.0	
				7.0	
				8.0	
				9.0	
10		50		10.0	Brown sandy SILT; (DTW 10.01' on 10/16/2008)
				11.0	
				12.0	
				13.0	
				14.0	
15		870		15.0	Brown silty CLAY
				16.0	
				17.0	
				18.0	
				19.0	
20		NA		20.0	Tan clayey fine SAND, wet.
				21.0	Terminated drilling, set well at 20'
				22.0	
				23.0	
				24.0	
				25.0	
				26.0	
				27.0	
				28.0	
				29.0	
				30.0	
				31.0	

DRILLING METHODS
SS-SPLIT SPOON
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
GP-GEOPROBE
SPLIT SPOON

GRAPHIC COLUMN
DEPTH TO WATER
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q
Columbia, SC 29203

D H E C
PROMOTE PROTECT PROSPER

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

MW-23

1. WELL OWNER INFORMATION:
Name: The Pantry Inc. (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:**
Name: Former Pantry Service Station # 585
Street Address: 1502 East Greenville Street
City: Anderson, SC Zip:
Latitude: NA Longitude: NA

3. PUBLIC SYSTEM NAME: NA **PUBLIC SYSTEM NUMBER:** NA

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from NA ft. to NA ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
0-20 (clay silt)		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: MW-23

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

7. PERMIT NUMBER:

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 10-6-08
20 ft. Date Completed: 10-22-08

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
5 in. to 0 ft. depth
in. to ft. depth
Height: Above ☐ Below ☑
Surface NA ft.
Weight NA lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.001/Sch.40 Length: 15'
Set Between: 20 ft. and 5 ft.
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 20 ft. to 3 ft.
Effective size #2, MED Uniformity Coefficient SAND

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 3 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: NA ft. NA direction
Type NA
Well Disinfected ☐ Yes ☑ No Type: NA Amount: NA

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

19. WELL DRILLER: Tommy Bolyard **CERT. NO.:** 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: 704-607-7329 Fax No.: 803-548-2233

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

Signed: Tommy Bolyard (Well Driller) Date: 10/16/08

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

SOIL BORING LOG

PROJECT NAME:	Former Pantry 585	BORING I.D.:	MW-24
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	10/14/2008
PROJECT LOCATION:	1502 E. Greenville St Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Hollow Stem Auger
		BORING DIAMETER:	4.25"
CLIENT:	The Pantry Inc.	SAMPLING METHOD/INTERVAL:	Continuous Split Spoon
LOGGED BY:	ATC Associates (JW)	REMARKS:	TD 20 ft ; Screened from 5'-20'

DESCRIPTIVE LOG (page 1 of 1)

SAMPLE INTERVAL (ft)	USCS	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
				1.0	Asphalt
				2.0	
				3.0	
4		215		4.0	Brown silty CLAY
				5.0	
6		150		6.0	Tan, brown sandy CLAY
				7.0	
				8.0	
				9.0	
10		127		10.0	Tan clayey SILT; (DTW 10.51' on 10/16/2008)
				11.0	
12		15.9		12.0	Dark brown sandy SILT
				13.0	
				14.0	
				15.0	
16		NA		16.0	Dark brown sandy SILT, wet.
				17.0	
				18.0	
				19.0	
20		NA		20.0	Dark Brown silty SAND, wet.
				21.0	Terminated drilling, set well at 20'
				22.0	
				23.0	
				24.0	
				25.0	
				26.0	
				27.0	
				28.0	
				29.0	
				30.0	
				31.0	

DRILLING METHODS
SS-SPLIT SPOON
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
GP-GEOPROBE
SPLIT SPOON

GRAPHIC COLUMN
DEPTH TO WATER
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q
Columbia, SC 29203

D H E C
PROMOTE PROTECT PROSPER

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

MW-24

1. WELL OWNER INFORMATION:
Name: The Pantry Inc. (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:**
Name: Former Pantry Service Station # 585
Street Address: 1502 East Greenville Street
City: Anderson, SC Zip:
Latitude: NA Longitude: NA

3. PUBLIC SYSTEM NAME: NA **PUBLIC SYSTEM NUMBER:** NA

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from NA ft. to NA ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
0-20 (clay silt)		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: MW-24

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

7. PERMIT NUMBER:

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 10-6-08
20 ft. Date Completed: 10-22-08

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
5 in. to 0 ft. depth
in. to ft. depth
Height: Above ☐ Below ☑
Surface NA ft.
Weight NA lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.001/Sch.40 Length: 15'
Set Between: 20 ft. and 5 ft.
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 20 ft. to 3 ft.
Effective size #2, MED Uniformity Coefficient SAND

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 3 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: NA ft. NA direction
Type NA
Well Disinfected ☐ Yes ☑ No Type: NA Amount: NA

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

19. WELL DRILLER: Tommy Bolyard **CERT. NO.:** 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: 704-607-1329 Fax No.: 803-548-2233

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

Signed: Well Driller Date: 10/16/08

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

SOIL BORING LOG

PROJECT NAME:	Former Pantry 585	BORING I.D.:	MW-25
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	10/14/2008
PROJECT LOCATION:	1502 E. Greenville St Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Hollow Stem Auger
		BORING DIAMETER:	4.25"
CLIENT:	The Pantry Inc.	SAMPLING METHOD/INTERVAL:	Continuous Split Spoon
LOGGED BY:	ATC Associates (JW)	REMARKS:	TD 20 ft ; Screened from 5'-20'

DESCRIPTIVE LOG (page 1 of 1)

SAMPLE INTERVAL (ft)	USCS	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
				1.0	Grass
				2.0	
				3.0	
				4.0	
5		8.8		5.0	Red silty Clay
				6.0	
				7.0	
				8.0	
				9.0	
10		42.8		10.0	Orange-red silty CLAY
				11.0	
				12.0	
				13.0	(DTW 13.34 on 10/16/2008)
				14.0	
15		4.7		15.0	Brown sandy SILT
				16.0	
				17.0	
				18.0	
				19.0	
20		NA		20.0	Brown sandy SILT, wet.
				21.0	Terminated drilling, set well at 20'
				22.0	
				23.0	
				24.0	
				25.0	
				26.0	
				27.0	
				28.0	
				29.0	
				30.0	
				31.0	

DRILLING METHODS
SS-SPLIT SPOON
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
GP-GEOPROBE
SPLIT SPOON

GRAPHIC COLUMN
DEPTH TO WATER
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q
Columbia, SC 29203

DHEC
PROMOTE PROTECT PROSPER

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

MW-25

1. WELL OWNER INFORMATION:
Name: The Pantry Inc. (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:**
Name: Former Pantry Service Station # 585
Street Address: 1502 East Greenville Street
City: Anderson, SC Zip:
Latitude: NA Longitude: NA

3. PUBLIC SYSTEM NAME: NA **PUBLIC SYSTEM NUMBER:** NA

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from NA ft. to NA ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
0-20 (clay silt)		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: MW-25

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

7. PERMIT NUMBER:

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 10-6-08
20 ft. Date Completed: 10-22-08

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
5 in. to 0 ft. depth
in. to ft. depth
Height: Above ☐ Below ☑
Surface NA ft.
Weight NA lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.001/Sch.40 Length: 15'
Set Between: 20 ft. and 5 ft.
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 20 ft. to 3 ft.
Effective size #2, MED Uniformity Coefficient SAND

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 3 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: NA ft. NA direction
Type NA
Well Disinfected ☐ Yes ☑ No Type: NA Amount: NA

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

19. WELL DRILLER: Tommy Bolyard **CERT. NO.:** 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: 704-607-7329 Fax No.: 803-548-2233

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

Signed: Tommy Bolyard Date: 10/16/08
Well Driller

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

SOIL BORING LOG

PROJECT NAME:	Former Pantry 585	BORING I.D.:	MW-26
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	10/14/2008
PROJECT LOCATION:	1502 E. Greenville St Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Hollow Stem Auger
		BORING DIAMETER:	4.25"
CLIENT:	The Pantry Inc.	SAMPLING METHOD/INTERVAL:	Continuous Split Spoon
LOGGED BY:	ATC Associates (JW)	REMARKS:	TD 20 ft ; Screened from 5'-20'

DESCRIPTIVE LOG (page 1 of 1)

SAMPLE INTERVAL (ft)	USCS	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
				1.0	Asphalt
				2.0	
				3.0	
				4.0	
5		13.9		5.0	
				6.0	
				7.0	
8		15.3		8.0	Brown silty CLAY
				9.0	(DTW 9.98' on 10/17/2008)
				10.0	
				11.0	
12		15.6		12.0	Brown sandy SILT
				13.0	
				14.0	
				15.0	
16		NA		16.0	Brown sandy SILT, wet.
				17.0	
				18.0	
				19.0	
20		NA		20.0	Red clayey fine SAND, wet.
				21.0	Terminated drilling, set well at 20'
				22.0	
				23.0	
				24.0	
				25.0	
				26.0	
				27.0	
				28.0	
				29.0	
				30.0	
				31.0	

DRILLING METHODS
SS-SPLIT SPOON
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
GP-GEOPROBE
SPLIT SPOON

GRAPHIC COLUMN
DEPTH TO WATER
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q
Columbia, SC 29203

DHEC
PROMOTE PROTECT PROSPER

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

MW-26

1. WELL OWNER INFORMATION:
Name: The Pantry Inc. (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:**
Name: Former Pantry Service Station # 585
Street Address: 1502 East Greenville Street
City: Anderson, SC Zip:
Latitude: NA Longitude: NA

3. PUBLIC SYSTEM NAME: NA **PUBLIC SYSTEM NUMBER:** NA

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from NA ft. to NA ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
0-20 (clay silt)		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: MW-26

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

7. PERMIT NUMBER:

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 10-6-08
20 ft. Date Completed: 10-22-08

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
5 in. to 0 ft. depth
in. to ft. depth
Height: Above ☐ Below ☑
Surface NA ft.
Weight NA lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.001/Sch.40 Length: 15'
Set Between: 20 ft. and 5 ft.
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 20 ft. to 3 ft.
Effective size #2, MED Uniformity Coefficient SAND

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 3 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: NA ft. NA direction
Type NA
Well Disinfected ☐ Yes ☑ No Type: NA Amount: NA

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

19. WELL DRILLER: Tommy Bolyard **CERT. NO.:** 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: 704-607-7329 Fax No.: 803-548-2233

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

Signed: Tommy Bolyard Date: 10/16/08
Well Driller
If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

SOIL BORING LOG

PROJECT NAME:	Former Pantry 585	BORING I.D.:	MW-27
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	10/14/2008
PROJECT LOCATION:	1502 E. Greenville St Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Hollow Stem Auger
		BORING DIAMETER:	4.25"
CLIENT:	The Pantry Inc.	SAMPLING METHOD/INTERVAL:	Continuous Split Spoon
LOGGED BY:	ATC Associates (JW)	REMARKS:	TD 20 ft ; Screened from 5'-20'

DESCRIPTIVE LOG (page 1 of 1)

SAMPLE INTERVAL (ft)	USCS	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
				1.0	Asphalt
				2.0	
				3.0	
				4.0	
5		2.7		5.0	Red-brown CLAY
6		145		6.0	Brown clayey SILT
				7.0	
				8.0	
				9.0	
10		440		10.0	Brown silty CLAY
				11.0	
				12.0	
				13.0	(DTP at 12.39 & DTW at 13.71 on 10/17/08)
				14.0	
15		NA		15.0	Red-brown sandy SILT, wet.
				16.0	
				17.0	
				18.0	
				19.0	
20		NA		20.0	Dark brown sandy SILT
				21.0	Terminated drilling, set well at 20'
				22.0	
				23.0	
				24.0	
				25.0	
				26.0	
				27.0	
				28.0	
				29.0	
				30.0	
				31.0	

DRILLING METHODS
SS-SPLIT SPOON
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
GP-GEOPROBE
SPLIT SPOON

GRAPHIC COLUMN
DEPTH TO WATER
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q
Columbia, SC 29203

DHEC
PROMOTE PROTECT PROSPER

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

MW-27

1. WELL OWNER INFORMATION:
Name: The Pantry Inc. (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:**
Name: Former Pantry Service Station # 585
Street Address: 1502 East Greenville Street
City: Anderson, SC Zip:
Latitude: NA Longitude: NA

3. PUBLIC SYSTEM NAME: NA **PUBLIC SYSTEM NUMBER:** NA

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from NA ft. to NA ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
0-20 (clay silt)		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: MW-27

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

7. PERMIT NUMBER:

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 10-6-08
20 ft. Date Completed: 10-22-08

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
5 in. to 0 ft. depth
in. to ft. depth
Height: Above ☐ Below ☑
Surface NA ft.
Weight NA lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.001/Sch.40 Length: 15'
Set Between: 20 ft. and 5 ft.
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 20 ft. to 3 ft.
Effective size #2, MED Uniformity Coefficient SAND

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 3 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: NA ft. NA direction
Type NA
Well Disinfected ☐ Yes ☑ No Type: NA Amount: NA

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

19. WELL DRILLER: Tommy Bolyard **CERT. NO.:** 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: 704-807-7529 Fax No.: 803-548-2233

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

Signed: Well Driller Date: 10/16/08

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

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

SOIL BORING LOG

PROJECT NAME:	Former Pantry 585	BORING I.D.:	MW-28
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	10/14/2008
PROJECT LOCATION:	1502 E. Greenville St Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Hollow Stem Auger
		BORING DIAMETER:	4.25"
CLIENT:	The Pantry Inc.	SAMPLING METHOD/INTERVAL:	Continuous Split Spoon
LOGGED BY:	ATC Associates (JW)	REMARKS:	TD 20 ft ; Screened from 5'-20'

DESCRIPTIVE LOG (page 1 of 1)

SAMPLE INTERVAL (ft)	USCS	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
				1.0	Asphalt
				2.0	
				3.0	
				4.0	
5		11.6		5.0	Tan silty CLAY
6		14.3		6.0	Tan sandy SILT
				7.0	
				8.0	
				9.0	
10		18.4		10.0	Brown sandy SILT
				11.0	(DTW 11.85 on 10/17/2008)
				12.0	
				13.0	
				14.0	
15		NA		15.0	Brown sandy SILT, wet.
				16.0	
				17.0	
				18.0	
				19.0	
20		NA		20.0	Brown sandy SILT, wet.
				21.0	Terminated drilling, set well at 20'
				22.0	
				23.0	
				24.0	
				25.0	
				26.0	
				27.0	
				28.0	
				29.0	
				30.0	
				31.0	

DRILLING METHODS
SS-SPLIT SPOON
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
GP-GEOPROBE
SPLIT SPOON

GRAPHIC COLUMN
DEPTH TO WATER
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, SC 29203

D H E C
PROMOTE PROTECT PROSPER

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

MW-28

1. WELL OWNER INFORMATION:
Name: The Pantry Inc. (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:**
Name: Former Pantry Service Station # 585
Street Address: 1502 East Greenville Street
City: Anderson, SC Zip:
Latitude: NA Longitude: NA

3. PUBLIC SYSTEM NAME: NA **PUBLIC SYSTEM NUMBER:** NA

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from NA ft. to NA ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
0-20 (clay silt)		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: MW-28

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

7. PERMIT NUMBER:

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) 20 ft. Date Started: 10-6-08 Date Completed: 10-22-08

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
5 in. to 0 ft. depth
in. to ft. depth
Height: Above ☐ Below ☑
Surface NA ft.
Weight NA lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.001/Sch.40 Length: 15'
Set Between: 20 ft. and 5 ft.
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 20 ft. to 3 ft.
Effective size #2, MED Uniformity Coefficient SAND

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 3 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: NA ft. NA direction
Type NA
Well Disinfected ☐ Yes ☑ No Type: NA Amount: NA

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

19. WELL DRILLER: Tommy Bolyard **CERT. NO.:** 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: 704-001-7329 Fax No.: 803-548-2233

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

Signed: [signature] Well Driller Date: 10/16/08

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

SOIL BORING LOG

PROJECT NAME:	Former Pantry 585	BORING I.D.:	MW-29
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	10/14/2008
PROJECT LOCATION:	1502 E. Greenville St Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Hollow Stem Auger
		BORING DIAMETER:	4.25"
CLIENT:	The Pantry Inc.	SAMPLING METHOD/INTERVAL:	Continuous Split Spoon
LOGGED BY:	ATC Associates (JW)	REMARKS:	TD 20 ft ; Screened from 5'-20'

DESCRIPTIVE LOG (page 1 of 1)

SAMPLE INTERVAL (ft)	USCS	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
				1.0	Concrete
				2.0	
				3.0	
				4.0	
5		201		5.0	FILL hard red silty CLAY
6		638		6.0	
				7.0	
				8.0	
				9.0	
10		338		10.0	Red-brown silty fine SAND
				11.0	
				12.0	
				13.0	(DTP at 13.32' & DTW at 13.42' 10/17/2008)
				14.0	
15		238		15.0	Red-brown silty fine SAND
				16.0	
				17.0	
				18.0	
				19.0	
20		NA		20.0	Red clayey fine SAND, wet.
				21.0	Terminated drilling, set well at 20'
				22.0	
				23.0	
				24.0	
				25.0	
				26.0	
				27.0	
				28.0	
				29.0	
				30.0	
				31.0	

DRILLING METHODS
SS-SPLIT SPOON
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
GP-GEOPROBE
SPLIT SPOON

GRAPHIC COLUMN
DEPTH TO WATER
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q
Columbia, SC 29203

DHEC
PROMOTE PROTECT PROSPER

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

MW-29

1. WELL OWNER INFORMATION:
Name: The Pantry Inc. (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:**
Name: Former Pantry Service Station # 585
Street Address: 1502 East Greenville Street
City: Anderson, SC Zip:
Latitude: NA Longitude: NA

3. PUBLIC SYSTEM NAME: NA **PUBLIC SYSTEM NUMBER:** NA

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from NA ft. to NA ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
0-20 (clay silt)		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: MW-29

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

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 10-6-08
20 ft. Date Completed: 10-22-08

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
5 in. to 0 ft. depth
in. to ft. depth
Height: Above ☐ Below ☑
Surface NA ft.
Weight NA lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.001/Sch.40 Length: 15'
Set Between: 20 ft. and 5 ft.
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 20 ft. to 3 ft.
Effective size #2, MED Uniformity Coefficient SAND

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 3 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: NA ft. NA direction
Type NA
Well Disinfected ☐ Yes ☑ No Type: NA Amount: NA

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

19. WELL DRILLER: Tommy Bolyard **CERT. NO.:** 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: 704-607-7329 Fax No.: 803-548-2233

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

Signed: Tommy Bolyard Date: 10/16/08
Well Driller

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

SOIL BORING LOG

PROJECT NAME:	Former Pantry 585	BORING I.D.:	MW-30
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	10/15/2008
PROJECT LOCATION:	1502 E. Greenville St Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Hollow Stem Auger
		BORING DIAMETER:	4.25"
CLIENT:	The Pantry Inc.	SAMPLING METHOD/INTERVAL:	Continuous Split Spoon
LOGGED BY:	ATC Associates (JW)	REMARKS:	TD 20 ft ; Screened from 5'-20'

DESCRIPTIVE LOG (page 1 of 1)

SAMPLE INTERVAL (ft)	USCS	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
				1.0	Asphalt
				2.0	
				3.0	
				4.0	
5		92.6		5.0	Red silty CLAY
				6.0	
				7.0	
8		61.2		8.0	Brown clayey SILT
				9.0	
				10.0	
				11.0	
12		32.5		12.0	Tan silty fine SAND, wet.
				13.0	
				14.0	(DTP at 11.92' & DTW at 14.10' on 10/17/2008)
15		NA		15.0	Tan silty fine SAND, wet.
				16.0	
				17.0	
				18.0	
				19.0	
20		NA		20.0	Tan silty fine SAND, wet.
				21.0	Terminated drilling, set well at 20'
				22.0	
				23.0	
				24.0	
				25.0	
				26.0	
				27.0	
				28.0	
				29.0	
				30.0	
				31.0	

DRILLING METHODS
SS-SPLIT SPOON
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
GP-GEOPROBE
SPLIT SPOON

GRAPHIC COLUMN
DEPTH TO WATER
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q
Columbia, SC 29203

D H E C
PROMOTE PROTECT PROSPER

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

MW-30

1. WELL OWNER INFORMATION:
Name: The Pantry Inc. (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:**
Name: Former Pantry Service Station # 585
Street Address: 1502 East Greenville Street
City: Anderson, SC Zip:
Latitude: NA Longitude: NA

3. PUBLIC SYSTEM NAME: NA **PUBLIC SYSTEM NUMBER:** NA

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from NA ft. to NA ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
0-20 (clay silt)		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: MW-30

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

7. PERMIT NUMBER:

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 10-6-08
20 ft. Date Completed: 10-22-08

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
5 in. to 0 ft. depth
in. to ft. depth
Height: Above ☐ Below ☑
Surface NA ft.
Weight NA lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.001/Sch.40 Length: 15'
Set Between: 20 ft. and 5 ft.
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 20 ft. to 3 ft.
Effective size #2, MED Uniformity Coefficient SAND

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 3 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: NA ft. NA direction
Type NA
Well Disinfected ☐ Yes ☑ No Type: NA Amount: NA

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

19. WELL DRILLER: Tommy Bolyard **CERT. NO.:** 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: 704-607-1329 Fax No.: 803-548-2233

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

Signed: Well Driller Date: 10/16/08

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

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

SOIL BORING LOG

PROJECT NAME:	Former Pantry 585	BORING I.D.:	MW-31
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	10/15/2008
PROJECT LOCATION:	1502 E. Greenville St Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Hollow Stem Auger
		BORING DIAMETER:	4.25"
CLIENT:	The Pantry Inc.	SAMPLING METHOD/INTERVAL:	Continuous Split Spoon
LOGGED BY:	ATC Associates (JW)	REMARKS:	TD 20 ft ; Screened from 5'-20'

DESCRIPTIVE LOG (page 1 of 1)

SAMPLE INTERVAL (ft)	USCS	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
				1.0	Asphalt
				2.0	
				3.0	
				4.0	
5		92.5		5.0	Red-brown silty Clay
				6.0	
				7.0	
8		146		8.0	Tan sandy SILT
				9.0	
				10.0	
				11.0	(DTW 11.85' on 10/17/2008)
12		50.2		12.0	Brown sandy SILT
				13.0	
				14.0	
15		NA		15.0	Brown sandy SILT, wet.
				16.0	
				17.0	
				18.0	
				19.0	
20		NA		20.0	Tan clayey fine SAND, wet.
				21.0	Terminated drilling, set well at 20'
				22.0	
				23.0	
				24.0	
				25.0	
				26.0	
				27.0	
				28.0	
				29.0	
				30.0	
				31.0	

DRILLING METHODS
SS-SPLIT SPOON
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
GP-GEOPROBE
SPLIT SPOON

GRAPHIC COLUMN
DEPTH TO WATER
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q
Columbia, SC 29203

DHEC
PROMOTE PROTECT PROSPER

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

MW-31

1. WELL OWNER INFORMATION:
Name: The Pantry Inc. (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:**
Name: Former Pantry Service Station # 585
Street Address: 1502 East Greenville Street
City: Anderson, SC Zip:
Latitude: NA Longitude: NA

3. PUBLIC SYSTEM NAME: NA **PUBLIC SYSTEM NUMBER:** NA

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from NA ft. to NA ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
0-20 (clay silt)		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: MW-31

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

7. PERMIT NUMBER:

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 10-6-08
20 ft. Date Completed: 10-22-08

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
5 in. to 0 ft. depth
in. to ft. depth
Height: Above ☐ Below ☑
Surface NA ft.
Weight NA lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.001/Sch.40 Length: 15'
Set Between: 20 ft. and 5 ft.
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 20 ft. to 3 ft.
Effective size #2, MED Uniformity Coefficient SAND

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 3 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: NA ft. NA direction
Type NA
Well Disinfected ☐ Yes ☑ No Type: NA Amount: NA

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

19. WELL DRILLER: Tommy Bolyard **CERT. NO.:** 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: 704-607-1529 Fax No.: 803-548-2233

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

Signed: Well Driller Date: 10/16/08

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

SOIL BORING LOG

PROJECT NAME:	Former Pantry 585	BORING I.D.:	DMW-3
PROJECT NO.:	89.25384.0585	DATE(S) DRILLED:	10/7-8/2008
PROJECT LOCATION:	1502 E. Greenville St, Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Hollow Stem Auger/Air Rotary
		BORING DIAMETER:	8.25" to set 6" casing
CLIENT:	The Pantry Inc.	SAMPLING METHOD/INTERVAL:	Drill cuttings
LOGGED BY:	ATC Associates (JW)	REMARKS:	TD 130 ft ; Screened from 130' to 125'

DESCRIPTIVE LOG (page 1 of 5)

SAMPLE INTERVAL (ft)	USCS	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
				1.0	Asphalt
				2.0	
				3.0	
				4.0	
5		1035		5.0	Red-brown, tan silty CLAY
				6.0	
				7.0	
				8.0	
				9.0	
10		761		10.0	Tan, gray-brown silty CLAY
				11.0	
				12.0	
				13.0	
				14.0	
15		991		15.0	Tan-brown silty CLAY (moist)
				16.0	
				17.0	
				18.0	
				19.0	
20		37.8		20.0	Tan, brown sandy SILT
				21.0	
				22.0	
				23.0	
				24.0	
				25.0	
				26.0	
				27.0	
				28.0	
			▼	29.0	(DTW 29.88' on 10/17/2008)
30		40.6		30.0	

DRILLING METHODS
SS-SPLIT SPOON
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
GP-GEOPROBE
SPLIT SPOON

GRAPHIC COLUMN
DEPTH TO WATER
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q
Columbia, SC 29203

SOIL BORING LOG

PROJECT NAME:	Former Pantry 585	BORING I.D.:	DMW-3
PROJECT NO.:	89.25384.0585	DATE(S) DRILLED:	10/7-8/2008
PROJECT LOCATION:	1502 E. Greenville St, Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Hollow Stem Auger/Air Rotary
		BORING DIAMETER:	8.25" to set 6" casing
CLIENT:	The Pantry Inc.	SAMPLING METHOD/INTERVAL:	Drill cuttings
LOGGED BY:	ATC Associates (JW)	REMARKS:	TD 130 ft ; Screened from 130' to 125'

DESCRIPTIVE LOG (page 2 of 5)

SAMPLE INTERVAL	USCS	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
				31.0	
				32.0	
				33.0	
				34.0	
35		NA		35.0	Brown, tan silty SAND
				36.0	
				37.0	
				38.0	
				39.0	
				40.0	
				41.0	
				42.0	
				43.0	
				44.0	
45		NA		45.0	Partially Weathered Rock, tan silty SAND
				46.0	
				47.0	
				48.0	
				49.0	
				50.0	
				51.0	
				52.0	
				53.0	
				54.0	
55		NA		55.0	
				56.0	
				57.0	
				58.0	
				59.0	
				60.0	

DRILLING METHODS
SS-SPLIT SPOON
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
GP-GEOPROBE
SPLIT SPOON

GRAPHIC COLUMN

DEPTH TO WATER
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q
Columbia, SC 29203

SOIL BORING LOG

PROJECT NAME:	Former Pantry 585	BORING I.D.:	DMW-3
PROJECT NO.:	89.25384.0585	DATE(S) DRILLED:	10/7-8/2008
PROJECT LOCATION:	1502 E. Greenville St, Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Hollow Stem Auger/Air Rotary
		BORING DIAMETER:	8.25" to set 6" casing
CLIENT:	The Pantry Inc.	SAMPLING METHOD/INTERVAL:	Drill cuttings
LOGGED BY:	ATC Associates (JW)	REMARKS:	TD 130 ft ; Screened from 130' to 125'

DESCRIPTIVE LOG (page 3 of 5)

SAMPLE INTERVAL	USCS	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
				61.0	
				62.0	
				63.0	
				64.0	
65		NA		65.0	ROCK (mica and quartz fragments)
				66.0	
				67.0	
				68.0	
				69.0	
				70.0	
				71.0	
				72.0	
				73.0	
				74.0	
75		NA		75.0	ROCK (mica and quartz fragments)
				76.0	
				77.0	
				78.0	
				79.0	
				80.0	
				81.0	
				82.0	
				83.0	
				84.0	
85		NA		85.0	ROCK (mica and quartz fragments)
				86.0	
				87.0	
				88.0	
				89.0	
				90.0	

DRILLING METHODS
SS-SPLIT SPOON
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
GP-GEOPROBE
SPLIT SPOON

GRAPHIC COLUMN
DEPTH TO WATER
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q
Columbia, SC 29203

SOIL BORING LOG

PROJECT NAME:	Former Pantry 585	BORING I.D.:	DMW-3
PROJECT NO.:	89.25384.0585	DATE(S) DRILLED:	10/7-8/2008
PROJECT LOCATION:	1502 E. Greenville St, Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Hollow Stem Auger/Air Rotary
		BORING DIAMETER:	8.25" to set 6" casing
CLIENT:	The Pantry Inc.	SAMPLING METHOD/INTERVAL:	Drill cuttings
LOGGED BY:	ATC Associates (JW)	REMARKS:	TD 130 ft ; Screened from 130' to 125'

DESCRIPTIVE LOG (page 4 of 5)

SAMPLE INTERVAL	USCS	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
				91.0	
				92.0	
				93.0	
				94.0	
95		NA		95.0	ROCK (mica and quartz fragments)
				96.0	
				97.0	
				98.0	
				99.0	
				100.0	
				101.0	
				102.0	
				103.0	
				104.0	
105		NA		105.0	ROCK (mica and quartz fragments)
				106.0	
				107.0	
				108.0	
				109.0	
				110.0	
				111.0	
				112.0	
				113.0	
				114.0	
115		NA		115.0	ROCK (mica and quartz fragments)
				116.0	
				117.0	
				118.0	
				119.0	
				120.0	6" outer casing installed to 120 ft.

DRILLING METHODS
SS-SPLIT SPOON
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
GP-GEOPROBE
SPLIT SPOON

GRAPHIC COLUMN
DEPTH TO WATER
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q
Columbia, SC 29203

SOIL BORING LOG

PROJECT NAME:	Former Pantry 585	BORING I.D.:	DMW-3
PROJECT NO.:	89.25384.0585	DATE(S) DRILLED:	10/7-8/2008
PROJECT LOCATION:	1502 E. Greenville St, Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Hollow Stem Auger/Air Rotary
		BORING DIAMETER:	8.25" to set 6" casing
CLIENT:	The Pantry Inc.	SAMPLING METHOD/INTERVAL:	Drill cuttings
LOGGED BY:	ATC Associates (JW)	REMARKS:	TD 130 ft ; Screened from 130' to 125'

DESCRIPTIVE LOG (page 5 of 5)

SAMPLE INTERVAL	USCS	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
				121.0	
				122.0	
				123.0	
				124.0	
125		NA		125.0	ROCK (mica and quartz fragments)
				126.0	
				127.0	
				128.0	
				129.0	
				130.0	
				131.0	
				132.0	
				133.0	
				134.0	Boring terminated at 135 feet...well installed to 135 with 5 feet of screen.
				135.0	
				136.0	
				137.0	
				138.0	
				139.0	
				140.0	
				141.0	
				142.0	
				143.0	
				144.0	
				145.0	
				146.0	
				147.0	
				148.0	
				149.0	
				150.0	

DRILLING METHODS
SS-SPLIT SPOON
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

SAMPLING METHODS
GP-GEOPROBE
SPLIT SPOON

GRAPHIC COLUMN
DEPTH TO WATER
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, SC 29203

DHEC
PROMOTE PROTECT PROSPER

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

DMW-3

1. WELL OWNER INFORMATION:
Name: The Pantry Inc. (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:**
Name: Former Pantry Service Station # 585
Street Address: 1502 East Greenville Street
City: Anderson, SC Zip:
Latitude: NA Longitude: NA

3. PUBLIC SYSTEM NAME: NA **PUBLIC SYSTEM NUMBER:** NA

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from NA ft. to NA ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
0-70 (clay silt some PWR)		
70-135 (bedrock)		
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: DMW-3

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

7. PERMIT NUMBER:

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 10-6-08
135 ft. Date Completed: 10-22-08

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
130 (2") in. to 0 ft. depth
120 (6") in. to 0 ft. depth
Height: Above ☐ Below ☑
Surface NA ft.
Weight NA lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.001/Sch.40 Length: 5'
Set Between: 135 ft. and 130 ft. **NOTE: MULTIPLE SCREENS**
ft. and ft. **USE SECOND SHEET**
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 135 ft. to 127 ft.
Effective size #2, MED Uniformity Coefficient SAND

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 127 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: NA ft. NA direction
Type NA
Well Disinfected ☐ Yes ☑ No Type: NA Amount: NA

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

19. WELL DRILLER: Tommy Bolyard **CERT. NO.:** 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: 704-607-7329 Fax No.: 803-548-2233

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

Signed: Tommy Bolyard Date: 10/16/08
Well Driller
If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

APPENDIX E

Drum Disposal Manifests

MATERIAL MANIFEST

JBR Environmental Services
P. O. Box 4098
Spartanburg, SC 29305

Manifest Document No. D-10063732

Page of

Job No. D 10063732

Emergency Phone Number: (864) 583-2717

GENERATOR INFORMATION

Name: IITC

US EPA ID No.

Street Address: 1502 E. Greenville St, Anderson, SC

Mailing Address: 1100 Lake Drive, Suite G, Columbia SC 29202

Phone No. 704-236-5323

Contact: Jake Whittle

DESCRIPTION OF MATERIALS

	HM	USDOT Proper Shipping Name (Complete All Items for Hazardous Materials)	Hazard Class	UN/NA ID No.	Packing Group	Containers Qty	Containers Type	Total Quantity	Unit Wt./Vol.
a.		Non Haz liquid NOS	/	/	/	2	DM	2	Ea LIQUID
b.		Non Haz Solid NOS				31	DM	31	Ea SOLID
c.								7.43	TONS

ADDITIONAL INFORMATION		ERG No.	JBR Profile Code	Facility Use
a.	Contact Water		AT-0108898	Approved for Disposal
b.	Soil		JB-0807141	/ / /
c.				

GENERATORS CERTIFICATION

This is to certify that the above-described materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that none of the materials described above are a hazardous waste as defined by EPA 40 CFR Part 261 or any applicable state law, and unless specifically identified above, the materials contain less than 1,000 ppm total halogens and do not contain quantifiable levels (2 ppm) of PCBs as defined by EPA 40 CFR Parts 279 and 761.

Printed/Typed Name: Nathan Roberts

Signature:

Mo./Day/Yr. 10/8/08

TRANSPORTER INFORMATION

Transporter: JBR Environmental Services

Address: 210 Alice Street, Spartanburg, SC 29303

Transporter or EPA ID No. SCR000004358 Unit No. 25

Phone 864-583-2717

I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above.

Signature: Shipment Date 10/8/08

I hereby acknowledge that the above-described materials were received from the generator site and were transported to the facility listed below.

Signature: Delivery Date 10/8/08

FACILITY INFORMATION

Facility: JBR Environmental Services

Address: 210 Alice Street, Spartanburg, SC 29303

Facility or EPA ID No. SCR000004358

Phone 864-583-2717

Contact Rex Russell

I hereby acknowledge receipt of the materials covered by this manifest except for any discrepancy noted below.

Signature: Receipt Date 10-8-08

Discrepancies	Routing Codes	Handling Methods
a.	WM-3219	
b.		
c.		

Original - Facility Retain COPY 2 - Return to Generator COPY 3 - Transporter Retain COPY 4 - Generator Retain

MATERIAL MANIFEST

JBR Environmental Services
P. O. Box 4098
Spartanburg, SC 29305

Manifest Document No. D-10063732

Page of

Job No. D-10063732

Emergency Phone Number: (864) 583-2717

GENERATOR INFORMATION

Name:

US EPA ID No.

Street Address: 1502 E Greenville St. Anderson, SC

Mailing Address:

Phone No. 704-236-5323

Contact: Jake Whitt

DESCRIPTION OF MATERIALS

	HM	USDOT Proper Shipping Name (Complete All Items for Hazardous Materials)	Hazard Class	UN/NA ID No.	Packing Group	Containers Qty	Containers Type	Total Quantity	Unit Wt./Vol.
a.		Non Haz Solid NOS				36	DM		Solid
b.		Non Haz Liquid NOS							
c.		HM Yes							

ADDITIONAL INFORMATION		ERG No.	JBR Profile Code	Facility Use
a.	Trucker			
b.	Soil			
c.				

GENERATORS CERTIFICATION

This is to certify that the above-described materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that none of the materials described above are a hazardous waste as defined by EPA 40 CFR Part 261 or any applicable state law, and unless specifically identified above, the materials contain less than 1,000 ppm total halogens and do not contain quantifiable levels (2 ppm) of PCBs as defined by EPA 40 CFR Parts 279 and 761.

Printed/Typed Name: Nat Nan-Roberts

Signature:

Mo./Day/Yr. 10/9/08

TRANSPORTER INFORMATION

Transporter: JBR Environmental Services

Address: 210 Alice Street, Spartanburg, SC 29303

Transporter or EPA ID No.: SCR000004358

Unit No.: 25

Phone: 864-583-2717

I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above.

Signature: Shipment Date: 10/09/08

I hereby acknowledge that the above-described materials were received from the generator site and were transported to the facility listed below.

Signature: Delivery Date: 10/09/08

FACILITY INFORMATION

Facility: JBR Environmental Services

Address: 210 Alice Street, Spartanburg, SC 29303

Facility or EPA ID No.: SCR000004358

Phone: 864-583-2717

Contact: Rex Russell

I hereby acknowledge receipt of the materials covered by this manifest except for any discrepancy noted below.

Signature

Receipt Date

	Discrepancies	Routing Codes	Handling Methods
a.			
b.			
c.			

Original - Facility Retain **COPY 2 - Return to Generator** **COPY 3 - Transporter Retain** **COPY 4 - Generator Retain**

RIAL
IFEST

JBR Environmental Services
P. O. Box 4098
Spartanburg, SC 29305

Manifest Document No. D-10063732
Page of
Job No. D-10063732

Emergency Phone Number: (864) 583-2717

GENERATOR INFORMATION

Name: ATC
US EPA ID No.

Street Address: 1502 E. Greenville
Anderson, SC

Mailing Address: ST. [illegible]

Phone No. 704-236-5323

Contact: Jate Cohi Hle

DESCRIPTION OF MATERIALS

	HM	USDOT Proper Shipping Name (Complete All Items for Hazardous Materials)	Hazard Class	UN/NA ID No.	Packing Group	Containers Qty	Containers Type	Total Quantity	Unit Wt./Vol.
a.		Non Haz liquid	–	–	–	1	DM	1	GALLONS
b.		Non Haz Solid	–	–	–	4	DM	4	SOLID
c.								9.45	TONS

ADDITIONAL INFORMATION		ERG No.	JBR Profile Code	Facility Use
a.	Water		AT-0103888	APPROVED FOR DISPOSAL
b.	Soil		JB-0908147	
c.				

GENERATORS CERTIFICATION

This is to certify that the above-described materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that none of the materials described above are a hazardous waste as defined by EPA 40 CFR Part 261 or any applicable state law, and unless specifically identified above, the materials contain less than 1,000 ppm total halogens and do not contain quantifiable levels (2 ppm) of PCBs as defined by EPA 40 CFR Parts 279 and 761.

Printed/Typed Name: Nathan Roberts
Signature: [signature]
Mo./Day/Yr. 10/14/08

TRANSPORTER INFORMATION

Transporter: JBR Environmental Services
Address: 210 Alice Street, Spartanburg, SC 29303
Transporter or EPA ID No. SCR000004358
Unit No. 24
Phone: 864-583-2717

I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above.
Signature [signature] Shipment Date 10-14-08

I hereby acknowledge that the above-described materials were received from the generator site and were transported to the facility listed below.
Signature [signature] Delivery Date 10-14-08

FACILITY INFORMATION

Facility: JBR Environmental Services
Address: 210 Alice Street, Spartanburg, SC 29303
Facility or EPA ID No. SCR000004358
Phone: 864-583-2717
Contact: Rex Russell

I hereby acknowledge receipt of the materials covered by this manifest except for any discrepancy noted below.
up 12 tons
Signature [signature] Receipt Date 10-14-08

Discrepancies	Routing Codes	Handling Methods
a.	WM-3219	
b.		
c.		

Original - Facility Retain COPY 2 - Return to Generator COPY 3 - Transporter Retain COPY 4 - Generator Retain

MATERIAL MANIFEST

JBR Environmental Services
P. O. Box 4098
Spartanburg, SC 29305

Manifest Document No. D-11033997
Page of
Job No. D-11033997

Emergency Phone Number: (864) 583-2717

GENERATOR INFORMATION

Name: Former Pantry 585

US EPA ID No.

Street Address: 1502 E. Greenville St. Anderson SC.

Mailing Address: 400 NE. Drive Suite Q Columbia SC 29203

Phone No. 704-236-5323

Contact: Jake Whittle

DESCRIPTION OF MATERIALS

	HM	USDOT Proper Shipping Name (Complete All Items for Hazardous Materials)	Hazard Class	UN/NA ID No.	Packing Group	Containers Qty	Containers Type	Total Quantity	Unit Wt./Vol.
a.		Non Haz Solids NOS	/	/	/	10	DM		
b.		Non Haz Liquid NOS				2	DM		
c.									

ADDITIONAL INFORMATION		ERG No.	JBR Profile Code	Facility Use
a.	Soil		CQ6803	APPROVED for Disposal
b.	liquid		AT-0108882	/ / /
c.				

GENERATORS CERTIFICATION

This is to certify that the above -described materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that none of the materials described above are a hazardous waste as defined by EPA 40 CFR Part 261 or any applicable state law, and unless specifically identified above, the materials contain less than 1,000 ppm total halogens and do not contain quantifiable levels (2 ppm) of PCBs as defined by EPA 40 CFR Parts 279 and 761.

Printed/Typed Name | Signature | Mo./Day/Yr.

TRANSPORTER INFORMATION

Transporter: JBR Environmental Services
Address: 210 Alice Street, Spartanburg, SC 29303
Transporter or EPA ID No.: SCR000004358 Unit No. 95
Phone: 864-583-2717

I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above.

Signature: [signature] Shipment Date: 10/31/08

I hereby acknowledge that the above-described materials were received from the generator site and were transported to the facility listed below.

Signature: [signature] Delivery Date: 11/3/08

FACILITY INFORMATION

Facility: JBR Environmental Services
Address: 210 Alice Street, Spartanburg, SC 29303
Facility or EPA ID No.: SCR000004358
Phone: 864-583-2717
Contact: Rex Russell

I hereby acknowledge receipt of the materials covered by this manifest except for any discrepancy noted below.

Signature: [signature] Receipt Date: 11-3-08

Discrepancies	Routing Codes	Handling Methods
a.	WM-32A	
b.	/	/
c.		

Original - Facility Retain | COPY 2 - Return to Generator | COPY 3 - Transporter Retain | COPY 4 - Generator Retain

APPENDIX F

Sieve Test and Grain Size Reports

Project:	Pantry 585	Job No.:	89.25384.0585
Location:	Anderson, SC	Boring No.:	SB/MW-21
Description of Soil:	Tan Sand	Sample No.:	1
Depth of Sample:	43.0 to 45.0	Tested By: GAJ	Reviewed By

#10 Wash

Before Wash		After Wash	
Pan & Dry Soil	710.7	Pan & Dry Soil	612.10
Pan Wt	155.4	Pan	155.40
Dry Soil	555.3	Dry Soil	456.7

Soil Washed	**98.6**	**Percent Passing the #200**	**17.8**	**Percent Retained**	**82.2**

Coarse Aggregate

Sieve Size		Measured Mass(g)	Weight Equivalent Calculated Mass(g)	Cumulative Mass(g)	Cumulative Percent Retained(%)	Cumulative Percent Passing(%)	Diameter of Sieve (mm)
3/8"		0			0.0	100.0	
#4		1.3		1.3	0.2	99.8	4.75
#8		8		9.3	1.7	98.3	
#10		6.00		15.3	2.8	97.2	2.00
#16		21.50		36.8	6.6	93.4	
#30		77.30		114.1	20.5	79.5	
#50		135.30		249.4	44.9	55.1	
#100		199.50		448.9	80.8	19.2	
#200		0.30		449.2	80.9	19.1	0.0075
Pan		7.50		456.7	82.2	17.8	

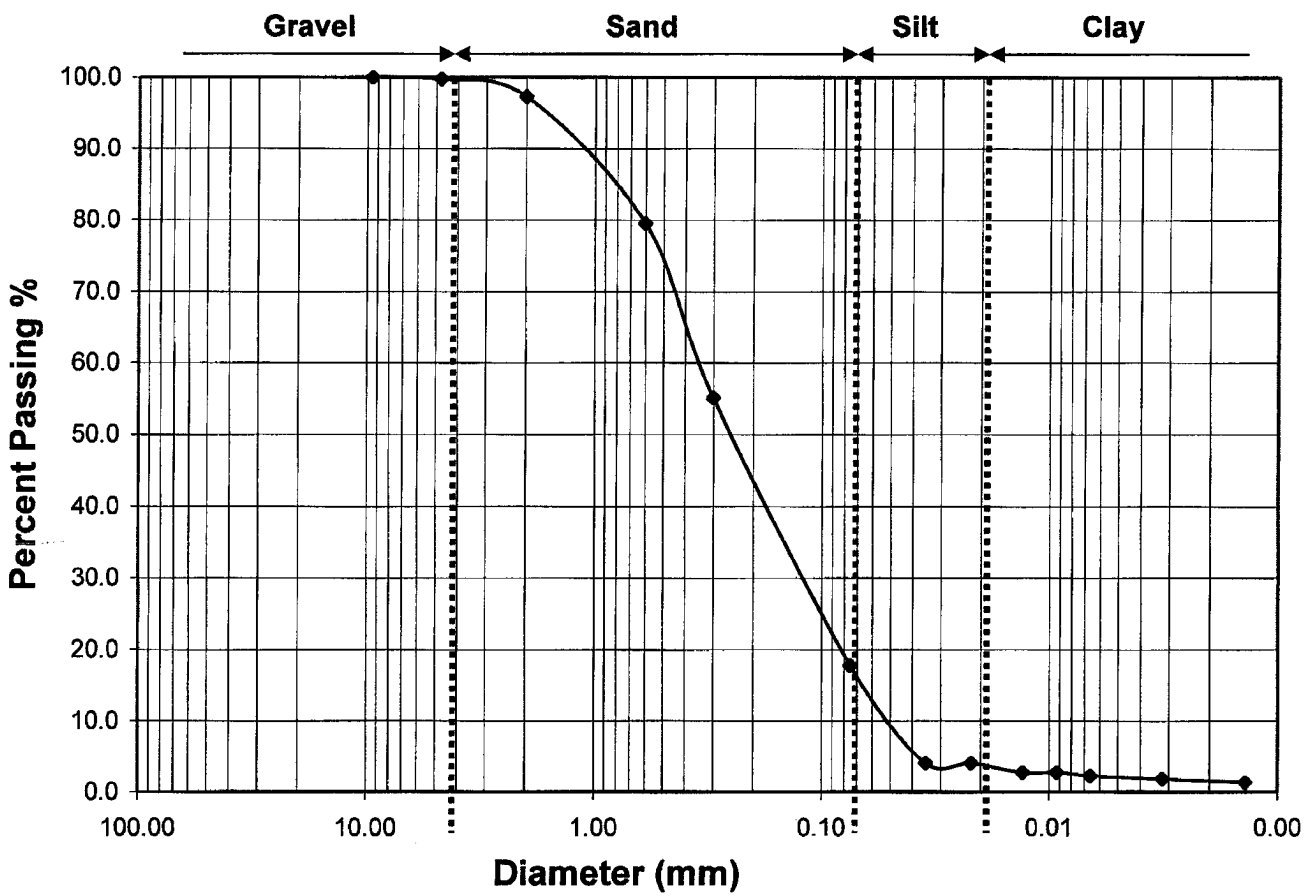
Fine Aggregate

Sample Size, g= 366.1 M = 356

Date	Time	Elapsed Time (minutes)	Hydrometer Reading	Composite Correction	Corrected Reading	Temperature (Deg C)	Effective Depth of Hydrometer (cm)	Value of K	Diameter of Soil Particle (mm)	Percent Suspension (Percent Finer, %)
11/1/2008	9:30	0				73.2				
11/1/2008	9:32	2	1.011	0.002	1.009	73.1	13.9	0.0131865	0.0348	4.06
11/1/2008	9:35	5	1.011	0.002	1.009	73	13.9	0.01320345	0.0220	4.06
11/1/2008	9:45	15	1.008	0.002	1.006	73.1	14.7	0.0131865	0.0131	2.71
11/1/2008	10:00	30	1.008	0.002	1.006	73.1	14.7	0.0131865	0.0092	2.71
11/1/2008	11:00	60	1.007	0.002	1.005	73	15	0.01320345	0.0066	2.26
11/1/2008	2:40	250	1.006	0.002	1.004	73.1	14.7	0.0131865	0.0032	1.80
11/2/2008	9:30	1440	1.005	0.002	1.003	73.3	15	0.01317833	0.0014	1.35

* Assumed Specific Gravity of 2.65

Grain Size Distribution Curve



Pantry 585 SB/MW-21

ATC Project No. 89.25384.0585

Project:	Pantry 585	Job No.:	89.25384.0585
Location:	Anderson, SC	Boring No.:	SB/MW-24
Description of Soil:	Brown Sand with Mica	Sample No.:	2
Depth of Sample (ft bgs):	15.0 to 17.0	Tested By: GAJ	Reviewed By

#10 Wash

Before Wash		After Wash	
Pan & Dry Soil	608.2	Pan & Dry Soil	565.50
Pan Wt	155.98	Pan	155.98
Dry Soil	452.22	Dry Soil	409.52

Soil Washed	42.7	Percent Passing the #200	9.4	Percent Retained	90.6

Coarse Aggregate

Sieve Size		Measured Mass (g)	Weight Retained calculated Mass (g)	Cumulative Mass (g)	Cumulative Percent Retained %	Cumulative Percent Passing %	Diameter of Sieve (mm)
3/8"		0.9	0.9		0.2	100.0	9.50
#4		5.9	6.8		1.5	98.5	4.75
#10		30.20	37		8.2	91.8	2.00
#30		131.80	168.8		37.3	62.7	0.60
#50		113.60	282.4		62.4	37.6	0.30
#100		87.10	369.5		81.7	18.3	0.15
#200		36.00	405.5		89.7	10.3	0.075
Pan		2.50	408		90.2		

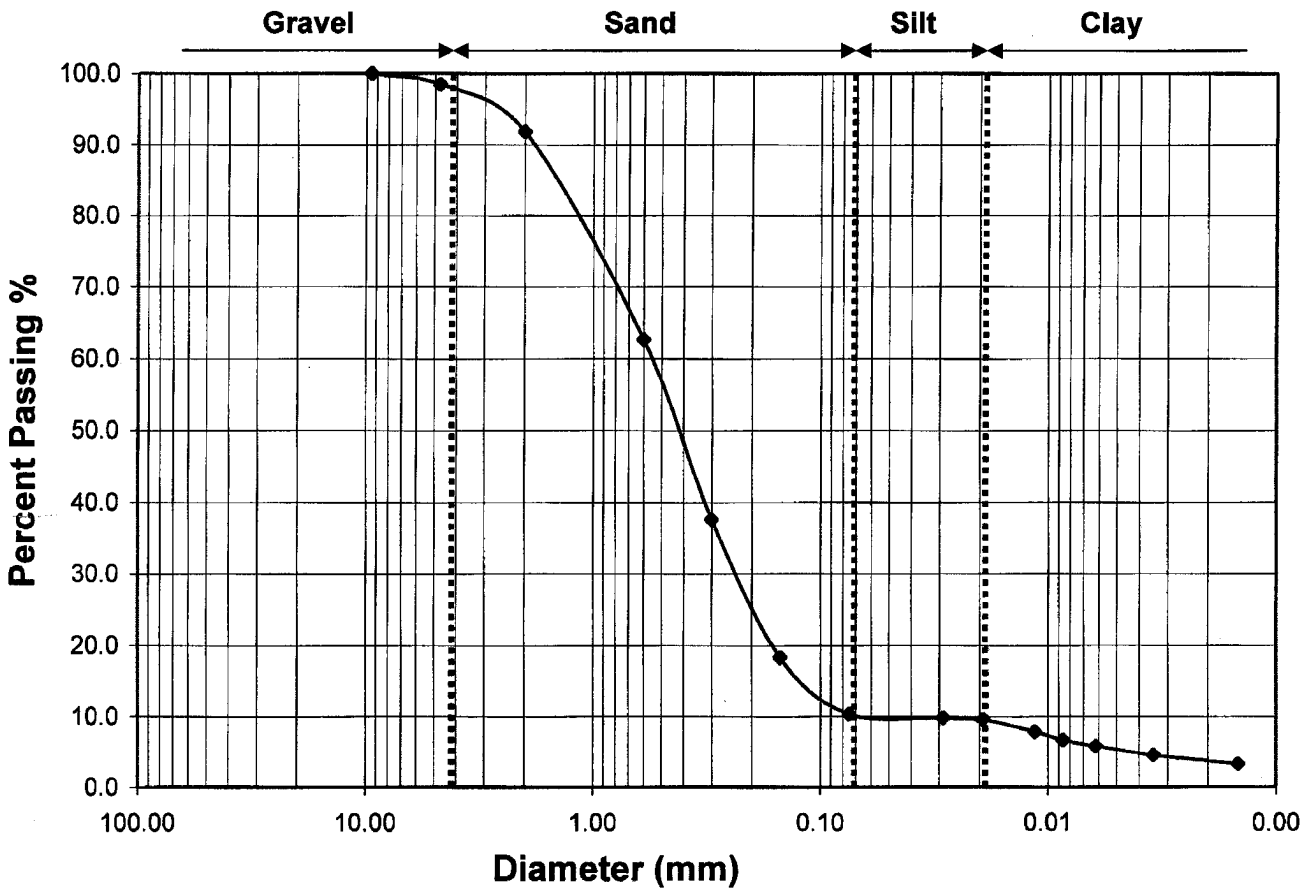
Fine Aggregate

Sample Size, g= 259.4 M = 327.9

Date	Time	Elapsed Time (minutes)	Hydrometer Reading	Correction Correction	Corrected Reading	Temperature (C)	Effective Depth of Hydrometer (L) (cm)	Value of K	Diameter of Soil Particles (mm)	Soil in Suspension (Percent Finer %)
11/19/2008	2:23	0								
11/19/2008	2:25	2	1.025	0.005	1.02	22	9.4	0.01332	0.0289	9.79
11/19/2008	2:28	5	1.0245	0.005	1.0195	21.6	10.35	0.0134	0.0193	9.55
11/19/2008	2:38	15	1.0211	0.005	1.0161	21.3	10.7	0.0134	0.0114	7.88
11/19/2008	2:53	30	1.0187	0.005	1.0137	20.7	11.9	0.01352	0.0086	6.71
11/19/2008	3:23	60	1.0169	0.005	1.0119	20	12.3	0.01365	0.0062	5.83
11/19/2008	6:00	213	1.0142	0.005	1.0092	20.1	13.1	0.01365	0.0034	4.51
11/20/2008	10:00	1173	1.0117	0.005	1.0067	18.6	13.7	0.0139	0.0015	3.28

* Assumed Specific Gravity of 2.65

Grain Size Distribution Curve



Pantry #585 SB/MW-24

ATC Project No. 89.25384.0585

APPENDIX G

Slug Test Reports

SUMMARY OF SLUG TEST FORM

SOUTH CAROLINA DEPT. OF HEALTH AND ENVIRONMENTAL CONTROL (SC DHEC)

SITE DATA

SITE ID NO: *12458* **COUNTY:** *Anderson*

SITE NAME: *Former Pantry 585 - 1502 E. Greenville St.*

SLUG DATA

See Appendix ____ Table ____ Figure ____ for a list of all measurements.

(water level logs, etc.) Complete as appropriate.

Water Level Recovery Data was measured by: ***lly with Water Level Inc***

(Hermit datalogger, Manually w/ Water Level Indicator, etc.) List Method Used.

Complete the following table for each well tested.

***COMPLETE A SECOND SHEET IF MORE WELLS WERE TESTED*

Slug test conducted in well number(s)	MW-21D	MW-24	DMW-3	
Initial Rise/Drawdown in Well (feet)	1.56	1.56	3.16	
Radius of Well Casing (feet)	0.16	0.16	0.16	
Effective radius of well (feet)	0.33	0.33	0.33	
Static saturated aquifer thickness (feet)	36	9	111	
Length of well screen (feet)	5	15	5	
Static height of water column in well (feet)	10.78	10.63	23.81	

CALCULATIONS

See Appendix ____ Table ____ Figure ____ for calculation.

The Method for aquifer calculations was ***Bouwer-Rice*** (ie. Bouwer Rice, Cooper, Etc.)

Calcualted values by well were as follows:

Slug Test Conducted in Well Number(s)	MW-21D	MW-24	DMW-3	
Hydraulic Conductivity (= K ft/min)	0.00109	0.000155	0.0000021	

Average Hydraulic Conductivity (**K**) = 0.0004 (ft/min)
0.5986 (ft/day)
218.49 (ft/year)

Formula:	**V = Ki/n**	**27**
Where	**K = (ft/yr)**	**218**
	i = (ft/ft)	**0.0312**
	n = (%)	**25%**

Thickness of the aquifer used to calculate hydraulic conductivity was ____ feet.

The aquifer is ____ confined ____ semi-confinec **X** water table (Check as apprpriate).

The estimated seepage velocity (**V**) is **27** feet per year based on a hydraulic conductivity of **218** ft/yr, a hydraulic gradient (**i**) of **0.0312** feet per foot , and a porosity (**n**) of ***25%*** percent (%) for ***Silty Sand*** (list type ie, silty sand, clay, etc.)

SUMMARY OF SLUG TEST FORM

Data Set: S:\Enviro\ENVIRONMENTAL\Pantry Sites\Pantry 585\9.2008 Assessment\Slug\MW-21D.aqt
Title: Former Pantry 585
Date: 11/10/08
Time: 15:47:58

PROJECT INFORMATION

Location: Anderson, SC
Test Date: 10/22/08
Test Well: DMW-3

AQUIFER DATA

Saturated Thickness: 36.22 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : MW-21D

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 1.4 ft
Static Water Column Height: 36.22 ft
Casing Radius: 0.083 ft
Wellbore Radius: 0.271 ft
Well Skin Radius: 0.271 ft
Screen Length: 5. ft
Total Well Penetration Depth: 36.22 ft

No. of Observations: 28

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.	1.56	3.5	0.25
0.25	1.4	3.75	0.23
0.5	1.21	4.	0.21
0.75	1.12	4.25	0.18
1.	0.97	4.5	0.16
1.25	0.76	4.75	0.14
1.5	0.67	5.	0.13
1.75	0.62	6.	0.07
2.	0.54	7.	0.04
2.25	0.46	8.	0.02
2.5	0.4	9.	0.01
2.75	0.37	10.	0.01
3.	0.33	11.	0.01
3.25	0.29	12.	0.

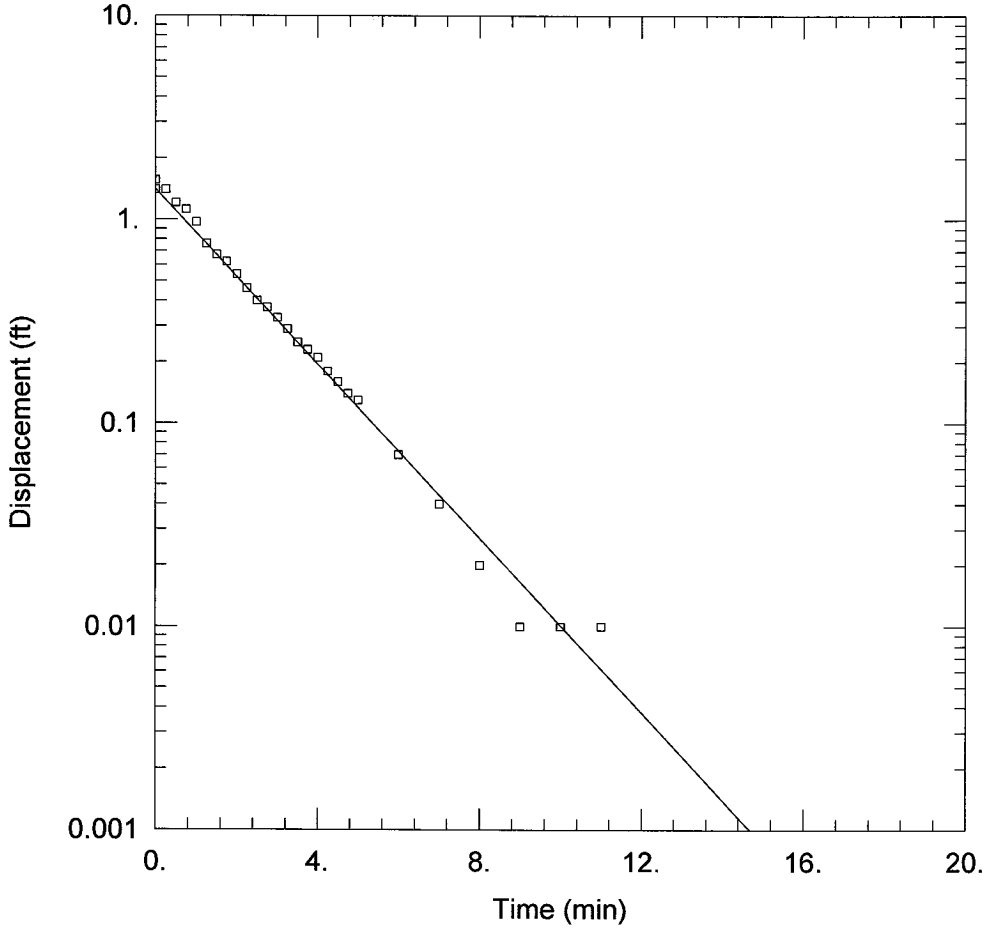
SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
Shape Factor: 3.204

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	1.569	ft/day
y0	1.41	ft



FORMER PANTRY 585

Data Set: S:\Enviro\ENVIRONMENTAL\Pantry Sites\Pantry 585\9.2008 Assessment\Slug\MW-21D.aqt
Date: 11/10/08 Time: 15:47:40

PROJECT INFORMATION

Location: Anderson, SC
Test Well: DMW-3
Test Date: 10/22/08

AQUIFER DATA

Saturated Thickness: 36.22 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-21D)

Initial Displacement: 1.4 ft
Total Well Penetration Depth: 36.22 ft
Casing Radius: 0.083 ft
Static Water Column Height: 36.22 ft
Screen Length: 5. ft
Wellbore Radius: 0.271 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 1.569 ft/day
y0 = 1.41 ft

Data Set: S:\Enviro\ENVIRONMENTAL\Pantry Sites\Pantry 585\9.2008 Assessment\Slug\MW-24.aqt
Title: Pantry 585
Date: 11/10/08
Time: 15:48:35

PROJECT INFORMATION

Location: Anderson, SC
Test Date: 10/22/08
Test Well: MW-24

AQUIFER DATA

Saturated Thickness: 9.37 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : MW-24

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 0.21 ft
Static Water Column Height: 9.37 ft
Casing Radius: 0.083 ft
Wellbore Radius: 0.271 ft
Well Skin Radius: 0.271 ft
Screen Length: 15. ft
Total Well Penetration Depth: 9.37 ft

No. of Observations: 21

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.	1.56	2.75	0.08
0.25	0.21	3.	0.08
0.5	0.12	3.25	0.07
0.75	0.11	3.5	0.06
1.	0.11	3.75	0.06
1.25	0.1	4.	0.05
1.5	0.1	4.25	0.04
1.75	0.1	4.5	0.03
2.	0.09	4.75	0.02
2.25	0.09	5.	0.01
2.5	0.09		

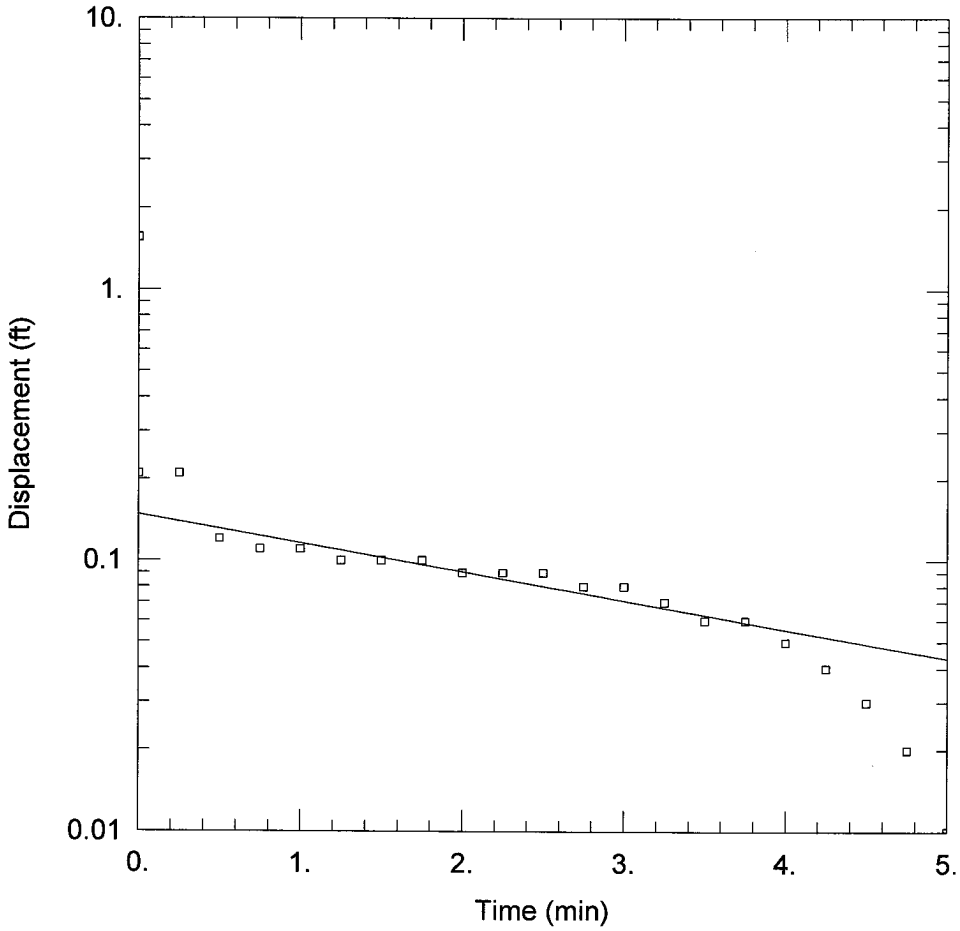
SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
Shape Factor: 2.766

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	0.2238	ft/day
y0	0.1481	ft



PANTRY 585

Data Set: S:\Enviro\ENVIRONMENTAL\Pantry Sites\Pantry 585\9.2008 Assessment\Slug\MW-24.aqt
Date: 11/10/08 Time: 15:48:18

PROJECT INFORMATION

Location: Anderson, SC
Test Well: MW-24
Test Date: 10/22/08

AQUIFER DATA

Saturated Thickness: 9.37 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-24)

Initial Displacement: 0.21 ft
Total Well Penetration Depth: 9.37 ft
Casing Radius: 0.083 ft
Static Water Column Height: 9.37 ft
Screen Length: 15. ft
Wellbore Radius: 0.271 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.2238 ft/day
y0 = 0.1481 ft

Data Set: S:\Enviro\ENVIRONMENTAL\Pantry Sites\Pantry 585\9.2008 Assessment\Slug\DMW-3.aqt
Title: Former Pantry 585
Date: 11/10/08
Time: 15:47:16

PROJECT INFORMATION

Location: Anderson, SC
Test Date: 10/22/08
Test Well: DMW-3

AQUIFER DATA

Saturated Thickness: 111.2 ft
Anisotropy Ratio (Kz/Kr): 1.

SLUG TEST WELL DATA

Test Well: : DMW-3

X Location: 0. ft
Y Location: 0. ft

Initial Displacement: 3.12 ft
Static Water Column Height: 111.2 ft
Casing Radius: 0.083 ft
Wellbore Radius: 0.271 ft
Well Skin Radius: 0.271 ft
Screen Length: 5. ft
Total Well Penetration Depth: 111.2 ft

No. of Observations: 40

Observation Data

Time (min)	Displacement (ft)	Time (min)	Displacement (ft)
0.25	3.16	6.	3.12
0.5	3.14	7.	3.12
0.75	3.13	8.	3.12
1.	3.12	9.	3.11
1.25	3.12	10.	3.11
1.5	3.12	11.	3.11
1.75	3.12	12.	3.11
2.	3.12	13.	3.11
2.25	3.12	14.	3.11
2.5	3.12	15.	3.1
2.75	3.12	20.	3.1
3.	3.12	25.	3.1
3.25	3.12	30.	3.1
3.5	3.12	35.	3.1
3.75	3.12	40.	3.09
4.	3.12	45.	3.09
4.25	3.12	50.	3.08
4.5	3.12	55.	3.07
4.75	3.12	60.	3.06
5.	3.12	65.	3.05

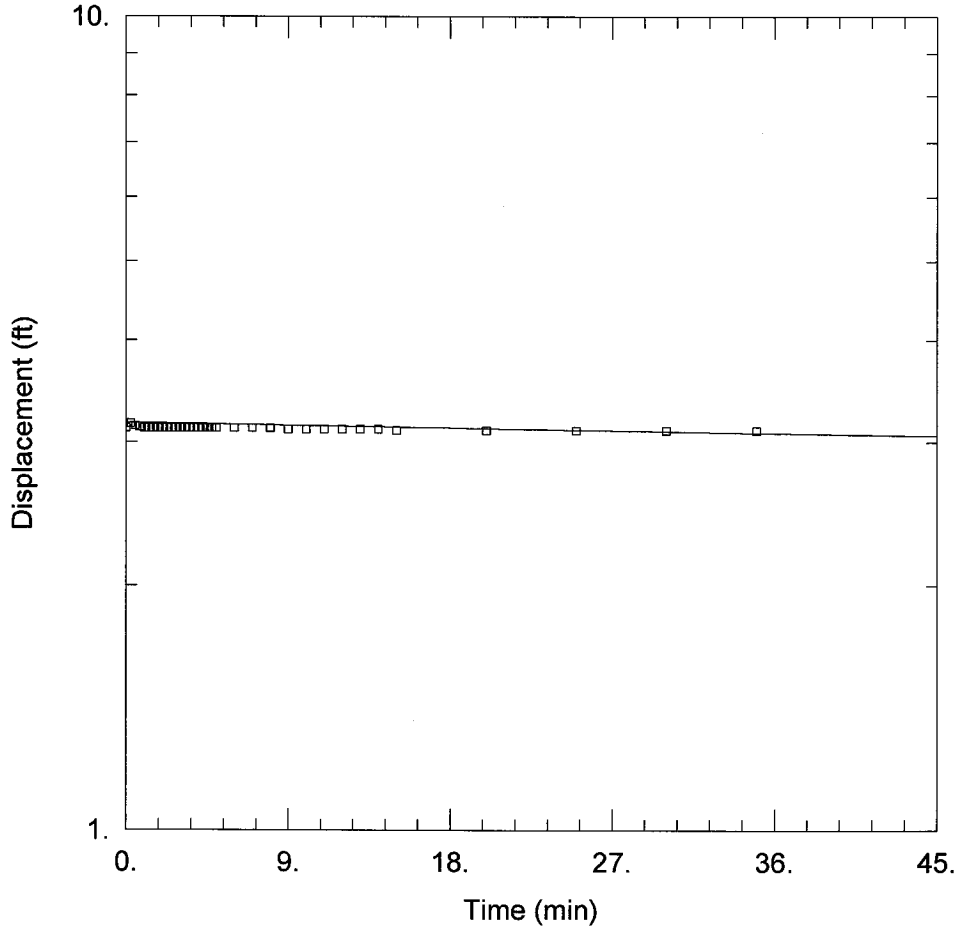
SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
Shape Factor: 3.701

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate



FORMER PANTRY 585

Data Set: S:\Enviro\ENVIRONMENTAL\Pantry Sites\Pantry 585\9.2008 Assessment\Slug\DMW-3.aqt
Date: 11/14/08 Time: 08:45:09

PROJECT INFORMATION

Location: Anderson, SC
Test Well: DMW-3
Test Date: 10/22/08

AQUIFER DATA

Saturated Thickness: 111.2 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (DMW-3)

Initial Displacement: 3.12 ft
Total Well Penetration Depth: 111.2 ft
Casing Radius: 0.083 ft
Static Water Column Height: 111.2 ft
Screen Length: 5. ft
Wellbore Radius: 0.271 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.002971 ft/day
y0 = 3.168 ft

APPENDIX H

Groundwater Sampling Field Measurement Forms

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 10/16/08

Field Personnel: JAKE W/ ROY G.

General Weather Conditions: SUNNY + COOL 45° - 65°

Ambient Air Temperature: " °C

Quality Assurance

CHECK CAL AT OFFICE PRIOR TO USE

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: FORMER PANTRY 585

Site ID#: Monitoring Well # MW-1

Water Supply Well Public Private

Monitoring Well Diameter (D): .163 feet (2 INCH)

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: — feet
Depth to Free Product (DFP) — feet
Depth to Ground Water (DGW) 13.20 feet
Total Well Depth (TWD) 25 feet
Length of the water column (LWC=TWD-DGW) 11.8 feet
1 casing volume (CV=LWC X C)= 11.8 X .163 = 1.92 gals
3 casing volume (3 X CV)= _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)								
pH (s.u.)								
Specific Conductivity (µmhos/cm)								
Water Temperature (°C)								
Dissolved Oxygen								
PID readings, if required								

Remarks: No Purge Water Brackets Screen.

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 10/22/08
Field Personnel: JAKE W/ ROY G.
General Weather Conditions: SUNNY + COOL 45° - 65°
Ambient Air Temperature: " °C

Quality Assurance
CHECK CAL AT OFFICE PRIOR TO USE

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: FORMER PANTRY 585
Site ID#: Monitoring Well # MW2
Water Supply Well Public Private

Monitoring Well Diameter (D): .163 feet (2 INCH)

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: — feet
Depth to Free Product (DFP) — feet
Depth to Ground Water (DGW) 12.58 feet
Total Well Depth (TWD) 20 feet
Length of the water column (LWC=TWD-DGW) 7.42 feet
1 casing volume (CV=LWC X C)= 7.42 X .163 = 1.2 gals
3 casing volume (3 X CV)= _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)								
pH (s.u.)								
Specific Conductivity (µmhos/cm)								
Water Temperature (°C)								
Dissolved Oxygen								
PID readings, if required								

Remarks: No purge well water Brackets screen

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 10/22/08

Field Personnel: JAKE W/ ROY G.

General Weather Conditions: SUNNY + COOL 45° - 65°

Ambient Air Temperature: " °C

Quality Assurance

CHECK CAL AT OFFICE BACK TO USE

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: FORMER PANTRY 585

Site ID#: Monitoring Well # MW-3

Water Supply Well Public Private

Monitoring Well Diameter (D): .163 feet (2 INCH)

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: — feet
Depth to Free Product (DFP) — feet
Depth to Ground Water (DGW) 9.96 feet
Total Well Depth (TWD) 15 feet
Length of the water column (LWC=TWD-DGW) 5.04 feet
1 casing volume (CV=LWC X C)= 5.04 X .163 = 0.82 gals
3 casing volume (3 X CV)= _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)								
pH (s.u.)								
Specific Conductivity (µmhos/cm)								
Water Temperature (°C)								
Dissolved Oxygen								
PID readings, if required								

Remarks: No purge water Brackets screen.

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 10/16/08
Field Personnel: JAKE W/ ROY G.
General Weather Conditions: SUNNY + COOL 45° - 65°
Ambient Air Temperature: " °C

Quality Assurance
CHECK CAL AT OFFICE BACK TO USE

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: FORMER PANTRY 585
Site ID#: Monitoring Well # MW-4
Water Supply Well Public Private

Monitoring Well Diameter (D): .163 feet (2 INCH)

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: — feet
Depth to Free Product (DFP) — feet
Depth to Ground Water (DGW) 10.61 feet
Total Well Depth (TWD) 15 feet
Length of the water column (LWC=TWD-DGW) 4.39 feet
1 casing volume (CV=LWC X C)= 4.39 X .163 =.072 gals
3 casing volume (3 X CV)= _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)								
pH (s.u.)								
Specific Conductivity (µmhos/cm)								
Water Temperature (°C)								
Dissolved Oxygen								
PID readings, if required								

Remarks: No purge Well Water Brackets Screen

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 10/16/08
Field Personnel: JAKE W/ ROY G.
General Weather Conditions: SUNNY + COOL 45° - 65°
Ambient Air Temperature: " °C

Quality Assurance
CHECK CAL AT OFFICE PRIOR TO USE

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: FORMER PANTRY 585
Site ID#: Monitoring Well # MW-S
Water Supply Well Public Private

Monitoring Well Diameter (D): .163 feet (2 INCH)

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: 0.76 feet
Depth to Free Product (DFP) 12.89 feet
Depth to Ground Water (DGW) 13.65 feet
Total Well Depth (TWD) 15 feet
Length of the water column (LWC=TWD-DGW) 1.35 feet
1 casing volume (CV=LWC X C)= 1.35 X .163 = 0.22 gals
3 casing volume (3 X CV)= _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)								
pH (s.u.)								
Specific Conductivity (µmhos/cm)								
Water Temperature (°C)								
Dissolved Oxygen								
PID readings, if required								

Remarks: No purge required free product.

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 10/22/08
Field Personnel: JAKE W/ ROY G.
General Weather Conditions: SUNNY + COOL 45° - 65°
Ambient Air Temperature: " °C

Quality Assurance
CHECK CAL AT OFFICE BACK TO USE

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: FORMER PANTRY 585
Site ID#: Monitoring Well # MW 6
Water Supply Well Public Private

Monitoring Well Diameter (D): .163 feet (2 INCH)

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: — feet
Depth to Free Product (DFP) — feet
Depth to Ground Water (DGW) 13.88 feet
Total Well Depth (TWD) 18 feet
Length of the water column (LWC=TWD-DGW) 4.12 feet
1 casing volume (CV=LWC X C)= 4.12 X .163 = 0.67 gals
3 casing volume (3 X CV)= _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)								
pH (s.u.)								
Specific Conductivity (µmhos/cm)								
Water Temperature (°C)								
Dissolved Oxygen								
PID readings, if required								

Remarks: No purge well water Brackets screen.

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 10/23/08
Field Personnel: JAKE W/ ROY G.
General Weather Conditions: SUNNY + COOL 45° - 65°
Ambient Air Temperature: " °C

Quality Assurance
CHECK CAL AT OFFICE PRIOR TO USE

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: FORMER PANTRY 585
Site ID#: Monitoring Well # MW-7
Water Supply Well Public Private

Monitoring Well Diameter (D): .163 feet (2 INCH)

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: — feet
Depth to Free Product (DFP) — feet
Depth to Ground Water (DGW) 11.06 feet
Total Well Depth (TWD) 15 feet
Length of the water column (LWC=TWD-DGW) 3.94 feet
1 casing volume (CV=LWC X C)= 3.94 X .163 = 0.64 gals
3 casing volume (3 X CV)= _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)								
pH (s.u.)								
Specific Conductivity (µmhos/cm)								
Water Temperature (°C)								
Dissolved Oxygen								
PID readings, if required								

Remarks: No purge Well water brackets Screen.

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 10/16/08
Field Personnel: JAKE W/ ROY G.
General Weather Conditions: SUNNY + COOL 45° - 65°
Ambient Air Temperature: " °C

Quality Assurance
CHECK CAL AT OFFICE PRIOR TO USE

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: FORMER PANTRY 585
Site ID#: Monitoring Well # MW8
Water Supply Well Public Private

Monitoring Well Diameter (D): .163 feet (2 INCH)

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: 0.57 feet
Depth to Free Product (DFP) 11.28 feet
Depth to Ground Water (DGW) 11.85 feet
Total Well Depth (TWD) 17 feet
Length of the water column (LWC=TWD-DGW) 5.15 feet
1 casing volume (CV=LWC X C)= 5.15 X .163 = 0.83 gals
3 casing volume (3 X CV)= _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)								
pH (s.u.)								
Specific Conductivity (µmhos/cm)								
Water Temperature (°C)								
Dissolved Oxygen								
PID readings, if required								

Remarks: Free Product No purge required.

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 10/16/08
Field Personnel: JAKE W/ ROY G.
General Weather Conditions: SUNNY + COOL 45° - 65°
Ambient Air Temperature: " °C

Quality Assurance
CHECK CAL AT OFFICE PRIOR TO USE

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: FORMER PANTRY 585
Site ID#: Monitoring Well # MW9
Water Supply Well Public Private

Monitoring Well Diameter (D): .163 feet (2 INCH)

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: .91 feet
Depth to Free Product (DFP) 12.59 feet
Depth to Ground Water (DGW) 13.50 feet
Total Well Depth (TWD) 17 feet
Length of the water column (LWC=TWD-DGW) 3.5 feet
1 casing volume (CV=LWC X C)= 3.5 X .163 = .57 gals
3 casing volume (3 X CV)= _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)								
pH (s.u.)								
Specific Conductivity (µmhos/cm)								
Water Temperature (°C)								
Dissolved Oxygen								
PID readings, if required								

Remarks: Free product No purge required

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 10/22/08
Field Personnel: JAKE W/ ROY G.
General Weather Conditions: SUNNY + COOL 45° - 65°
Ambient Air Temperature: " °C

Quality Assurance
CHECK CAL AT OFFICE BACK TO USE

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: FORMER PANTRY 585
Site ID#:
Monitoring Well # MW10
Water Supply Well Public Private

Monitoring Well Diameter (D): .163 feet (2 INCH)

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: 1.64 feet
Depth to Free Product (DFP) 12.43 feet
Depth to Ground Water (DGW) 14.07 feet
Total Well Depth (TWD) 17 feet
Length of the water column (LWC=TWD-DGW) 2.93 feet
1 casing volume (CV=LWC X C)= 2.93 X .163 = .47 gals
3 casing volume (3 X CV)= _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)								
pH (s.u.)								
Specific Conductivity (µmhos/cm)								
Water Temperature (°C)								
Dissolved Oxygen								
PID readings, if required								

Remarks: No Purge free product.

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 10/22/08
Field Personnel: JAKE W/ ROY G.
General Weather Conditions: SUNNY + COOL 45° - 65°
Ambient Air Temperature: " °C

Quality Assurance
CHECK CAL AT OFFICE PRIOR TO USE

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: FORMER PANTRY 585
Site ID#: Monitoring Well # MW-1
Water Supply Well Public Private

Monitoring Well Diameter (D): .163 feet (2 INCH)

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: 0.45 feet
Depth to Free Product (DFP) 13.07 feet
Depth to Ground Water (DGW) 13.52 feet
Total Well Depth (TWD) 17 feet
Length of the water column (LWC=TWD-DGW) 3.48 feet
1 casing volume (CV=LWC X C)= 3.48 X .163 = .57 gals
3 casing volume (3 X CV)= _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)								
pH (s.u.)								
Specific Conductivity (µmhos/cm)								
Water Temperature (°C)								
Dissolved Oxygen								
PID readings, if required								

Remarks: No purge required Free Product

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 10/16/08
Field Personnel: JAKE W/ ROY G.
General Weather Conditions: SUNNY + COOL 45° - 65°
Ambient Air Temperature: " °C

Quality Assurance
CHECK CAL AT OFFICE PRIOR TO USE

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: FORMER PANTRY 585
Site ID#: Monitoring Well # MW 12
Water Supply Well Public Private

Monitoring Well Diameter (D): .163 feet (2 INCH)

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: — feet
Depth to Free Product (DFP) — feet
Depth to Ground Water (DGW) 11.82 feet
Total Well Depth (TWD) 17 feet
Length of the water column (LWC=TWD-DGW) 5.18 feet
1 casing volume (CV=LWC X C)= 5.18 X .163 = .84 gals
3 casing volume (3 X CV)= _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)								
pH (s.u.)								
Specific Conductivity (µmhos/cm)								
Water Temperature (°C)								
Dissolved Oxygen								
PID readings, if required								

Remarks: No Purge Well Water Brackets screen

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 10/22/08
Field Personnel: JAKE W/ ROY G.
General Weather Conditions: SUNNY + COOL 45° - 65°
Ambient Air Temperature: " °C

Quality Assurance
CHECK CAL AT OFFICE PRIOR TO USE

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: FORMER PANTRY 585
Site ID#: Monitoring Well # MW13
Water Supply Well Public Private

Monitoring Well Diameter (D): .163 feet (2 INCH)

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: — feet
Depth to Free Product (DFP) — feet
Depth to Ground Water (DGW) 10.13 feet
Total Well Depth (TWD) 13 feet
Length of the water column (LWC=TWD-DGW) 2.87 feet
1 casing volume (CV=LWC X C)= 2.87 X .163 = .46 gals
3 casing volume (3 X CV)= _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)								
pH (s.u.)								
Specific Conductivity (µmhos/cm)								
Water Temperature (°C)								
Dissolved Oxygen								
PID readings, if required								

Remarks: No purge existing well

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 10/22/08
Field Personnel: JAKE W/ ROY G.
General Weather Conditions: SUNNY + COOL 45° - 65°
Ambient Air Temperature: " °C

Quality Assurance
CHECK CAL AT OFFICE PRIOR TO USE

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: FORMER PANTRY 585
Site ID#: Monitoring Well # MW 14
Water Supply Well Public Private

Monitoring Well Diameter (D): .163 feet (2 INCH)

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: — feet
Depth to Free Product (DFP) — feet
Depth to Ground Water (DGW) 15.32 feet
Total Well Depth (TWD) 25. feet
Length of the water column (LWC=TWD-DGW) 9.68 feet
1 casing volume (CV=LWC X C)= 9.68 X _____ = 1.58 gals
3 casing volume (3 X CV)= 4.7 gals (standard purge volume)

Total Volume of Water Purged Before Sampling ≈5 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		11:00	11:01	11:02				
pH (s.u.)		5.71	5.72	5.62	5.52	5.48		
Specific Conductivity (µmhos/cm)		0.146	0.145	0.145	0.142	0.139		
Water Temperature (°C)		20.48	20.42	20.45	20.56	20.51		
Dissolved Oxygen		6.50	6.76	6.80	6.87	6.69		
~~PID readings, if required~~ ORP		178.5	178.2	178.6	179.2	179.1		

Remarks: Purge well new install

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 10/22/08
Field Personnel: JAKE W/ ROY G.
General Weather Conditions: SUNNY + COOL 45° - 65°
Ambient Air Temperature: " °C

Quality Assurance
CHECK CAL AT OFFICE BACK TO USE

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: FORMER PANTRY 585
Site ID#:
Monitoring Well # MW-1S
Water Supply Well Public Private

Monitoring Well Diameter (D): .163 feet (2 INCH)

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: — feet
Depth to Free Product (DFP) — feet
Depth to Ground Water (DGW) 12.83 feet
Total Well Depth (TWD) 25.0 feet
Length of the water column (LWC=TWD-DGW) 12.17 feet
1 casing volume (CV=LWC X C)= 12.17 X .163 = 1.98 gals
3 casing volume (3 X CV)= 5.9 gals (standard purge volume)

Total Volume of Water Purged Before Sampling ≈6 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)								
pH (s.u.)		5.66	5.60	5.62				
Specific Conductivity (µmhos/cm)		0.073	0.073	0.072				
Water Temperature (°C)		18.64	18.60	18.68				
Dissolved Oxygen		7.33	7.51	7.45				
~~PID readings, if required~~ ORP		153.0	156.1	155.0				

Remarks: Purge well New install

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 10/16/08
Field Personnel: JAKE W/ ROY G.
General Weather Conditions: SUNNY + COOL 45° - 65°
Ambient Air Temperature: " °C

Quality Assurance
CHECK CAL AT OFFICE PRIOR TO USE

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: FORMER PANTRY 585
Site ID#:
Monitoring Well # MW-16
Water Supply Well Public Private

Monitoring Well Diameter (D): .163 feet (2 INCH)

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: — feet
Depth to Free Product (DFP) — feet
Depth to Ground Water (DGW) 13.31 feet
Total Well Depth (TWD) 20 feet
Length of the water column (LWC=TWD-DGW) 6.69 feet
1 casing volume (CV=LWC X C)= 6.69 X .163 = 1.09 gals
3 casing volume (3 X CV)= 3.2 gals (standard purge volume)

Total Volume of Water Purged Before Sampling ≈4 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		1115	1116	1117				
pH (s.u.)		8.67	8.50	7.38				
Specific Conductivity (µmhos/cm)		0.147	0.145	0.108				
Water Temperature (°C)		25.65	24.10	23.10				
Dissolved Oxygen		6.56	5.91	5.84				
~~PID readings, if required~~ ORP		47.1	56.1	102.4				

Remarks: Purge well New install

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 10/22/08
Field Personnel: JAKE W/ ROY S.
General Weather Conditions: SUNNY + COOL 45° - 65°
Ambient Air Temperature: " °C

Quality Assurance
CHECK CAL AT OFFICE BEFORE TO USE

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: FORMER PANTRY 585
Site ID#:
Monitoring Well # MW 17
Water Supply Well Public Private

Monitoring Well Diameter (D): .163 feet (2 INCH)

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: 0.6 feet
Depth to Free Product (DFP) 13.45 feet
Depth to Ground Water (DGW) 14.05 feet
Total Well Depth (TWD) 20 feet
Length of the water column (LWC=TWD-DGW) 5.95 feet
1 casing volume (CV=LWC X C)= 5.95 X .163 = 0.96 gals
3 casing volume (3 X CV)= 2.9 gals (standard purge volume)

Total Volume of Water Purged Before Sampling ~~[illegible]~~ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)								
pH (s.u.)								
Specific Conductivity (µmhos/cm)								
Water Temperature (°C)								
Dissolved Oxygen								
PID readings, if required								

Remarks: No purge required free product.

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 10/16/08
Field Personnel: JAKE W/ ROY G.
General Weather Conditions: SUNNY + COOL 45° - 65°
Ambient Air Temperature: " °C

Quality Assurance
CHECK CAL AT OFFICE BACK TO USE

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: FORMER PANTRY 585
Site ID#: Monitoring Well # MW-18D
Water Supply Well Public Private

Monitoring Well Diameter (D): .163 feet (2 INCH)

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: — feet
Depth to Free Product (DFP) — feet
Depth to Ground Water (DGW) 10.82 feet
Total Well Depth (TWD) 80 feet
Length of the water column (LWC=TWD-DGW) 69.18 feet
1 casing volume (CV=LWC X C)= 69.18 X .163 = 11.28 gals
3 casing volume (3 X CV)= 33.8 gals (standard purge volume)

Total Volume of Water Purged Before Sampling ≈ 34 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		1030	1031	1032				
pH (s.u.)		5.82	6.84	8.25				
Specific Conductivity (µmhos/cm)		0.204	0.204	0.210				
Water Temperature (°C)		25.03	25.69	25.68				
Dissolved Oxygen		6.42	5.68	3.45				
~~PID readings, if required~~ ORP		10.6	10.7	10.5				

Remarks: Purge well New install

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 10/16/08
Field Personnel: JAKE W/ ROY G.
General Weather Conditions: SUNNY + COOL 45° - 65°
Ambient Air Temperature: " °C

Quality Assurance
CHECK CAL AT OFFICE BACK TO USE

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: FORMER PANTRY 585
Site ID#:
Monitoring Well # MW-19D
Water Supply Well Public Private

Monitoring Well Diameter (D): .163 feet (2 INCH)

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: — feet
Depth to Free Product (DFP) — feet
Depth to Ground Water (DGW) 15.82 feet
Total Well Depth (TWD) 47 feet
Length of the water column (LWC=TWD-DGW) 31.18 feet
1 casing volume (CV=LWC X C)= 31.18 X .163 = 5.08 gals
3 casing volume (3 X CV)= 15.2 gals (standard purge volume)

Total Volume of Water Purged Before Sampling ≈16 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		1215	1216	1217				
pH (s.u.)		9.36	9.88	9.84				
Specific Conductivity (µmhos/cm)		1.647	1.685	1.736				
Water Temperature (°C)		26.27	26.47	22.87				
Dissolved Oxygen		6.39	6.01	9.47				
~~PID readings, if required~~ ORP		18.0	-4.7	4.26				

Remarks: Purge Well New install

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 10/16/08
Field Personnel: JAKE W/ ROY G.
General Weather Conditions: SUNNY + COOL 45° - 65°
Ambient Air Temperature: " °C

Quality Assurance
CHECK CAL AT OFFICE PRIOR TO USE

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: FORMER PANTRY 585
Site ID#: Monitoring Well # MW201
Water Supply Well Public Private

Monitoring Well Diameter (D): .163 feet (2 INCH)

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: — feet
Depth to Free Product (DFP) — feet
Depth to Ground Water (DGW) 12.30 feet
Total Well Depth (TWD) 47 feet
Length of the water column (LWC=TWD-DGW) 34.70 feet
1 casing volume (CV=LWC X C)= 34.70 X .163 = 5.7 gals
3 casing volume (3 X CV)= 17 gals (standard purge volume)

Total Volume of Water Purged Before Sampling ≈17 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		9:45	9:46	9:47				
pH (s.u.)		7.76	7.67	7.61				
Specific Conductivity (µmhos/cm)		0.174	0.177	0.145				
Water Temperature (°C)		26.93	26.95	25.36				
Dissolved Oxygen		1.73	1.42	3.83				
~~PID readings, if required~~ ORP		102.0	114.2	111.3				

Remarks: Purge well New install

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 10/16/08
Field Personnel: JAKE W/ ROY G.
General Weather Conditions: SUNNY + COOL 45° - 65°
Ambient Air Temperature: " °C

Quality Assurance
CHECK CAL AT OFFICE BACK TO USE

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: FORMER PANTRY 585
Site ID#: Monitoring Well # MW21D
Water Supply Well Public Private

Monitoring Well Diameter (D): .163 feet (2 INCH)

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: — feet
Depth to Free Product (DFP) — feet
Depth to Ground Water (DGW) 10.20 feet
Total Well Depth (TWD) 47 feet
Length of the water column (LWC=TWD-DGW) 36.50 feet
1 casing volume (CV=LWC X C)= 36.8 X .163 = 5.99 gals
3 casing volume (3 X CV)= 17.9 gals (standard purge volume)

Total Volume of Water Purged Before Sampling ≈ 18 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		10:45	10:46	10:47				
pH (s.u.)		8.38	8.31	7.98				
Specific Conductivity (µmhos/cm)		0.140	0.142	0.124				
Water Temperature (°C)		24.02	24.07	22.78				
Dissolved Oxygen		3.07	2.98	3.27				
~~PID~~ readings, if required ORP		95.2	94.5	88.7				

Remarks: Purge Well New install.

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 10/23/08
Field Personnel: JAKE W/ ROY G.
General Weather Conditions: SUNNY + COOL 45° - 65°
Ambient Air Temperature: " °C

Quality Assurance
CHECK CAL AT OFFICE BACK TO USE

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: FORMER PANTRY 585
Site ID#: Monitoring Well # MW-22D
Water Supply Well Public Private

Monitoring Well Diameter (D): .163 feet (2 INCH)

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: — feet
Depth to Free Product (DFP) — feet
Depth to Ground Water (DGW) 10.23 feet
Total Well Depth (TWD) 47 feet
Length of the water column (LWC=TWD-DGW) 36.77 feet
1 casing volume (CV=LWC X C)= 36.77 X .163 = 5.99 gals
3 casing volume (3 X CV)= 17.98 gals (standard purge volume)

Total Volume of Water Purged Before Sampling ≈18 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		1345	1346	1347				
pH (s.u.)		6.90	6.84	6.81				
Specific Conductivity (µmhos/cm)		0.166	0.167	0.187				
Water Temperature (°C)		34.08	34.63	29.79				
Dissolved Oxygen		3.08	3.00	3.62				
~~PID readings, if~~ required ORP		144.8	140.1	139.7				

Remarks: Purge Well New install

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 10/16/08
Field Personnel: JAKE W/ ROY G.
General Weather Conditions: SUNNY + COOL 45° - 65°
Ambient Air Temperature: " °C

Quality Assurance
CHECK CAL AT OFFICE BEFORE TO USE

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: FORMER PANTRY 585
Site ID#: Monitoring Well # MW 23
Water Supply Well Public Private

Monitoring Well Diameter (D): .163 feet (2 INCH)

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: — feet
Depth to Free Product (DFP) — feet
Depth to Ground Water (DGW) 10.01 feet
Total Well Depth (TWD) 20 feet
Length of the water column (LWC=TWD-DGW) 9.99 feet
1 casing volume (CV=LWC X C)= 9.99 X .163 = 1.62 gals
3 casing volume (3 X CV)= 4.8 gals (standard purge volume)

Total Volume of Water Purged Before Sampling ≈ 5 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		1015	1016	1017				
pH (s.u.)		6.81	6.74	6.82				
Specific Conductivity (µmhos/cm)		0.434	0.434	0.396				
Water Temperature (°C)		26.89	27.01	24.15				
Dissolved Oxygen		1.21	0.98	4.01				
PID ~~readings, if required~~ ORP		35.6	36.5	-6.9				

Remarks: Purge Well New install

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 10/16/08
Field Personnel: JAKE W/ ROY G.
General Weather Conditions: SUNNY + COOL 45° - 65°
Ambient Air Temperature: " °C

Quality Assurance
CHECK CAL AT OFFICE PRIOR TO USE

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: FORMER PANTRY 585
Site ID#:
Monitoring Well # MW 24
Water Supply Well Public Private

Monitoring Well Diameter (D): .163 feet (2 INCH)

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:	--	feet
Depth to Free Product (DFP)	—	feet
Depth to Ground Water (DGW)	10.51	feet
Total Well Depth (TWD)	20	feet
Length of the water column (LWC=TWD-DGW)	9.49	feet

1 casing volume (CV=LWC X C)= 9.49 X .163 = 1.54 gals
3 casing volume (3 X CV)= 4.6 gals (standard purge volume)

Total Volume of Water Purged Before Sampling ≈5 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		1000	1001	1002				
pH (s.u.)		6.80	6.80	7.29				
Specific Conductivity (µmhos/cm)		0.017	0.017	0.189				
Water Temperature (°C)		24.72	24.43	25.73				
Dissolved Oxygen		5.47	5.59	5.01				
~~PID readings, if required~~ ORP		167.4	168.9	88.3				

Remarks: Screen Brackets water and New install

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 10/22/08
Field Personnel: JAKE W/ ROY G.
General Weather Conditions: SUNNY + COOL 45° - 65°
Ambient Air Temperature: " °C

Quality Assurance
CHECK CAL AT OFFICE PRIOR TO USE

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: FORMER PANTRY 585
Site ID#: Monitoring Well # MW2S
Water Supply Well Public Private

Monitoring Well Diameter (D): .163 feet (2 INCH)

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:	—	feet
Depth to Free Product (DFP)	—	feet
Depth to Ground Water (DGW)	13.22	feet
Total Well Depth (TWD)	20	feet
Length of the water column (LWC=TWD-DGW)	6.78	feet

1 casing volume (CV=LWC X C)= 6.78 X .163 = 1.10 gals
3 casing volume (3 X CV)= 3.3 gals (standard purge volume)

Total Volume of Water Purged Before Sampling ≈4 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		1300	1301	1302				
pH (s.u.)		7.98	7.81	7.13				
Specific Conductivity (µmhos/cm)		0.134	0.140	0.129				
Water Temperature (°C)		24.55	24.57	23.80				
Dissolved Oxygen		3.60	3.48	4.84				
~~PID readings, if required~~ ORP		187.85	171.37	148.12				

Remarks: well Water Brackets Screen. and New install

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 10/23/08
Field Personnel: JAKE W/ ROY G.
General Weather Conditions: SUNNY + COOL 45° - 65°
Ambient Air Temperature: " °C

Quality Assurance
CHECK CAL AT OFFICE PRIOR TO USE

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: FORMER PANTRY 585
Site ID#: Monitoring Well # MW 26
Water Supply Well Public Private

Monitoring Well Diameter (D): .163 feet (2 INCH)

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: — feet
Depth to Free Product (DFP) — feet
Depth to Ground Water (DGW) 12.30 feet
Total Well Depth (TWD) 20 feet
Length of the water column (LWC=TWD-DGW) 7.7 feet
1 casing volume (CV=LWC X C)= 7.7 X .163 = 1.25 gals
3 casing volume (3 X CV)= 3.76 gals (standard purge volume)

Total Volume of Water Purged Before Sampling ≈4 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		1400	1401	1402				
pH (s.u.)		7.25	7.22	7.06				
Specific Conductivity (µmhos/cm)		0.276	0.275	0.232				
Water Temperature (°C)		26.47	26.46	26.52				
Dissolved Oxygen		2.56	2.50	2.58				
~~PID readings, if required~~ ORP		1.561	155.8	148.3				

Remarks: Well Water Brackets Screen and New install

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy):

Field Personnel: JAKE W/ ROY G.

General Weather Conditions: SUNNY + COOL 45° - 65°

Ambient Air Temperature: " °C

Quality Assurance

CHECK CAL AT OFFICE BACK TO USE

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: FORMER PANTRY 585

Site ID#: Monitoring Well # MW27

Water Supply Well Public Private

Monitoring Well Diameter (D): .163 feet (2 INCH)

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:	1.04	feet
Depth to Free Product (DFP)	11.96	feet
Depth to Ground Water (DGW)	13.00	feet
Total Well Depth (TWD)	20	feet
Length of the water column (LWC=TWD-DGW)	7.0	feet

1 casing volume (CV=LWC X C)= 7.0 X .163 = 1.14 gals

3 casing volume (3 X CV)= 3.4 gals (standard purge volume)

Total Volume of Water Purged Before Sampling ___ gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)								
pH (s.u.)								
Specific Conductivity (µmhos/cm)								
Water Temperature (°C)								
Dissolved Oxygen								
PID readings, if required								

Remarks: Free product no purge required.

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 10/23/08
Field Personnel: JAKE W/ ROY G.
General Weather Conditions: SUNNY + COOL 45° - 65°
Ambient Air Temperature: " °C

Quality Assurance
CHECK CAL AT OFFICE PRIOR TO USE

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: FORMER PANTRY 585
Site ID#: Monitoring Well # MW 28
Water Supply Well Public Private

Monitoring Well Diameter (D): .163 feet (2 INCH)

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: — feet
Depth to Free Product (DFP) — feet
Depth to Ground Water (DGW) 11.78 feet
Total Well Depth (TWD) 20 feet
Length of the water column (LWC=TWD-DGW) 8.22 feet
1 casing volume (CV=LWC X C)= 8.22 X ____ = 1.34 gals
3 casing volume (3 X CV)= 4.01 gals (standard purge volume)

Total Volume of Water Purged Before Sampling ≈ 5 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		1430	1431	1432				
pH (s.u.)		6.53	6.41	6.34				
Specific Conductivity (µmhos/cm)		0.283	0.283	0.049				
Water Temperature (°C)		26.21	26.27	26.07				
Dissolved Oxygen		4.38	4.20	5.59				
~~PID readings, if required~~ ORP		135.1	141.1	165.6				

Remarks: Well water Brackes Screen. and new install

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 10/16/08
Field Personnel: JAKE W/ ROY G.
General Weather Conditions: SUNNY + COOL 45° - 65°
Ambient Air Temperature: " °C

Quality Assurance
CHECK CAL AT OFFICE PRIOR TO USE

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: FORMER PANTRY 585
Site ID#: Monitoring Well # MW 29
Water Supply Well Public Private

Monitoring Well Diameter (D): .163 feet (2 INCH)

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: 0.10 feet
Depth to Free Product (DFP) 13.32 feet
Depth to Ground Water (DGW) 13.42 feet
Total Well Depth (TWD) 20. feet
Length of the water column (LWC=TWD-DGW) 6.58 feet
1 casing volume (CV=LWC X C)= 6.58 X .163 = 1.07 gals
3 casing volume (3 X CV)= _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)								
pH (s.u.)								
Specific Conductivity (µmhos/cm)								
Water Temperature (°C)								
Dissolved Oxygen								
PID readings, if required								

Remarks: Free product No purging required.

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 10/16/08
Field Personnel: JAKE W/ ROY G.
General Weather Conditions: SUNNY + COOL 45° - 65°
Ambient Air Temperature: " °C

Quality Assurance
CHECK CAL AT OFFICE PRIOR TO USE

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: FORMER PANTRY 585
Site ID#: Monitoring Well # MW30
Water Supply Well Public Private

Monitoring Well Diameter (D): .163 feet (2 INCH)

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: 2.18 feet
Depth to Free Product (DFP) 11.92 feet
Depth to Ground Water (DGW) 14.10 feet
Total Well Depth (TWD) 20. feet
Length of the water column (LWC=TWD-DGW) 5.9 feet
1 casing volume (CV=LWC X C)= 5.9 X .163 = .962 gals
3 casing volume (3 X CV)= 2.8 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)								
pH (s.u.)								
Specific Conductivity (µmhos/cm)								
Water Temperature (°C)								
Dissolved Oxygen								
PID readings, if required								

Remarks: Free Product No purging required

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 10/16/08
Field Personnel: JAKE W/ ROY G.
General Weather Conditions: SUNNY + COOL 45° - 65°
Ambient Air Temperature: " °C

Quality Assurance
CHECK CAL AT OFFICE PRIOR TO USE

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: FORMER PANTRY 585
Site ID#: Monitoring Well # MW-31
Water Supply Well Public Private

Monitoring Well Diameter (D): .163 feet (2 INCH)

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: — feet
Depth to Free Product (DFP) — feet
Depth to Ground Water (DGW) 11.85 feet
Total Well Depth (TWD) 20.00 feet
Length of the water column (LWC=TWD-DGW) 8.15 feet
1 casing volume (CV=LWC X C)= 8.15 X .163 = 1.3 gals
3 casing volume (3 X CV)= 3.9 gals (standard purge volume)

Total Volume of Water Purged Before Sampling ≈4 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)								
pH (s.u.)		6.16	6.18	6.33				
Specific Conductivity (µmhos/cm)		0.268	0.268	0.272				
Water Temperature (°C)		26.13	24.68	25.20				
Dissolved Oxygen		1.87	2.87	2.71				
PID readings, if required		-3.9	-5.7	-251				

Remarks: Well Water Brackets Screen

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy):

Field Personnel: JAKE W/ ROY G.

General Weather Conditions: SUNNY + COOL 45° - 65°

Ambient Air Temperature: " °C

Quality Assurance

CHECK CAL AT OFFICE PRIOR TO USE

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: FORMER PANTRY 585

Site ID#: Monitoring Well # KM017

Water Supply Well Public Private

Monitoring Well Diameter (D): .163 feet (2 INCH)

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: — feet
Depth to Free Product (DFP) — feet
Depth to Ground Water (DGW) 9.12 feet
Total Well Depth (TWD) 15 feet
Length of the water column (LWC=TWD-DGW) 5.88 feet
1 casing volume (CV=LWC X C)= 5.88 X .163 = 0.95 gals
3 casing volume (3 X CV)= gals (standard purge volume)

Total Volume of Water Purged Before Sampling gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)								
pH (s.u.)								
Specific Conductivity (µmhos/cm)								
Water Temperature (°C)								
Dissolved Oxygen								
PID readings, if required								

Remarks: No purge well water Brackits screen

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy):

Field Personnel: JAKE W/ ROY G.

General Weather Conditions: SUNNY + COOL 45° - 65°

Ambient Air Temperature: " °C

Quality Assurance

CHECK CAL AT OFFICE PRIOR TO USE

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Facility Name: FORMER PANTRY 585

Site ID#: Monitoring Well # KM018

Water Supply Well Public Private

Monitoring Well Diameter (D): .163 feet (2 INCH)

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: — feet
Depth to Free Product (DFP) — feet
Depth to Ground Water (DGW) 8.10 feet
Total Well Depth (TWD) 15 feet
Length of the water column (LWC=TWD-DGW) 6.9 feet
1 casing volume (CV=LWC X C)= 6.9 X .163 = 1.12 gals
3 casing volume (3 X CV)= _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)								
pH (s.u.)								
Specific Conductivity (µmhos/cm)								
Water Temperature (°C)								
Dissolved Oxygen								
PID readings, if required								

Remarks: No purge well water Brackets screen

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 10/16/08
Field Personnel: JAKE W/ ROY G.
General Weather Conditions: SUNNY + COOL 45° - 65°
Ambient Air Temperature: " °C

Quality Assurance
CHECK CAL AT OFFICE PRIOR TO USE

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: FORMER PANTRY 585
Site ID#: Monitoring Well # DMW-1
Water Supply Well Public Private

Monitoring Well Diameter (D): .163 feet (2 INCH)

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: — feet
Depth to Free Product (DFP) — feet
Depth to Ground Water (DGW) 13.07 feet
Total Well Depth (TWD) 78 feet
Length of the water column (LWC=TWD-DGW) 64.93 feet
1 casing volume (CV=LWC X C)= 64.93 X .163 = 10.58 gals
3 casing volume (3 X CV)=31.74 gals (standard purge volume)

Total Volume of Water Purged Before Sampling ≈32 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		12:45	12:46	12:47				
pH (s.u.)		10.58	10.61	10.63				
Specific Conductivity (µmhos/cm)		3.744	3.771	3.779				
Water Temperature (°C)		24.27	24.26	24.26				
Dissolved Oxygen		7.71	7.48	7.16				
~~PID readings, if required~~ ORP		-2.6	-2.7	-2.3				

Remarks: Purge well Deep well

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 10/16/08
Field Personnel: JAKE W/ ROY S.
General Weather Conditions: SUNNY + COOL 45° - 65°
Ambient Air Temperature: " °C

Quality Assurance
CHECK CAL AT OFFICE PRIOR TO USE

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: FORMER PANTRY 585
Site ID#: Monitoring Well # DMW-2
Water Supply Well Public Private

Monitoring Well Diameter (D): .163 feet (2 INCH)

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: — feet
Depth to Free Product (DFP) — feet
Depth to Ground Water (DGW) 13.47 feet
Total Well Depth (TWD) 80 feet
Length of the water column (LWC=TWD-DGW) 66.53 feet
1 casing volume (CV=LWC X C)= 66.53 X .163 = 10.84 gals
3 casing volume (3 X CV)= 32.52 gals (standard purge volume)

Total Volume of Water Purged Before Sampling ≈33 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		9:15	9:16	9:17				
pH (s.u.)		8.47	8.88	8.66				
Specific Conductivity (µmhos/cm)		0.258	0.110	0.120				
Water Temperature (°C)		22.12	21.04	21.38				
Dissolved Oxygen		4.52	3.01	3.29				
~~PID readings, If required~~ ORP		-292.3	-327.1	-351.1				

Remarks: Purge well Deep Well

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 10/16/08
Field Personnel: JAKE W/ ROY G.
General Weather Conditions: SUNNY + COOL 45° - 65°
Ambient Air Temperature: " °C

Quality Assurance
CHECK CAL AT OFFICE PRIOR TO USE

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: FORMER PANTRY 585
Site ID#:
Monitoring Well # DMW-3
Water Supply Well Public Private

Monitoring Well Diameter (D): .163 feet (2 INCH)

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: — feet
Depth to Free Product (DFP) — feet
Depth to Ground Water (DGW) 29.88 feet
Total Well Depth (TWD) 135 feet
Length of the water column (LWC=TWD-DGW) 105.12 feet
1 casing volume (CV=LWC X C)= 105.12 X .163 = 17.13 gals
3 casing volume (3 X CV)= 51.4 gals (standard purge volume)

Total Volume of Water Purged Before Sampling ≈52 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		1230	1231	1232				
pH (s.u.)		9.27	9.23	8.84				
Specific Conductivity (µmhos/cm)		0.133	0.137	0.109				
Water Temperature (°C)		22.8	22.99	21.59				
Dissolved Oxygen		5.49	3.82	4.01				
~~PID readings, if required~~ ORP		95.7	103.4	98.2				

Remarks: Purged well Deep well

APPENDIX I

Soil Sample Analytical Reports

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Case Narrative for:

ATC ASSOCIATES, INC.

Certificate of Analysis Number:

08100899

Report To:		Project Name:	PANTRY 585	
ATC ASSOCIATES, INC.		Site:	PANTRY 585	
JAKE WHITTLE		Site Address:		
3417-A TRADE PARK CT.			ANDERSON	SC
CHARLOTTE		PO Number:		
NC		State:	South Carolina	
28217-		State Cert. No.:	73004001	
ph: (704) 529-3200	fax:	Date Reported:	10/31/2008	

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data for those samples spiked by the laboratory and may be applicable to other samples of similar matrix from the site. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process. If insufficient sample is supplied for MS/MSD, a Laboratory Control Sample (LCS) and a Laboratory Control Sample Duplicate (LCSD) are reported with the analytical batch and serve as the batch quality control (QC).

Results are reported on a Wet Weight Basis unless otherwise noted in the sample unit field as -dry.

The collection of samples using encores, terracores or other field collection devices may result in inconsistent initial sample weights for the parent sample and MS/MSD samples.

The MS/MSD recovery and precision data are calculated based on detected spike concentrations that are adjusted for initial sample weights. As a result of the variability between initial sample weights, the calculated RPD may have increased bias.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

TOTAL NUMBER OF PAGES IN THIS REPORT: _____ PAGES

10/31/2008

Amy K. Jackson
Project Manager

Date

Test results meet all requirements of NELAC, unless specified in the narrative.

LAFAYETTE LABORATORY
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ATC ASSOCIATES, INC.

Certificate of Analysis Number:

08100899

Report To: ATC ASSOCIATES, INC.
JAKE WHITTLE
3417-A TRADE PARK CT.

CHARLOTTE
NC
28217-
ph: (704) 529-3200 fax: (704) 529-3272

Fax To:

Project Name: PANTRY 585
Site: PANTRY 585
Site Address:
ANDERSON SC
PO Number:
State: South Carolina
State Cert. No.: 73004001
Date Reported: 10/31/2008

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
SB/MW-14 @ 5	08100899-01	Soil	10/21/2008 1:50:00 PM	10/22/2008 9:51:00 AM	272506, 272507	☐
SB/MW-15 @5	08100899-02	Soil	10/21/2008 2:10:00 PM	10/22/2008 9:51:00 AM	272506, 272507	☐
SB/MW-16 @ 5	08100899-03	Soil	10/21/2008 1:10:00 PM	10/22/2008 9:51:00 AM	272506, 272507	☐
SB/MW-17 @ 10	08100899-04	Soil	10/21/2008 9:00:00 AM	10/22/2008 9:51:00 AM	272506, 272507	☐
SB-MW-18 @ 4	08100899-05	Soil	10/21/2008 12:30:00 PM	10/22/2008 9:51:00 AM	272506, 272507	☐
SB/MW-19 @ 6	08100899-06	Soil	10/21/2008 11:20:00 AM	10/22/2008 9:51:00 AM	272506, 272507	☐
SB/MW-20 @ 5	08100899-07	Soil	10/21/2008 1:20:00 PM	10/22/2008 9:51:00 AM	272506, 272507	☐
SB/MW-21 @ 8	08100899-08	Soil	10/21/2008 12:40:00 PM	10/22/2008 9:51:00 AM	272506, 272507	☐
SB/MW-22 @ 5	08100899-09	Soil	10/21/2008 10:45:00 AM	10/22/2008 9:51:00 AM	272506, 272507	☐
SB/MW-23 @ 5	08100899-10	Soil	10/21/2008 12:20:00 PM	10/22/2008 9:51:00 AM	272506, 272507	☐
SB/MW-24 @ 4	08100899-11	Soil	10/21/2008 12:10:00 PM	10/22/2008 9:51:00 AM	272506, 272507	☐
SB/MW-25 @ 5	08100899-12	Soil	10/21/2008 1:30:00 PM	10/22/2008 9:51:00 AM	272506, 272507	☐
SB/MW-26 @ 8	08100899-13	Soil	10/21/2008 11:00:00 AM	10/22/2008 9:51:00 AM	272506, 272507	☐
SB/MW-27 @ 6	08100899-14	Soil	10/21/2008 11:30:00 AM	10/22/2008 9:51:00 AM	272506, 272507	☐
SB/MW-28 @ 6	08100899-15	Soil	10/21/2008 10:00:00 AM	10/22/2008 9:51:00 AM	272506, 272507	☐
SB/MW-29 @ 5	08100899-16	Soil	10/21/2008 9:40:00 AM	10/22/2008 9:51:00 AM	272506, 272507	☐
SB/MW-30 @ 5	08100899-17	Soil	10/21/2008 11:40:00 AM	10/22/2008 9:51:00 AM	272506, 272507	☐
SB/MW-31 @ 8	08100899-18	Soil	10/21/2008 11:50:00 AM	10/22/2008 9:51:00 AM	272506, 272507	☐
SB/MW-3 @ 5	08100899-19	Soil	10/21/2008 11:10:00 AM	10/22/2008 9:51:00 AM	272506, 272507	☐

10/31/2008

Amy K. Jackson
Project Manager

Date

Ron Benjamin
Laboratory Director

Tristan Davis
Quality Assurance Officer

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: SB/MW-14 @ 5 **Collected:** 10/21/2008 13:50 **SPL Sample ID:** 08100899-01

Site: PANTRY 585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PERCENT MOISTURE				**MCL**	**D2216**	**Units: wt%**	
Percent Moisture	17		0.1	1	10/29/08 9:16	RDH	2844437
VOLATILE ORGANICS: METHOD 8260B+MTBE+NAPHTHALE				**MCL**	**SW8260B**	**Units: mg/Kg-dry**	
Benzene	ND		0.0011	1	10/28/08 16:25	RP	2843446
Ethylbenzene	0.074		0.0011	1	10/28/08 16:25	RP	2843446
Methyl tert-butyl ether	ND		0.0053	1	10/28/08 16:25	RP	2843446
Naphthalene	ND		0.0053	1	10/28/08 16:25	RP	2843446
Toluene	ND		0.0011	1	10/28/08 16:25	RP	2843446
m,p-Xylene	0.19		0.0021	1	10/28/08 16:25	RP	2843446
o-Xylene	0.038		0.0011	1	10/28/08 16:25	RP	2843446
Xylenes,Total	0.228		0.00528	1	10/28/08 16:25	RP	2843446
Surr: 1,2-Dichloroethane-d4	129		% 67-158	1	10/28/08 16:25	RP	2843446
Surr: 4-Bromofluorobenzene	109		% 84-112	1	10/28/08 16:25	RP	2843446
Surr: Toluene-d8	117	*	% 89-112	1	10/28/08 16:25	RP	2843446

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	10/21/2008 13:50	Field	0.88

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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Client Sample ID: SB/MW-15 @5 **Collected:** 10/21/2008 14:10 **SPL Sample ID:** 08100899-02

Site: PANTRY 585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PERCENT MOISTURE				**MCL**	**D2216**	**Units: wt%**	
Percent Moisture	32		0.1	1	10/29/08 9:16	RDH	2844438
VOLATILE ORGANICS: METHOD 8260B+MTBE+NAPHTHALE				**MCL**	**SW8260B**	**Units: mg/Kg-dry**	
Benzene	ND		0.0013	1	10/28/08 16:53	RP	2843447
Ethylbenzene	0.02		0.0013	1	10/28/08 16:53	RP	2843447
Methyl tert-butyl ether	ND		0.0066	1	10/28/08 16:53	RP	2843447
Naphthalene	ND		0.0066	1	10/28/08 16:53	RP	2843447
Toluene	ND		0.0013	1	10/28/08 16:53	RP	2843447
m,p-Xylene	0.061		0.0026	1	10/28/08 16:53	RP	2843447
o-Xylene	0.021		0.0013	1	10/28/08 16:53	RP	2843447
Xylenes,Total	0.082		0.0066	1	10/28/08 16:53	RP	2843447
Surr: 1,2-Dichloroethane-d4	118		% 67-158	1	10/28/08 16:53	RP	2843447
Surr: 4-Bromofluorobenzene	102		% 84-112	1	10/28/08 16:53	RP	2843447
Surr: Toluene-d8	103		% 89-112	1	10/28/08 16:53	RP	2843447

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	10/21/2008 14:10	Field	0.89

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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Client Sample ID: SB/MW-16 @ 5 **Collected:** 10/21/2008 13:10 **SPL Sample ID:** 08100899-03

Site: **PANTRY 585**

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PERCENT MOISTURE				**MCL**	**D2216**	**Units: wt%**	
Percent Moisture	17		0.1	1	10/29/08 9:16	RDH	2844439
VOLATILE ORGANICS: METHOD 8260B+MTBE+NAPHTHALE				**MCL**	**SW8260B**	**Units: mg/Kg-dry**	
Benzene	ND		0.00091	1	10/28/08 17:21	RP	2843448
Ethylbenzene	ND		0.00091	1	10/28/08 17:21	RP	2843448
Methyl tert-butyl ether	ND		0.0046	1	10/28/08 17:21	RP	2843448
Naphthalene	ND		0.0046	1	10/28/08 17:21	RP	2843448
Toluene	ND		0.00091	1	10/28/08 17:21	RP	2843448
m,p-Xylene	ND		0.0018	1	10/28/08 17:21	RP	2843448
o-Xylene	ND		0.00091	1	10/28/08 17:21	RP	2843448
Xylenes,Total	ND		0.00457	1	10/28/08 17:21	RP	2843448
Surr: 1,2-Dichloroethane-d4	114	%	67-158	1	10/28/08 17:21	RP	2843448
Surr: 4-Bromofluorobenzene	101	%	84-112	1	10/28/08 17:21	RP	2843448
Surr: Toluene-d8	102	%	89-112	1	10/28/08 17:21	RP	2843448

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	10/21/2008 13:10	Field	0.76

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
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Client Sample ID: SB/MW-17 @ 10 **Collected:** 10/21/2008 9:00 **SPL Sample ID:** 08100899-04

Site: PANTRY 585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PERCENT MOISTURE				**MCL**	**D2216**	**Units: wt%**	
Percent Moisture	21		0.1	1	10/29/08 9:16	RDH	2844440
VOLATILE ORGANICS: METHOD 8260B+MTBE+NAPHTHALE				**MCL**	**SW8260B**	**Units: mg/Kg-dry**	
Benzene	0.038		0.0011	1	10/29/08 15:44	NDG	2845103
Ethylbenzene	0.019		0.0011	1	10/29/08 15:44	NDG	2845103
Methyl tert-butyl ether	0.12		0.0055	1	10/29/08 15:44	NDG	2845103
Naphthalene	ND		0.0055	1	10/29/08 15:44	NDG	2845103
Toluene	0.11		0.0011	1	10/29/08 15:44	NDG	2845103
m,p-Xylene	0.1		0.0022	1	10/29/08 15:44	NDG	2845103
o-Xylene	0.046		0.0011	1	10/29/08 15:44	NDG	2845103
Xylenes,Total	0.146		0.00546	1	10/29/08 15:44	NDG	2845103
Surr: 1,2-Dichloroethane-d4	105	%	67-158	1	10/29/08 15:44	NDG	2845103
Surr: 4-Bromofluorobenzene	100	%	84-112	1	10/29/08 15:44	NDG	2845103
Surr: Toluene-d8	98.4	%	89-112	1	10/29/08 15:44	NDG	2845103

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	10/21/2008 9:00	Field	0.86

Qualifiers:

ND/U - Not Detected at the Reporting Limit
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J - Estimated Value between MDL and PQL
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TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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Client Sample ID: SB-MW-18 @ 4 **Collected:** 10/21/2008 12:30 **SPL Sample ID:** 08100899-05

Site: **PANTRY 585**

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PERCENT MOISTURE				**MCL**	**D2216**	**Units: wt%**	
Percent Moisture	17		0.1	1	10/29/08 9:16	RDH	2844441
VOLATILE ORGANICS: METHOD 8260B+MTBE+NAPHTHALE				**MCL**	**SW8260B**	**Units: mg/Kg-dry**	
Benzene	0.0057		0.001	1	10/28/08 18:17	RP	2843744
Ethylbenzene	0.0015		0.001	1	10/28/08 18:17	RP	2843744
Methyl tert-butyl ether	ND		0.0052	1	10/28/08 18:17	RP	2843744
Naphthalene	ND		0.0052	1	10/28/08 18:17	RP	2843744
Toluene	ND		0.001	1	10/28/08 18:17	RP	2843744
m,p-Xylene	ND		0.0021	1	10/28/08 18:17	RP	2843744
o-Xylene	ND		0.001	1	10/28/08 18:17	RP	2843744
Xylenes,Total	ND		0.0052	1	10/28/08 18:17	RP	2843744
Surr: 1,2-Dichloroethane-d4	114	%	67-158	1	10/28/08 18:17	RP	2843744
Surr: 4-Bromofluorobenzene	103	%	84-112	1	10/28/08 18:17	RP	2843744
Surr: Toluene-d8	96.0	%	89-112	1	10/28/08 18:17	RP	2843744

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	10/21/2008 12:30	Field	0.86

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
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SCOTT, LA 70583
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Client Sample ID: SB/MW-19 @ 6 **Collected:** 10/21/2008 11:20 **SPL Sample ID:** 08100899-06

Site: PANTRY 585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PERCENT MOISTURE				**MCL**	**D2216**	**Units: wt%**	
Percent Moisture	21		0.1	1	10/29/08 9:16	RDH	2844442
VOLATILE ORGANICS: METHOD 8260B+MTBE+NAPHTHALE				**MCL**	**SW8260B**	**Units: mg/Kg-dry**	
Benzene	61		0.49	500	10/30/08 14:31	RP	2846145
Ethylbenzene	97		0.99	1000	10/31/08 13:39	DN	2847712
Methyl tert-butyl ether	9.4		2.5	500	10/30/08 14:31	RP	2846145
Naphthalene	33		4.9	1000	10/31/08 13:39	DN	2847712
Toluene	340		0.99	1000	10/31/08 13:39	DN	2847712
m,p-Xylene	320		2	1000	10/31/08 13:39	DN	2847712
o-Xylene	140		0.99	1000	10/31/08 13:39	DN	2847712
Xylenes,Total	460		4.9	1000	10/31/08 13:39	DN	2847712
Surr: 1,2-Dichloroethane-d4	91.6		% 62-134	500	10/30/08 14:31	RP	2846145
Surr: 1,2-Dichloroethane-d4	94.2		% 62-134	1000	10/31/08 13:39	DN	2847712
Surr: 4-Bromofluorobenzene	102		% 75-128	500	10/30/08 14:31	RP	2846145
Surr: 4-Bromofluorobenzene	99.8		% 75-128	1000	10/31/08 13:39	DN	2847712
Surr: Toluene-d8	97.0		% 78-120	500	10/30/08 14:31	RP	2846145
Surr: Toluene-d8	97.4		% 78-120	1000	10/31/08 13:39	DN	2847712

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	10/21/2008 11:20	Field	0.78

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: SB/MW-20 @ 5 **Collected:** 10/21/2008 13:20 **SPL Sample ID:** 08100899-07

Site: **PANTRY 585**

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PERCENT MOISTURE				**MCL**	**D2216**	**Units: wt%**	
Percent Moisture	14		0.1	1	10/29/08 9:16	RDH	2844443
VOLATILE ORGANICS: METHOD 8260B+MTBE+NAPHTHALE				**MCL**	**SW8260B**	**Units: mg/Kg-dry**	
Benzene	ND		0.00091	1	10/28/08 18:45	RP	2843745
Ethylbenzene	ND		0.00091	1	10/28/08 18:45	RP	2843745
Methyl tert-butyl ether	ND		0.0045	1	10/28/08 18:45	RP	2843745
Naphthalene	ND		0.0045	1	10/28/08 18:45	RP	2843745
Toluene	ND		0.00091	1	10/28/08 18:45	RP	2843745
m,p-Xylene	ND		0.0018	1	10/28/08 18:45	RP	2843745
o-Xylene	ND		0.00091	1	10/28/08 18:45	RP	2843745
Xylenes,Total	ND		0.0045	1	10/28/08 18:45	RP	2843745
Surr: 1,2-Dichloroethane-d4	113		% 67-158	1	10/28/08 18:45	RP	2843745
Surr: 4-Bromofluorobenzene	99.0		% 84-112	1	10/28/08 18:45	RP	2843745
Surr: Toluene-d8	97.6		% 89-112	1	10/28/08 18:45	RP	2843745

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	10/21/2008 13:20	Field	0.78

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: SB/MW-21 @ 8 **Collected:** 10/21/2008 12:40 **SPL Sample ID:** 08100899-08

Site: PANTRY 585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PERCENT MOISTURE				**MCL**	**D2216**	**Units: wt%**	
Percent Moisture	20		0.1	1	10/29/08 9:16	RDH	2844444
VOLATILE ORGANICS: METHOD 8260B+MTBE+NAPHTHALE				**MCL**	**SW8260B**	**Units: mg/Kg-dry**	
Benzene	ND		0.0012	1	10/28/08 18:45	RP	2843746
Ethylbenzene	ND		0.0012	1	10/28/08 18:45	RP	2843746
Methyl tert-butyl ether	ND		0.0058	1	10/28/08 18:45	RP	2843746
Naphthalene	ND		0.0058	1	10/28/08 18:45	RP	2843746
Toluene	ND		0.0012	1	10/28/08 18:45	RP	2843746
m,p-Xylene	ND		0.0023	1	10/28/08 18:45	RP	2843746
o-Xylene	ND		0.0012	1	10/28/08 18:45	RP	2843746
Xylenes,Total	ND		0.0058	1	10/28/08 18:45	RP	2843746
Surr: 1,2-Dichloroethane-d4	114	%	67-158	1	10/28/08 18:45	RP	2843746
Surr: 4-Bromofluorobenzene	100	%	84-112	1	10/28/08 18:45	RP	2843746
Surr: Toluene-d8	99.0	%	89-112	1	10/28/08 18:45	RP	2843746

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	10/21/2008 12:40	Field	0.93

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
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Client Sample ID: SB/MW-22 @ 5 **Collected:** 10/21/2008 10:45 **SPL Sample ID:** 08100899-09

Site: PANTRY 585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PERCENT MOISTURE				**MCL**	**D2216**	**Units: wt%**	
Percent Moisture	13		0.1	1	10/29/08 9:16	RDH	2844445
VOLATILE ORGANICS: METHOD 8260B+MTBE+NAPHTHALE				**MCL**	**SW8260B**	**Units: mg/Kg-dry**	
Benzene	0.0026		0.00093	1	10/29/08 13:50	NDG	2845099
Ethylbenzene	0.0018		0.00093	1	10/29/08 13:50	NDG	2845099
Methyl tert-butyl ether	ND		0.0046	1	10/29/08 13:50	NDG	2845099
Naphthalene	ND		0.0046	1	10/29/08 13:50	NDG	2845099
Toluene	ND		0.00093	1	10/29/08 13:50	NDG	2845099
m,p-Xylene	0.0086		0.0019	1	10/29/08 13:50	NDG	2845099
o-Xylene	0.0024		0.00093	1	10/29/08 13:50	NDG	2845099
Xylenes,Total	0.011		0.0046	1	10/29/08 13:50	NDG	2845099
Surr: 1,2-Dichloroethane-d4	101		% 67-158	1	10/29/08 13:50	NDG	2845099
Surr: 4-Bromofluorobenzene	98.7		% 84-112	1	10/29/08 13:50	NDG	2845099
Surr: Toluene-d8	117	MI	% 89-112	1	10/29/08 13:50	NDG	2845099

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	10/21/2008 10:45	Field	0.81

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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Client Sample ID: SB/MW-23 @ 5 **Collected:** 10/21/2008 12:20 **SPL Sample ID:** 08100899-10

Site: **PANTRY 585**

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PERCENT MOISTURE				**MCL**	**D2216**	**Units: wt%**	
Percent Moisture	13		0.1	1	10/29/08 9:16	RDH	2844446
VOLATILE ORGANICS: METHOD 8260B+MTBE+NAPHTHALE				**MCL**	**SW8260B**	**Units: mg/Kg-dry**	
Benzene	0.0075		0.00084	1	10/29/08 12:53	NDG	2845097
Ethylbenzene	0.0022		0.00084	1	10/29/08 12:53	NDG	2845097
Methyl tert-butyl ether	ND		0.0042	1	10/29/08 12:53	NDG	2845097
Naphthalene	ND		0.0042	1	10/29/08 12:53	NDG	2845097
Toluene	ND		0.00084	1	10/29/08 12:53	NDG	2845097
m,p-Xylene	0.0017		0.0017	1	10/29/08 12:53	NDG	2845097
o-Xylene	ND		0.00084	1	10/29/08 12:53	NDG	2845097
Xylenes,Total	ND		0.00422	1	10/29/08 12:53	NDG	2845097
Surr: 1,2-Dichloroethane-d4	111		% 67-158	1	10/29/08 12:53	NDG	2845097
Surr: 4-Bromofluorobenzene	103		% 84-112	1	10/29/08 12:53	NDG	2845097
Surr: Toluene-d8	97.3		% 89-112	1	10/29/08 12:53	NDG	2845097

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	10/21/2008 12:20	Field	0.74

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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Client Sample ID: SB/MW-24 @ 4 **Collected:** 10/21/2008 12:10 **SPL Sample ID:** 08100899-11

Site: PANTRY 585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PERCENT MOISTURE				**MCL**	**D2216**	**Units: wt%**	
Percent Moisture	7.5		0.1	1	10/29/08 9:16	RDH	2844447
VOLATILE ORGANICS: METHOD 8260B+MTBE+NAPHTHALE				**MCL**	**SW8260B**	**Units: mg/Kg-dry**	
Benzene	0.29		0.047	50	10/30/08 5:10	TDD	2844770
Ethylbenzene	0.37		0.047	50	10/30/08 5:10	TDD	2844770
Methyl tert-butyl ether	ND		0.24	50	10/30/08 5:10	TDD	2844770
Naphthalene	ND		0.24	50	10/30/08 5:10	TDD	2844770
Toluene	ND		0.047	50	10/30/08 5:10	TDD	2844770
m,p-Xylene	0.66		0.095	50	10/30/08 5:10	TDD	2844770
o-Xylene	ND		0.047	50	10/30/08 5:10	TDD	2844770
Xylenes,Total	0.66		0.237	50	10/30/08 5:10	TDD	2844770
Surr: 1,2-Dichloroethane-d4	90.1	%	67-158	50	10/30/08 5:10	TDD	2844770
Surr: 4-Bromofluorobenzene	95.0	%	84-112	50	10/30/08 5:10	TDD	2844770
Surr: Toluene-d8	102	%	89-112	50	10/30/08 5:10	TDD	2844770

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	10/21/2008 12:10	Field	0.88

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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Client Sample ID: SB/MW-25 @ 5 **Collected:** 10/21/2008 13:30 **SPL Sample ID:** 08100899-12

Site: PANTRY 585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PERCENT MOISTURE				**MCL**	**D2216**	**Units: wt%**	
Percent Moisture	23		0.1	1	10/29/08 9:16	RDH	2844448
VOLATILE ORGANICS: METHOD 8260B+MTBE+NAPHTHALE				**MCL**	**SW8260B**	**Units: mg/Kg-dry**	
Benzene	ND		0.001	1	10/29/08 13:22	NDG	2845098
Ethylbenzene	ND		0.001	1	10/29/08 13:22	NDG	2845098
Methyl tert-butyl ether	ND		0.005	1	10/29/08 13:22	NDG	2845098
Naphthalene	ND		0.005	1	10/29/08 13:22	NDG	2845098
Toluene	ND		0.001	1	10/29/08 13:22	NDG	2845098
m,p-Xylene	ND		0.002	1	10/29/08 13:22	NDG	2845098
o-Xylene	ND		0.001	1	10/29/08 13:22	NDG	2845098
Xylenes,Total	ND		0.005	1	10/29/08 13:22	NDG	2845098
Surr: 1,2-Dichloroethane-d4	111		% 67-158	1	10/29/08 13:22	NDG	2845098
Surr: 4-Bromofluorobenzene	101		% 84-112	1	10/29/08 13:22	NDG	2845098
Surr: Toluene-d8	100		% 89-112	1	10/29/08 13:22	NDG	2845098

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	10/21/2008 13:30	Field	0.77

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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Client Sample ID: SB/MW-26 @ 8 **Collected:** 10/21/2008 11:00 **SPL Sample ID:** 08100899-13

Site: **PANTRY 585**

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PERCENT MOISTURE				**MCL**	**D2216**	**Units: wt%**	
Percent Moisture	15		0.1	1	10/29/08 9:16	RDH	2844449
VOLATILE ORGANICS: METHOD 8260B+MTBE+NAPHTHALE				**MCL**	**SW8260B**	**Units: mg/Kg-dry**	
Benzene	0.0027		0.00095	1	10/29/08 14:19	NDG	2845100
Ethylbenzene	0.0018		0.00095	1	10/29/08 14:19	NDG	2845100
Methyl tert-butyl ether	ND		0.0047	1	10/29/08 14:19	NDG	2845100
Naphthalene	ND		0.0047	1	10/29/08 14:19	NDG	2845100
Toluene	ND		0.00095	1	10/29/08 14:19	NDG	2845100
m,p-Xylene	0.0083		0.0019	1	10/29/08 14:19	NDG	2845100
o-Xylene	0.002		0.00095	1	10/29/08 14:19	NDG	2845100
Xylenes,Total	0.0103		0.00474	1	10/29/08 14:19	NDG	2845100
Surr: 1,2-Dichloroethane-d4	106		% 67-158	1	10/29/08 14:19	NDG	2845100
Surr: 4-Bromofluorobenzene	95.7		% 84-112	1	10/29/08 14:19	NDG	2845100
Surr: Toluene-d8	110		% 89-112	1	10/29/08 14:19	NDG	2845100

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	10/21/2008 11:00	Field	0.81

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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Client Sample ID: SB/MW-27 @ 6 **Collected:** 10/21/2008 11:30 **SPL Sample ID:** 08100899-14

Site: PANTRY 585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PERCENT MOISTURE				**MCL**	**D2216**	**Units: wt%**	
Percent Moisture	21		0.1	1	10/29/08 9:16	RDH	2844450
VOLATILE ORGANICS: METHOD 8260B+MTBE+NAPHTHALE				**MCL**	**SW8260B**	**Units: mg/Kg-dry**	
Benzene	0.0016		0.00093	1	10/29/08 14:47	NDG	2845101
Ethylbenzene	0.0065		0.00093	1	10/29/08 14:47	NDG	2845101
Methyl tert-butyl ether	ND		0.0047	1	10/29/08 14:47	NDG	2845101
Naphthalene	ND		0.0047	1	10/29/08 14:47	NDG	2845101
Toluene	0.018		0.00093	1	10/29/08 14:47	NDG	2845101
m,p-Xylene	0.025		0.0019	1	10/29/08 14:47	NDG	2845101
o-Xylene	0.01		0.00093	1	10/29/08 14:47	NDG	2845101
Xylenes,Total	0.035		0.0047	1	10/29/08 14:47	NDG	2845101
Surr: 1,2-Dichloroethane-d4	102	%	67-158	1	10/29/08 14:47	NDG	2845101
Surr: 4-Bromofluorobenzene	105	%	84-112	1	10/29/08 14:47	NDG	2845101
Surr: Toluene-d8	107	%	89-112	1	10/29/08 14:47	NDG	2845101

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	10/21/2008 11:30	Field	0.74

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
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Client Sample ID: SB/MW-28 @ 6 **Collected:** 10/21/2008 10:00 **SPL Sample ID:** 08100899-15

Site: PANTRY 585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PERCENT MOISTURE				**MCL**	**D2216**	**Units: wt%**	
Percent Moisture	21		0.1	1	10/29/08 9:16	RDH	2844451
VOLATILE ORGANICS: METHOD 8260B+MTBE+NAPHTHALE				**MCL**	**SW8260B**	**Units: mg/Kg-dry**	
Benzene	0.016		0.0011	1	10/29/08 15:16	NDG	2845102
Ethylbenzene	ND		0.0011	1	10/29/08 15:16	NDG	2845102
Methyl tert-butyl ether	ND		0.0053	1	10/29/08 15:16	NDG	2845102
Naphthalene	ND		0.0053	1	10/29/08 15:16	NDG	2845102
Toluene	ND		0.0011	1	10/29/08 15:16	NDG	2845102
m,p-Xylene	ND		0.0021	1	10/29/08 15:16	NDG	2845102
o-Xylene	ND		0.0011	1	10/29/08 15:16	NDG	2845102
Xylenes,Total	ND		0.00527	1	10/29/08 15:16	NDG	2845102
Surr: 1,2-Dichloroethane-d4	117		% 67-158	1	10/29/08 15:16	NDG	2845102
Surr: 4-Bromofluorobenzene	109		% 84-112	1	10/29/08 15:16	NDG	2845102
Surr: Toluene-d8	106		% 89-112	1	10/29/08 15:16	NDG	2845102

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	10/21/2008 10:00	Field	0.83

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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Client Sample ID: SB/MW-29 @ 5 **Collected:** 10/21/2008 9:40 **SPL Sample ID:** 08100899-16

Site: PANTRY 585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PERCENT MOISTURE				**MCL**	**D2216**	**Units: wt%**	
Percent Moisture	21		0.1	1	10/29/08 9:16	RDH	2844452
VOLATILE ORGANICS: METHOD 8260B+MTBE+NAPHTHALE				**MCL**	**SW8260B**	**Units: mg/Kg-dry**	
Benzene	4.9		0.65	500	10/31/08 13:11	DN	2847711
Ethylbenzene	42		0.65	500	10/31/08 13:11	DN	2847711
Methyl tert-butyl ether	ND		1.3	200	10/30/08 14:59	RP	2846146
Naphthalene	20		1.3	200	10/30/08 14:59	RP	2846146
Toluene	140		0.65	500	10/31/08 13:11	DN	2847711
m,p-Xylene	150		1.3	500	10/31/08 13:11	DN	2847711
o-Xylene	68		0.65	500	10/31/08 13:11	DN	2847711
Xylenes,Total	218		3.2	500	10/31/08 13:11	DN	2847711
Surr: 1,2-Dichloroethane-d4	90.9		% 62-134	200	10/30/08 14:59	RP	2846146
Surr: 1,2-Dichloroethane-d4	93.0		% 62-134	500	10/31/08 13:11	DN	2847711
Surr: 4-Bromofluorobenzene	99.4		% 75-128	200	10/30/08 14:59	RP	2846146
Surr: 4-Bromofluorobenzene	100		% 75-128	500	10/31/08 13:11	DN	2847711
Surr: Toluene-d8	98.1		% 78-120	200	10/30/08 14:59	RP	2846146
Surr: Toluene-d8	98.5		% 78-120	500	10/31/08 13:11	DN	2847711

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	10/27/2008 13:22	hbo	1.02

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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Client Sample ID: SB/MW-30 @ 5 **Collected:** 10/21/2008 11:40 **SPL Sample ID:** 08100899-17

Site: PANTRY 585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PERCENT MOISTURE				**MCL**	**D2216**	**Units: wt%**	
Percent Moisture	16		0.1	1	10/29/08 9:16	RDH	2844453
VOLATILE ORGANICS: METHOD 8260B+MTBE+NAPHTHALE				**MCL**	**SW8260B**	**Units: mg/Kg-dry**	
Benzene	0.91		0.068	50	10/30/08 6:06	TDD	2844772
Ethylbenzene	0.23		0.068	50	10/30/08 6:06	TDD	2844772
Methyl tert-butyl ether	0.9		0.34	50	10/30/08 6:06	TDD	2844772
Naphthalene	ND		0.34	50	10/30/08 6:06	TDD	2844772
Toluene	0.093		0.068	50	10/30/08 6:06	TDD	2844772
m,p-Xylene	0.84		0.14	50	10/30/08 6:06	TDD	2844772
o-Xylene	ND		0.068	50	10/30/08 6:06	TDD	2844772
Xylenes,Total	0.84		0.338	50	10/30/08 6:06	TDD	2844772
Surr: 1,2-Dichloroethane-d4	89.8	%	67-158	50	10/30/08 6:06	TDD	2844772
Surr: 4-Bromofluorobenzene	95.9	%	84-112	50	10/30/08 6:06	TDD	2844772
Surr: Toluene-d8	99.3	%	89-112	50	10/30/08 6:06	TDD	2844772

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	10/21/2008 11:40	Field	1.14

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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Client Sample ID: SB/MW-31 @ 8 **Collected:** 10/21/2008 11:50 **SPL Sample ID:** 08100899-18

Site: PANTRY 585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PERCENT MOISTURE				**MCL**	**D2216**	**Units: wt%**	
Percent Moisture	14		0.1	1	10/29/08 9:16	RDH	2844454
VOLATILE ORGANICS: METHOD 8260B+MTBE+NAPHTHALE				**MCL**	**SW8260B**	**Units: mg/Kg-dry**	
Benzene	0.6		0.052	50	10/30/08 6:34	TDD	2844773
Ethylbenzene	0.28		0.052	50	10/30/08 6:34	TDD	2844773
Methyl tert-butyl ether	0.34		0.26	50	10/30/08 6:34	TDD	2844773
Naphthalene	ND		0.26	50	10/30/08 6:34	TDD	2844773
Toluene	ND		0.052	50	10/30/08 6:34	TDD	2844773
m,p-Xylene	0.83		0.1	50	10/30/08 6:34	TDD	2844773
o-Xylene	0.12		0.052	50	10/30/08 6:34	TDD	2844773
Xylenes,Total	0.95		0.26	50	10/30/08 6:34	TDD	2844773
Surr: 1,2-Dichloroethane-d4	89.2		% 67-158	50	10/30/08 6:34	TDD	2844773
Surr: 4-Bromofluorobenzene	98.0		% 84-112	50	10/30/08 6:34	TDD	2844773
Surr: Toluene-d8	100		% 89-112	50	10/30/08 6:34	TDD	2844773

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	10/21/2008 11:50	Field	0.89

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: SB/MW-3 @ 5 **Collected:** 10/21/2008 11:10 **SPL Sample ID:** 08100899-19

Site: PANTRY 585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PERCENT MOISTURE				**MCL**	**D2216**	**Units: wt%**	
Percent Moisture	20		0.1	1	10/29/08 9:16	RDH	2844455
VOLATILE ORGANICS: METHOD 8260B+MTBE+NAPHTHALE				**MCL**	**SW8260B**	**Units: mg/Kg-dry**	
Benzene	12		0.54	500	10/30/08 7:02	TDD	2844774
Ethylbenzene	22		0.54	500	10/30/08 7:02	TDD	2844774
Methyl tert-butyl ether	ND		2.7	500	10/30/08 7:02	TDD	2844774
Naphthalene	7.7		2.7	500	10/30/08 7:02	TDD	2844774
Toluene	71		0.54	500	10/30/08 7:02	TDD	2844774
m,p-Xylene	75		1.1	500	10/30/08 7:02	TDD	2844774
o-Xylene	31		0.54	500	10/30/08 7:02	TDD	2844774
Xylenes,Total	106		2.7	500	10/30/08 7:02	TDD	2844774
Surr: 1,2-Dichloroethane-d4	89.7		% 67-158	500	10/30/08 7:02	TDD	2844774
Surr: 4-Bromofluorobenzene	99.2		% 84-112	500	10/30/08 7:02	TDD	2844774
Surr: Toluene-d8	98.4		% 89-112	500	10/30/08 7:02	TDD	2844774

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	10/21/2008 11:10	Field	0.86

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

Quality Control Documentation

LAFAYETTE LABORATORY
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Quality Control Report

ATC ASSOCIATES, INC.

PANTRY 585

Analysis: PERCENT MOISTURE
Method: D2216

WorkOrder: 08100899
Lab Batch ID: R191238

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08100899-01A	SB/MW-14 @ 5
08100899-02A	SB/MW-15 @5
08100899-03A	SB/MW-16 @ 5
08100899-04A	SB/MW-17 @ 10
08100899-05A	SB-MW-18 @ 4
08100899-06A	SB/MW-19 @ 6
08100899-07A	SB/MW-20 @ 5
08100899-08A	SB/MW-21 @ 8
08100899-09A	SB/MW-22 @ 5
08100899-10A	SB/MW-23 @ 5
08100899-11A	SB/MW-24 @ 4
08100899-12A	SB/MW-25 @ 5
08100899-13A	SB/MW-26 @ 8
08100899-14A	SB/MW-27 @ 6
08100899-15A	SB/MW-28 @ 6
08100899-16A	SB/MW-29 @ 5
08100899-17A	SB/MW-30 @ 5
08100899-18A	SB/MW-31 @ 8
08100899-19A	SB/MW-3 @ 5

Sample Duplicate

Original Sample: 08100899-19
RunID: WET_081030C-2844455 Units: wt%
Analysis Date: 10/29/2008 9:16 Analyst: RDH

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Percent Moisture	20	20.2	0.49	20

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

ATC ASSOCIATES, INC.

PANTRY 585

Analysis: Volatile Organics: Method 8260B+MTBE+Naphthalene
Method: SW8260B

WorkOrder: 08100899
Lab Batch ID: 102808A3

Method Blank

RunID: HB_081029A-2845096 Units: ug/Kg
Analysis Date: 10/29/2008 11:56 Analyst: NDG
Preparation Date: 10/29/2008 11:56 Prep By: Method: SW5035

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	5.0
Naphthalene	ND	5.0
Toluene	ND	1.0
m,p-Xylene	ND	2.0
o-Xylene	ND	1.0
Xylenes,Total	ND	5.0
Surr: 1,2-Dichloroethane-d4	107.2	67-158
Surr: 4-Bromofluorobenzene	102.6	84-112
Surr: Toluene-d8	103.4	89-112

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08100899-04A	SB/MW-17 @ 10
08100899-09A	SB/MW-22 @ 5
08100899-10A	SB/MW-23 @ 5
08100899-12A	SB/MW-25 @ 5
08100899-13A	SB/MW-26 @ 8
08100899-14A	SB/MW-27 @ 6
08100899-15A	SB/MW-28 @ 6

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: HB_081029A-2845094 Units: ug/Kg
Analysis Date: 10/29/2008 10:59 Analyst: NDG
Preparation Date: 10/29/2008 10:59 Prep By: Method: SW5035

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	50.0	43.5	87.1	50.0	43.7	87.3	0.3	21	77	121
Ethylbenzene	50.0	43.8	87.6	50.0	42.9	85.8	2.1	30	67	135
Methyl tert-butyl ether	50.0	52.6	105	50.0	52.6	105	0.0	30	80	129
Naphthalene	50.0	48.5	97.0	50.0	51.9	104	6.9	30	72	129
Toluene	50.0	47.2	94.4	50.0	46.2	92.3	2.2	20	79	123
m,p-Xylene	100	93.6	93.6	100	92.0	92.0	1.7	30	66	133
o-Xylene	50.0	47.3	94.5	50.0	47.0	94.1	0.4	30	71	134
Xylenes,Total	150.0	140.9	93.89	150.0	139.0	92.72	1.3	30		
Surr: 1,2-Dichloroethane-d4	50.0	47.6	95.2	50.0	49.1	98.2	3.1	30	67	158
Surr: 4-Bromofluorobenzene	50.0	48.6	97.1	50.0	49.8	99.6	2.5	30	84	112
Surr: Toluene-d8	50.0	49.1	98.3	50.0	49.4	98.8	0.6	30	89	112

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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Quality Control Report

ATC ASSOCIATES, INC.

PANTRY 585

Analysis: Volatile Organics: Method 8260B+MTBE+Naphthalene
Method: SW8260B

WorkOrder: 08100899
Lab Batch ID: R191177

Method Blank

RunID: HB_081028A-2843439 Units: ug/Kg
Analysis Date: 10/28/2008 14:27 Analyst: RP
Preparation Date: 10/28/2008 14:27 Prep By: Method: SW5035

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	5.0
Naphthalene	ND	5.0
Toluene	ND	1.0
m,p-Xylene	ND	2.0
o-Xylene	ND	1.0
Xylenes,Total	ND	5.0
Surr: 1,2-Dichloroethane-d4	111.3	67-158
Surr: 4-Bromofluorobenzene	101.7	84-112
Surr: Toluene-d8	99.3	89-112

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08100899-01A	SB/MW-14 @ 5
08100899-02A	SB/MW-15 @5
08100899-03A	SB/MW-16 @ 5
08100899-05A	SB-MW-18 @ 4
08100899-07A	SB/MW-20 @ 5
08100899-08A	SB/MW-21 @ 8

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: HB_081028A-2843434 Units: ug/Kg
Analysis Date: 10/28/2008 13:01 Analyst: RP
Preparation Date: 10/28/2008 13:01 Prep By: Method: SW5035

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	50.0	45.2	90.4	50.0	44.8	89.5	0.9	21	77	121
Ethylbenzene	50.0	44.1	88.2	50.0	42.1	84.2	4.7	30	67	135
Methyl tert-butyl ether	50.0	54.2	108	50.0	54.3	109	0.1	30	80	129
Naphthalene	50.0	53.9	108	50.0	52.5	105	2.6	30	72	129
Toluene	50.0	48.1	96.2	50.0	46.0	91.9	4.6	20	79	123
m,p-Xylene	100	93.3	93.3	100	89.1	89.1	4.6	30	66	133
o-Xylene	50.0	47.7	95.5	50.0	45.9	91.7	4.0	30	71	134
Xylenes,Total	150	141	94.0	150	135	90.0	4.4	30		
Surr: 1,2-Dichloroethane-d4	50.0	48.1	96.2	50.0	49.0	97.9	1.8	30	67	158
Surr: 4-Bromofluorobenzene	50.0	49.9	99.8	50.0	49.3	98.6	1.1	30	84	112
Surr: Toluene-d8	50.0	48.5	97.0	50.0	49.4	98.9	1.9	30	89	112

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
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Quality Control Report

ATC ASSOCIATES, INC.

PANTRY 585

Analysis: Volatile Organics: Method 8260B+MTBE+Naphthalene
Method: SW8260B

WorkOrder: 08100899
Lab Batch ID: R191264

Method Blank

RunID: HA_081029B-2844760 Units: ug/L
Analysis Date: 10/30/2008 0:28 Analyst: TDD
Preparation Date: 10/30/2008 0:28 Prep By: Method: SW5035

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	5.0
Naphthalene	ND	5.0
Toluene	ND	1.0
m,p-Xylene	ND	2.0
o-Xylene	ND	1.0
Xylenes,Total	ND	5.0
Surr: 1,2-Dichloroethane-d4	91.5	74-133
Surr: 4-Bromofluorobenzene	99.4	74-116
Surr: Toluene-d8	100.8	84-112

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08100899-11A	SB/MW-24 @ 4
08100899-17A	SB/MW-30 @ 5
08100899-18A	SB/MW-31 @ 8
08100899-19A	SB/MW-3 @ 5

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: HA_081029B-2844758 Units: ug/L
Analysis Date: 10/29/2008 23:03 Analyst: TDD

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	50.0	46.6	93.2	50.0	48.1	96.3	3.2	23	79	124
Ethylbenzene	50.0	49.2	98.5	50.0	50.8	102	3.1	16	79	125
Methyl tert-butyl ether	50.0	47.4	94.9	50.0	48.7	97.4	2.6	23	77	125
Naphthalene	50.0	50.2	100	50.0	49.8	99.7	0.8	27	72	132
Toluene	50.0	46.6	93.3	50.0	48.6	97.1	4.0	21	79	124
m,p-Xylene	100	96.4	96.4	100	99.1	99.1	2.8	20	77	132
o-Xylene	50.0	49.4	98.8	50.0	50.0	100	1.3	17	76	127
Xylenes,Total	150.0	145.8	97.20	150.0	149.1	99.46	2.3	20	76	130
Surr: 1,2-Dichloroethane-d4	50.0	47.7	95.3	50.0	47.8	95.6	0.2	30	74	133
Surr: 4-Bromofluorobenzene	50.0	50.4	101	50.0	49.8	99.6	1.3	30	74	116
Surr: Toluene-d8	50.0	50.4	101	50.0	49.6	99.1	1.8	30	84	112

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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Quality Control Report

ATC ASSOCIATES, INC.

PANTRY 585

Analysis: Volatile Organics: Method 8260B+MTBE+Naphthalene
Method: SW8260B

WorkOrder: 08100899
Lab Batch ID: R191355

Method Blank

RunID: HA_081030A-2846140 Units: ug/L
Analysis Date: 10/30/2008 12:08 Analyst: RP
Preparation Date: 10/30/2008 12:08 Prep By: Method: SW5035

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08100899-06A	SB/MW-19 @ 6
08100899-16A	SB/MW-29 @ 5

Analyte	Result	Rep Limit
Benzene	ND	1.0
Methyl tert-butyl ether	ND	5.0
Naphthalene	ND	5.0
Surr: 1,2-Dichloroethane-d4	92.8	74-133
Surr: 4-Bromofluorobenzene	97.4	74-116
Surr: Toluene-d8	98.8	84-112

Methanolic Preparation Blank

RunID: HA_081030A-2846141 Units: ug/Kg
Analysis Date: 10/30/2008 12:36 Analyst: RP
Preparation Date: 10/30/2008 12:36 Prep By: Method: SW5035

Analyte	Result	Rep Limit
Benzene	ND	250
Methyl tert-butyl ether	ND	250
Naphthalene	ND	250
Surr: 1,2-Dichloroethane-d4	91.8	62-134
Surr: 4-Bromofluorobenzene	98.4	75-128
Surr: Toluene-d8	100.5	78-120

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: HA_081030A-2846138 Units: ug/L
Analysis Date: 10/30/2008 10:42 Analyst: RP

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	50.0	47.7	95.4	50.0	47.2	94.4	1.0	23	79	124
Methyl tert-butyl ether	50.0	48.7	97.3	50.0	49.3	98.6	1.3	23	77	125
Naphthalene	50.0	51.9	104	50.0	51.0	102	1.8	27	72	132
Surr: 1,2-Dichloroethane-d4	50.0	47.7	95.5	50.0	48.4	96.9	1.4	30	74	133
Surr: 4-Bromofluorobenzene	50.0	50.6	101	50.0	50.2	100	0.8	30	74	116
Surr: Toluene-d8	50.0	49.5	99.0	50.0	49.1	98.2	0.8	30	84	112

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

ATC ASSOCIATES, INC.

PANTRY 585

Analysis: Volatile Organics: Method 8260B+MTBE+Naphthalene
Method: SW8260B

WorkOrder: 08100899
Lab Batch ID: R191355

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08101043-16
RunID: HA_081030A-2846265 Units: ug/Kg
Analysis Date: 10/30/2008 18:46 Analyst: RP

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	2500	1990	76.6	2500	1990	76.5	0	22	39	150
Methyl tert-butyl ether	ND	2500	1960	78.2	2500	1950	77.8	0	30	50	150
Naphthalene	ND	2500	1500	60.0	2500	1600	63.9	0	30	50	150
Surr: 1,2-Dichloroethane-d4	ND	2500	2010	80.6	2500	2010	80.2	0	30	62	134
Surr: 4-Bromofluorobenzene	ND	2500	2230	89.3	2500	2240	89.7	0	30	75	128
Surr: Toluene-d8	ND	2500	2160	86.4	2500	2220	88.8	0	30	78	120

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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Quality Control Report

ATC ASSOCIATES, INC.

PANTRY 585

Analysis: Volatile Organics: Method 8260B+MTBE+Naphthalene
Method: SW8260B
WorkOrder: 08100899
Lab Batch ID: R191423

Method Blank

RunID: HA_081031A-2847708 Units: ug/L
Analysis Date: 10/31/2008 11:45 Analyst: DN
Preparation Date: 10/31/2008 11:45 Prep By: Method: SW5035

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08100899-06A	SB/MW-19 @ 6
08100899-16A	SB/MW-29 @ 5

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Naphthalene	ND	5.0
Toluene	ND	1.0
m,p-Xylene	ND	2.0
o-Xylene	ND	1.0
Xylenes,Total	ND	5.0
Surr: 1,2-Dichloroethane-d4	93.9	74-133
Surr: 4-Bromofluorobenzene	95.8	74-116
Surr: Toluene-d8	99.1	84-112

Methanolic Preparation Blank

RunID: HA_081031A-2847709 Units: ug/Kg
Analysis Date: 10/31/2008 12:14 Analyst: DN
Preparation Date: 10/31/2008 12:14 Prep By: Method: SW5035

Analyte	Result	Rep Limit
Benzene	ND	250
Ethylbenzene	ND	250
Naphthalene	ND	250
Toluene	ND	250
m,p-Xylene	ND	250
o-Xylene	ND	250
Xylenes,Total	ND	250
Surr: 1,2-Dichloroethane-d4	92.3	62-134
Surr: 4-Bromofluorobenzene	99.5	75-128
Surr: Toluene-d8	99.5	78-120

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: HA_081031A-2847706 Units: ug/L
Analysis Date: 10/31/2008 10:19 Analyst: DN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	50.0	46.1	92.2	50.0	47.2	94.5	2.4	23	79	124
Ethylbenzene	50.0	49.8	99.6	50.0	51.5	103	3.4	16	79	125

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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Quality Control Report

ATC ASSOCIATES, INC.

PANTRY 585

Analysis: Volatile Organics: Method 8260B+MTBE+Naphthalene
Method: SW8260B
WorkOrder: 08100899
Lab Batch ID: R191423

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: HA_081031A-2847706 Units: ug/L
Analysis Date: 10/31/2008 10:19 Analyst: DN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Naphthalene	50.0	55.4	111	50.0	52.2	104	6.0	27	72	132
Toluene	50.0	48.2	96.4	50.0	48.9	97.8	1.4	21	79	124
m,p-Xylene	100	98.6	98.6	100	101	101	2.4	20	77	132
o-Xylene	50.0	50.1	100	50.0	51.3	103	2.3	17	76	127
Xylenes,Total	150.0	148.7	99.15	150.0	152.3	101.5	2.3	20	76	130
Surr: 1,2-Dichloroethane-d4	50.0	48.0	96.0	50.0	48.2	96.4	0.4	30	74	133
Surr: 4-Bromofluorobenzene	50.0	50.3	101	50.0	50.8	102	1.0	30	74	116
Surr: Toluene-d8	50.0	48.8	97.6	50.0	48.6	97.2	0.4	30	84	112

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

Sample Receipt Checklist

And

Chain of Custody

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Sample Receipt Checklist

Workorder:	**08100899**	Received By:	**S_T**
Date and Time Received:	**10/22/2008 9:51:00 AM**	Carrier name:	**FedEx-Eco 2nd Day PM**
Temperature:	**4.0°C**	Chilled by:	**Water Ice**

1.	**Shipping container/cooler in good condition?**	Yes ☑	No ☐	Not Present ☐
2.	**Custody seals intact on shippping container/cooler?**	Yes ☑	No ☐	Not Present ☐
3.	**Custody seals intact on sample bottles?**	Yes ☐	No ☑	Not Present ☐
4.	**Chain of custody present?**	Yes ☑	No ☐	
5.	**Chain of custody signed when relinquished and received?**	Yes ☑	No ☐	
6.	**Chain of custody agrees with sample labels?**	Yes ☑	No ☐	
7.	**Samples in proper container/bottle?**	Yes ☑	No ☐	
8.	**Sample containers intact?**	Yes ☑	No ☐	
9.	**Sufficient sample volume for indicated test?**	Yes ☑	No ☐	
10.	**All samples received within holding time?**	Yes ☑	No ☐	
11.	**Container/Temp Blank temperature in compliance?**	Yes ☑	No ☐	
12.	**Water - VOA vials have zero headspace?**	Yes ☑	No ☐	VOA Vials Not Present ☐
13.	**Water - Preservation checked upon receipt (except VOA*)?**	Yes ☑	No ☐	Not Applicable ☐

***VOA Preservation Checked After Sample Analysis**

SPL Representative: _____ **Contact Date & Time:** _____

Client Name Contacted: _____

Non Conformance Issues: _____

Client Instructions: _____

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No. 272506

08100899

page 1 of 2

Client Name: ATC ASSOCIATES

Address:

Phone/Fax:

Client Contact: JAKE WHITTLE Email:

Project Name/No.:

Site Name: DANTAY 585

Site Location: ANDERSON, SC

Invoice To: SAFE Ph:

matrix: W=water S=soil O=oil SL=sludge X=other

bottle: P=plastic A=amber glass G=glass V=vial X=other

size: 1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other

pres.: 1=HCl 2=HNO3 3=H2SO4 X=other

Requested Analysis

SAMPLE ID	DATE	TIME	comp	grab	matrix	bottle	size	pres.	Number of Containers	8260 - BTEX/Naph							
SB/MW-14 at 5	10/21/08	13:50		X	Soil	X	X	X	4	X							
SB/MW-15 at 5		14:10								X							
SB/MW-16 at 5		1310								X							
SB/MW-17 at 10		0900								X							
SB/MW-18 at 14		12:30								X							
SB/MW-19 at 16		11:20								X							
SB/MW-20 at 5		13:20								X							
SB/MW-21 at 8		13:40								X							
SB/MW-22 at 5		1045								X							
SB/MW-23 at 5		12:20								X							

Client/Consultant Remarks: 5-DAY TAT

Laboratory remarks: Cooler 2-129 (9)

Intact? Y N

Ice? Y N

Temp: 4.0

Requested TAT

Contract ☐ 72hr ☐

24hr ☐ Standard ☒

48hr ☐

Other ☐ _____

Special Reporting Requirements Results: Fax ☐ Email ☐ PDF ☐

Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☐

Special Detection Limits (specify): 10/21

PM review (initial):

1. Relinquished by Sampler: ATC	date 10/21	time 17:00	2. Received by: FedEx
3. Relinquished by: FedEx	date 10/22	time 9:51	4. Received by:
5. Relinquished by:	date	time	6. Received by Laboratory: Sheila Graham

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No. 272507

page 2 of 2

Client Name: ATC ASSOC.
Address: CHARLOTTE NC
Phone/Fax: 704-529-3200
Client Contact: SAKE Email:
Project Name/No.:
Site Name: DANTAY 585
Site Location: ANDERSON, SC.
Invoice To: Sake Ph:

matrix: W=water S=soil O=oil SL=sludge X=other
bottle: P=plastic A=amber glass G=glass V=vial X=other
size: 1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other
pres.: 1=HCl 2=HNO3 3=H2SO4 X=other

Requested Analysis

SAMPLE ID	DATE	TIME	comp	grab	matrix	bottle	size	pres.	Number of Containers	8260-BTEX/NAPH
SB/MW-24 at 4	10/21/08	12:10		X	SL	X	X	X	4	X
SB/MW-25 at 5		13:30								X
SB/MW-26 at 8		11:00								X
SB/MW-27 at 6		11:30								X
SB/MW-28 at 6		10:00								X
SB/MW-29 at 5		09:40								X
SB/MW-30 at 5		11:40								X
SB/MW-31 at 8		11:50								X
SB/DMW-3 at 5'		11:10								X

Client/Consultant Remarks: 5-DAY TAT.

Laboratory remarks: c/s on cooler

Intact? ☑ Y ☐ N
Ice? ☑ Y ☐ N
Temp: 4.0

Requested TAT

Contract ☐ 72hr ☐
24hr ☐ Standard ☒
48hr ☐
Other ☐ _____

Special Reporting Requirements Results: Fax ☐ Email ☐ PDF ☐
Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☐

Special Detection Limits (specify):

PM review (initial):

1. Relinquished by Sampler: ATC	date 10/21/08	time 17:00	2. Received by: Fedex
3. Relinquished by: Fedex	date 10/22/08	time 9:51	4. Received by:
5. Relinquished by:	date	time	6. Received by Laboratory: Sheila Graham

☐ 8880 Interchange Drive
Houston, TX 77054 (713) 660-0901

☒ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

☐ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

DO NOT REMOVE THIS AREA

FedEx Express **US Airbill**

FedEx Tracking Number 8670 9128 4071

0215

1 From This section can be removed for Recipient's use.

Date 1/21/08 FedEx Tracking Number 867091284071

Sender's Name Ray Lewanske Phone 704 529 2200

Company ~~[illegible]~~ ATC [illegible]

Address 2417-A Trade Park CT Dept./Floor/Suite/Room

City [illegible] State NC ZIP 28217

2 Your Internal Billing Reference

3 To

Recipient's Name Phone

Company

Recipient's Address

We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept./Floor/Suite/Room

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City State ZIP

4a Express Package Service *Packages up to 150 lbs.*

- ☐ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- ☒ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- ☐ FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- ☐ FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- ☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate. * To most locations.

4b Express Freight Service *Packages over 150 lbs.*

- ☐ FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- ☐ FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- ☐ FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation: ** To most locations.

5 Packaging

- ☐ FedEx Envelope*
- ☐ FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- ☐ FedEx Box
- ☐ FedEx Tube
- ☒ Other

* Declared value limit $500.

6 Special Handling

- ☐ **SATURDAY Delivery** — Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- ☐ **HOLD Weekday at FedEx Location** — Not available for FedEx First Overnight.
- ☐ **HOLD Saturday at FedEx Location** — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods?

- ☒ No
- ☐ Yes — As per attached Shipper's Declaration.
- ☐ Yes — Shipper's Declaration not required.
- ☐ Dry Ice — Dry ice, 9, UN 1845 ____ x ____ kg
- ☐ Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- ☐ Sender — Acct. No. in Section 1 will be billed.
- ☒ Recipient
- ☐ Third Party
- ☐ Credit Card
- ☐ Cash/Check

Total Packages 1 Total Weight 48

Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

8 Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

- ☐ No Signature Required — Package may be left without obtaining a signature for delivery.
- ☐ Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*
- ☐ Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. *Fee applies.*

519

fedex.com 1.800.463.3339

FedEx Express **US Airbill**

FedEx Tracking Number 0670 9128 3914

1 From This portion can be removed for Recipient's records.

Date 10/21/08 FedEx Tracking Number 867091283914

Sender's Name Roy Szymanske Phone 24 528 3900

Company NC Ag...

Address 3417-A Trade Park CT Dept./Floor/Suite/Room

City Charlotte State NC ZIP 28217

2 Your Internal Billing Reference

3 To

Recipient's Name [illegible] Phone 337 232-4776

Company [illegible]

Recipient's Address [illegible] Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City [illegible] State [illegible] ZIP 70593-5000

0215

4a Express Package Service — *Packages up to 150 lbs.*

- [ ] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [x] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelopes are not available. Minimum charge: One-pound rate.

* To most locations.

4b Express Freight Service — *Packages over 150 lbs.*

- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation.

** To most locations.

5 Packaging

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other

* Declared value limit $500.

6 Special Handling (Include FedEx address in Section 3.)

- [ ] SATURDAY Delivery — Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] HOLD Weekday at FedEx Location — Not available for FedEx First Overnight.
- [ ] HOLD Saturday at FedEx Location — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? (One box must be checked.)

- [x] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

7 Payment Bill to: Enter FedEx Acct. No. or Credit Card No. below.

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [x] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

[redacted] 0705 [redacted]

Total Packages 1 Total Weight 50 Credit Card Auth.

Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

8 Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

- [ ] No Signature Required — Package may be left without obtaining a
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may

519

RECIPIENT PEEL HERE

FedEx 1.800.463.3339

333

APPENDIX J

Groundwater Sample Analytical Reports

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Case Narrative for:

ATC ASSOCIATES, INC.

Certificate of Analysis Number:

08100735

Report To:		**Project Name:**	**PANTRY 585**	
ATC ASSOCIATES, INC.		**Site:**	**PANTRY 585**	
JAKE WHITTLE		**Site Address:**		
3417-A TRADE PARK CT.			**ANDERSON**	**SC**
CHARLOTTE		**PO Number:**		
NC		**State:**	**South Carolina**	
28217-		**State Cert. No.:**	**73004001**	
ph: (704) 529-3200	**fax:**	**Date Reported:**	**10/31/2008**	

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data for those samples spiked by the laboratory and may be applicable to other samples of similar matrix from the site. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process. If insufficient sample is supplied for MS/MSD, a Laboratory Control Sample (LCS) and a Laboratory Control Sample Duplicate (LCSD) are reported with the analytical batch and serve as the batch quality control (QC).

Results are reported on a Wet Weight Basis unless otherwise noted in the sample unit field as -dry.

The collection of samples using encores, terracores or other field collection devices may result in inconsistent initial sample weights for the parent sample and MS/MSD samples.

The MS/MSD recovery and precision data are calculated based on detected spike concentrations that are adjusted for initial sample weights. As a result of the variability between initial sample weights, the calculated RPD may have increased bias.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

TOTAL NUMBER OF PAGES IN THIS REPORT: _____ PAGES

10/31/2008

Amy K. Jackson
Project Manager

Date

Test results meet all requirements of NELAC, unless specified in the narrative.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

ATC ASSOCIATES, INC.

Certificate of Analysis Number:

08100735

Report To: ATC ASSOCIATES, INC.
JAKE WHITTLE
3417-A TRADE PARK CT.

CHARLOTTE
NC
28217-
ph: (704) 529-3200 fax: (704) 529-3272

Fax To:

Project Name: PANTRY 585
Site: PANTRY 585
Site Address:
ANDERSON SC
PO Number:
State: South Carolina
State Cert. No.: 73004001
Date Reported: 10/31/2008

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
MW-1	08100735-01	Water	10/16/2008 1:20:00 PM	10/17/2008 10:00:00 AM	269005,269004	☐
DMW-1	08100735-02	Water	10/16/2008 12:45:00 PM	10/17/2008 10:00:00 AM	269005,269004	☐
DMW-2	08100735-03	Water	10/16/2008 9:15:00 AM	10/17/2008 10:00:00 AM	269005,269004	☐
DMW-3	08100735-04	Water	10/16/2008 12:30:00 PM	10/17/2008 10:00:00 AM	269005,269004	☐
MW-4	08100735-05	Water	10/16/2008 11:00:00 AM	10/17/2008 10:00:00 AM	269005,269004	☐
MW-5	08100735-06	Water	10/16/2008 9:00:00 AM	10/17/2008 10:00:00 AM	269005,269004	☐
MW-8	08100735-07	Water	10/16/2008 1:15:00 PM	10/17/2008 10:00:00 AM	269005,269004	☐
MW-9	08100735-08	Water	10/16/2008 9:30:00 AM	10/17/2008 10:00:00 AM	269005,269004	☐
MW-12	08100735-09	Water	10/16/2008 12:00:00 PM	10/17/2008 10:00:00 AM	269005,269004	☐
MW-16	08100735-10	Water	10/16/2008 11:45:00 AM	10/17/2008 10:00:00 AM	269005,269004	☐
MW-18	08100735-11	Water	10/16/2008 10:30:00 AM	10/17/2008 10:00:00 AM	269005,269004	☐
MW-19	08100735-12	Water	10/16/2008 12:15:00 PM	10/17/2008 10:00:00 AM	269005,269004	☐
MW-20	08100735-13	Water	10/16/2008 9:45:00 AM	10/17/2008 10:00:00 AM	269005,269004	☐
MW-21	08100735-14	Water	10/16/2008 10:45:00 AM	10/17/2008 10:00:00 AM	269005,269004	☐
MW-23	08100735-15	Water	10/16/2008 10:15:00 AM	10/17/2008 10:00:00 AM	269005,269004	☐
MW-24	08100735-16	Water	10/16/2008 10:00:00 AM	10/17/2008 10:00:00 AM	269005,269004	☐
MW-29	08100735-17	Water	10/16/2008 1:30:00 PM	10/17/2008 10:00:00 AM	269005,269004	☐
MW-30	08100735-18	Water	10/16/2008 11:30:00 AM	10/17/2008 10:00:00 AM	269005,269004	☐
MW-31	08100735-19	Water	10/16/2008 11:15:00 AM	10/17/2008 10:00:00 AM	269005,269004	☐

Amy K. Jackson
Project Manager

10/31/2008
Date

Ron Benjamin
Laboratory Director

Tristan Davis
Quality Assurance Officer

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID MW-1 **Collected:** 10/16/2008 13:20 **SPL Sample ID:** 08100735-01

Site: **PANTRY 585**

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP				**MCL**	**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND		0.021	1	10/30/08 12:51	MAR	2846866
Surr: 1-Chloro-2-fluorobenzene	59.3	%	33-151	1	10/30/08 12:51	MAR	2846866

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	10/30/2008 9:31	DGP	1.03

IRON, FERROUS				**MCL**	**HACH 8146**	**Units: mg/L**	
Iron, Ferrous	2.89		0.05	1	10/17/08 17:15	JL	2833908
NITRATE (AS N)				**MCL**	**M4500-NO3 E**	**Units: mg/L**	
Nitrate (As N)	0.022		0.01	1	10/26/08 13:00	KDS	2839810
SULFATE BY ASTM D516-90				**MCL**	**ASTM D516-90**	**Units: mg/L**	
Sulfate	ND		5	1	10/22/08 9:00	SRA	2834506
TOTAL METALS BY METHOD 200.8				**MCL**	**E200.8**	**Units: ug/L**	
Lead	ND		10	1	10/24/08 9:20	RJD	2838356

Prep Method	Prep Date	Prep Initials	Prep Factor
E200.8	10/21/2008 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**	
3,3-Dimethyl-1-butanol	ND		1000	100	10/24/08 16:10	RP	2840620
Diisopropyl ether	730		500	100	10/24/08 16:10	RP	2840620
Ethanol	ND		10000	100	10/24/08 16:10	RP	2840620
t-Butyl alcohol	2200		1000	100	10/24/08 16:10	RP	2840620
tert-Amyl alcohol	ND		1000	100	10/24/08 16:10	RP	2840620
tert-Amyl methyl ether	ND		500	100	10/24/08 16:10	RP	2840620
tert-Butyl ethyl ether	ND		500	100	10/24/08 16:10	RP	2840620
tert-Butyl formate	ND		100	100	10/24/08 16:10	RP	2840620
1,2-Dichloroethane	ND		500	100	10/24/08 16:10	RP	2840620
Benzene	14000		500	100	10/24/08 16:10	RP	2840620
Ethylbenzene	3100		500	100	10/24/08 16:10	RP	2840620
Methyl tert-butyl ether	4000		500	100	10/24/08 16:10	RP	2840620
Naphthalene	1500		500	100	10/24/08 16:10	RP	2840620
Toluene	24000		500	100	10/24/08 16:10	RP	2840620
m,p-Xylene	13000		500	100	10/24/08 16:10	RP	2840620
o-Xylene	5800		500	100	10/24/08 16:10	RP	2840620
Xylenes,Total	18800		500	100	10/24/08 16:10	RP	2840620
Surr: 1,2-Dichloroethane-d4	77.8	%	74-133	100	10/24/08 16:10	RP	2840620
Surr: 4-Bromofluorobenzene	101	%	74-116	100	10/24/08 16:10	RP	2840620
Surr: Toluene-d8	97.1	%	84-112	100	10/24/08 16:10	RP	2840620

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID DMW-1 **Collected:** 10/16/2008 12:45 **SPL Sample ID:** 08100735-02

Site: **PANTRY 585**

Analyses/Method	Result	QUAL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP					**MCL**	**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND			0.021	1	10/30/08 13:11	MAR	2846867
Surr: 1-Chloro-2-fluorobenzene	71.5		%	33-151	1	10/30/08 13:11	MAR	2846867

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	10/30/2008 9:31	DGP	1.05

IRON, FERROUS					**MCL**	**HACH 8146**	**Units: mg/L**	
Iron, Ferrous	ND			0.05	1	10/17/08 17:15	JL	2833905
NITRATE (AS N)					**MCL**	**M4500-NO3 E**	**Units: mg/L**	
Nitrate (As N)	0.099			0.01	1	10/26/08 13:00	KDS	2839813
SULFATE BY ASTM D516-90					**MCL**	**ASTM D516-90**	**Units: mg/L**	
Sulfate	41.6			10	2	10/22/08 9:00	SRA	2834509
TOTAL METALS BY METHOD 200.8					**MCL**	**E200.8**	**Units: ug/L**	
Lead	ND			10	1	10/24/08 9:57	RJD	2838364

Prep Method	Prep Date	Prep Initials	Prep Factor
E200.8	10/21/2008 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B					**MCL**	**SW8260B**	**Units: ug/L**	
3,3-Dimethyl-1-butanol	ND			10	1	10/23/08 14:05	DN	2837726
Diisopropyl ether	ND			5	1	10/23/08 14:05	DN	2837726
Ethanol	ND			100	1	10/23/08 14:05	DN	2837726
t-Butyl alcohol	ND			10	1	10/23/08 14:05	DN	2837726
tert-Amyl alcohol	ND			10	1	10/23/08 14:05	DN	2837726
tert-Amyl methyl ether	ND			5	1	10/23/08 14:05	DN	2837726
tert-Butyl ethyl ether	ND			5	1	10/23/08 14:05	DN	2837726
tert-Butyl formate	ND			1	1	10/23/08 14:05	DN	2837726
1,2-Dichloroethane	ND			5	1	10/23/08 14:05	DN	2837726
Benzene	85			5	1	10/23/08 14:05	DN	2837726
Ethylbenzene	19			5	1	10/23/08 14:05	DN	2837726
Methyl tert-butyl ether	33			5	1	10/23/08 14:05	DN	2837726
Naphthalene	ND			5	1	10/23/08 14:05	DN	2837726
Toluene	170			5	1	10/23/08 14:05	DN	2837726
m,p-Xylene	66			5	1	10/23/08 14:05	DN	2837726
o-Xylene	38			5	1	10/23/08 14:05	DN	2837726
Xylenes,Total	104			5	1	10/23/08 14:05	DN	2837726
Surr: 1,2-Dichloroethane-d4	83.4		%	74-133	1	10/23/08 14:05	DN	2837726
Surr: 4-Bromofluorobenzene	98.8		%	74-116	1	10/23/08 14:05	DN	2837726
Surr: Toluene-d8	101		%	84-112	1	10/23/08 14:05	DN	2837726

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID DMW-2 **Collected:** 10/16/2008 9:15 **SPL Sample ID:** 08100735-03

Site: **PANTRY 585**

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP				**MCL**	**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND		0.02	1	10/30/08 13:31	MAR	2846868
Surr: 1-Chloro-2-fluorobenzene	78.6		% 33-151	1	10/30/08 13:31	MAR	2846868

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	10/30/2008 9:31	DGP	1.02

IRON, FERROUS				**MCL**	**HACH 8146**	**Units: mg/L**	
Iron, Ferrous	ND		0.05	1	10/17/08 17:15	JL	2833909
NITRATE (AS N)				**MCL**	**M4500-NO3 E**	**Units: mg/L**	
Nitrate (As N)	0.021		0.01	1	10/26/08 13:00	KDS	2839814
SULFATE BY ASTM D516-90				**MCL**	**ASTM D516-90**	**Units: mg/L**	
Sulfate	ND		5	1	10/22/08 9:00	SRA	2834510
TOTAL METALS BY METHOD 200.8				**MCL**	**E200.8**	**Units: ug/L**	
Lead	ND		10	1	10/24/08 10:01	RJD	2838365

Prep Method	Prep Date	Prep Initials	Prep Factor
E200.8	10/21/2008 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**	
3,3-Dimethyl-1-butanol	ND		100	10	10/24/08 16:40	RP	2840621
Diisopropyl ether	ND		50	10	10/24/08 16:40	RP	2840621
Ethanol	ND		1000	10	10/24/08 16:40	RP	2840621
t-Butyl alcohol	ND		100	10	10/24/08 16:40	RP	2840621
tert-Amyl alcohol	ND		100	10	10/24/08 16:40	RP	2840621
tert-Amyl methyl ether	ND		50	10	10/24/08 16:40	RP	2840621
tert-Butyl ethyl ether	ND		50	10	10/24/08 16:40	RP	2840621
tert-Butyl formate	ND		10	10	10/24/08 16:40	RP	2840621
1,2-Dichloroethane	ND		50	10	10/24/08 16:40	RP	2840621
Benzene	59		50	10	10/24/08 16:40	RP	2840621
Ethylbenzene	72		50	10	10/24/08 16:40	RP	2840621
Methyl tert-butyl ether	ND		50	10	10/24/08 16:40	RP	2840621
Naphthalene	ND		50	10	10/24/08 16:40	RP	2840621
Toluene	440		50	10	10/24/08 16:40	RP	2840621
m,p-Xylene	260		50	10	10/24/08 16:40	RP	2840621
o-Xylene	120		50	10	10/24/08 16:40	RP	2840621
Xylenes,Total	380		50	10	10/24/08 16:40	RP	2840621
Surr: 1,2-Dichloroethane-d4	80.4		% 74-133	10	10/24/08 16:40	RP	2840621
Surr: 4-Bromofluorobenzene	102		% 74-116	10	10/24/08 16:40	RP	2840621
Surr: Toluene-d8	99.5		% 84-112	10	10/24/08 16:40	RP	2840621

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID DMW-3 **Collected:** 10/16/2008 12:30 **SPL Sample ID:** 08100735-04

Site: **PANTRY 585**

Analyses/Method	Result	QUAL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP					**MCL**	**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND			0.021	1	10/30/08 13:50	MAR	2846869
Surr: 1-Chloro-2-fluorobenzene	91.0		%	33-151	1	10/30/08 13:50	MAR	2846869

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	10/30/2008 9:31	DGP	1.03

IRON, FERROUS				**MCL**	**HACH 8146**	**Units: mg/L**	
Iron, Ferrous	ND		0.05	1	10/17/08 17:15	JL	2833910
NITRATE (AS N)				**MCL**	**M4500-NO3 E**	**Units: mg/L**	
Nitrate (As N)	0.022		0.01	1	10/26/08 13:00	KDS	2839815
SULFATE BY ASTM D516-90				**MCL**	**ASTM D516-90**	**Units: mg/L**	
Sulfate	ND		5	1	10/22/08 9:00	SRA	2834511
TOTAL METALS BY METHOD 200.8				**MCL**	**E200.8**	**Units: ug/L**	
Lead	ND		10	1	10/24/08 10:05	RJD	2838366

Prep Method	Prep Date	Prep Initials	Prep Factor
E200.8	10/21/2008 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**	
3,3-Dimethyl-1-butanol	ND		10	1	10/23/08 14:35	DN	2837727
Diisopropyl ether	ND		5	1	10/23/08 14:35	DN	2837727
Ethanol	ND		100	1	10/23/08 14:35	DN	2837727
t-Butyl alcohol	15		10	1	10/23/08 14:35	DN	2837727
tert-Amyl alcohol	ND		10	1	10/23/08 14:35	DN	2837727
tert-Amyl methyl ether	ND		5	1	10/23/08 14:35	DN	2837727
tert-Butyl ethyl ether	ND		5	1	10/23/08 14:35	DN	2837727
tert-Butyl formate	ND		1	1	10/23/08 14:35	DN	2837727
1,2-Dichloroethane	ND		5	1	10/23/08 14:35	DN	2837727
Benzene	ND		5	1	10/23/08 14:35	DN	2837727
Ethylbenzene	ND		5	1	10/23/08 14:35	DN	2837727
Methyl tert-butyl ether	ND		5	1	10/23/08 14:35	DN	2837727
Naphthalene	ND		5	1	10/23/08 14:35	DN	2837727
Toluene	8.1		5	1	10/23/08 14:35	DN	2837727
m,p-Xylene	5.3		5	1	10/23/08 14:35	DN	2837727
o-Xylene	ND		5	1	10/23/08 14:35	DN	2837727
Xylenes,Total	5.3		5	1	10/23/08 14:35	DN	2837727
Surr: 1,2-Dichloroethane-d4	81.5	%	74-133	1	10/23/08 14:35	DN	2837727
Surr: 4-Bromofluorobenzene	101	%	74-116	1	10/23/08 14:35	DN	2837727
Surr: Toluene-d8	98.1	%	84-112	1	10/23/08 14:35	DN	2837727

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID MW-4 **Collected:** 10/16/2008 11:00 **SPL Sample ID:** 08100735-05

Site: **PANTRY 585**

Analyses/Method	Result	QUAL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP					**MCL**	**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND			0.021	1	10/30/08 14:10	MAR	2846870
Surr: 1-Chloro-2-fluorobenzene	80.4		%	33-151	1	10/30/08 14:10	MAR	2846870

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	10/30/2008 9:31	DGP	1.03

IRON, FERROUS				**MCL**	**HACH 8146**	**Units: mg/L**	
Iron, Ferrous	1.2		0.05	1	10/17/08 17:15	JL	2833911
NITRATE (AS N)				**MCL**	**M4500-NO3 E**	**Units: mg/L**	
Nitrate (As N)	0.014		0.01	1	10/26/08 13:00	KDS	2839816
SULFATE BY ASTM D516-90				**MCL**	**ASTM D516-90**	**Units: mg/L**	
Sulfate	9.25		5	1	10/22/08 9:00	SRA	2834512
TOTAL METALS BY METHOD 200.8				**MCL**	**E200.8**	**Units: ug/L**	
Lead	39.8		10	1	10/24/08 10:10	RJD	2838367

Prep Method	Prep Date	Prep Initials	Prep Factor
E200.8	10/21/2008 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**	
3,3-Dimethyl-1-butanol	ND		10	1	10/23/08 15:06	DN	2837728
Diisopropyl ether	16		5	1	10/23/08 15:06	DN	2837728
Ethanol	ND		100	1	10/23/08 15:06	DN	2837728
t-Butyl alcohol	330		10	1	10/23/08 15:06	DN	2837728
tert-Amyl alcohol	ND		10	1	10/23/08 15:06	DN	2837728
tert-Amyl methyl ether	ND		5	1	10/23/08 15:06	DN	2837728
tert-Butyl ethyl ether	ND		5	1	10/23/08 15:06	DN	2837728
tert-Butyl formate	ND		1	1	10/23/08 15:06	DN	2837728
1,2-Dichloroethane	ND		5	1	10/23/08 15:06	DN	2837728
Benzene	110		5	1	10/23/08 15:06	DN	2837728
Ethylbenzene	13		5	1	10/23/08 15:06	DN	2837728
Methyl tert-butyl ether	120		5	1	10/23/08 15:06	DN	2837728
Naphthalene	ND		5	1	10/23/08 15:06	DN	2837728
Toluene	38		5	1	10/23/08 15:06	DN	2837728
m,p-Xylene	17		5	1	10/23/08 15:06	DN	2837728
o-Xylene	9.7		5	1	10/23/08 15:06	DN	2837728
Xylenes,Total	26.7		5	1	10/23/08 15:06	DN	2837728
Surr: 1,2-Dichloroethane-d4	82.4	%	74-133	1	10/23/08 15:06	DN	2837728
Surr: 4-Bromofluorobenzene	101	%	74-116	1	10/23/08 15:06	DN	2837728
Surr: Toluene-d8	96.8	%	84-112	1	10/23/08 15:06	DN	2837728

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID MW-5 **Collected:** 10/16/2008 9:00 **SPL Sample ID:** 08100735-06

Site: PANTRY 585

Analyses/Method	Result	QUAL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP					**MCL**	**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	0.24			0.02	1	10/30/08 18:36	MAR	2846874
Surr: 1-Chloro-2-fluorobenzene	68.2		%	33-151	1	10/30/08 18:36	MAR	2846874

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	10/30/2008 9:31	DGP	1.02

TOTAL METALS BY METHOD 200.8					**MCL**	**E200.8**	**Units: ug/L**	
Lead	15.6			10	1	10/24/08 10:14	RJD	2838368

Prep Method	Prep Date	Prep Initials	Prep Factor
E200.8	10/21/2008 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B					**MCL**	**SW8260B**	**Units: ug/L**	
3,3-Dimethyl-1-butanol	ND			2000	200	10/24/08 17:10	RP	2840622
Diisopropyl ether	ND			1000	200	10/24/08 17:10	RP	2840622
Ethanol	ND			20000	200	10/24/08 17:10	RP	2840622
t-Butyl alcohol	ND			2000	200	10/24/08 17:10	RP	2840622
tert-Amyl alcohol	ND			2000	200	10/24/08 17:10	RP	2840622
tert-Amyl methyl ether	ND			1000	200	10/24/08 17:10	RP	2840622
tert-Butyl ethyl ether	ND			1000	200	10/24/08 17:10	RP	2840622
tert-Butyl formate	ND			200	200	10/24/08 17:10	RP	2840622
1,2-Dichloroethane	ND			1000	200	10/24/08 17:10	RP	2840622
Benzene	25000			1000	200	10/24/08 17:10	RP	2840622
Ethylbenzene	4300			1000	200	10/24/08 17:10	RP	2840622
Methyl tert-butyl ether	ND			1000	200	10/24/08 17:10	RP	2840622
Naphthalene	1300			1000	200	10/24/08 17:10	RP	2840622
Toluene	49000			1000	200	10/24/08 17:10	RP	2840622
m,p-Xylene	16000			1000	200	10/24/08 17:10	RP	2840622
o-Xylene	7300			1000	200	10/24/08 17:10	RP	2840622
Xylenes,Total	23300			1000	200	10/24/08 17:10	RP	2840622
Surr: 1,2-Dichloroethane-d4	82.9		%	74-133	200	10/24/08 17:10	RP	2840622
Surr: 4-Bromofluorobenzene	103		%	74-116	200	10/24/08 17:10	RP	2840622
Surr: Toluene-d8	99.0		%	84-112	200	10/24/08 17:10	RP	2840622

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID MW-8 **Collected:** 10/16/2008 13:15 **SPL Sample ID:** 08100735-07

Site: **PANTRY 585**

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP				**MCL**	**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND		0.021	1	10/30/08 14:50	MAR	2846871
Surr: 1-Chloro-2-fluorobenzene	61.7		% 33-151	1	10/30/08 14:50	MAR	2846871

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	10/30/2008 9:31	DGP	1.03

IRON, FERROUS				**MCL**	**HACH 8146**	**Units: mg/L**	
Iron, Ferrous	ND		0.05	1	10/17/08 17:15	JL	2833912
NITRATE (AS N)				**MCL**	**M4500-NO3 E**	**Units: mg/L**	
Nitrate (As N)	ND		0.01	1	10/26/08 13:00	KDS	2839817
SULFATE BY ASTM D516-90				**MCL**	**ASTM D516-90**	**Units: mg/L**	
Sulfate	ND		5	1	10/22/08 9:00	SRA	2834513
TOTAL METALS BY METHOD 200.8				**MCL**	**E200.8**	**Units: ug/L**	
Lead	25.1		10	1	10/24/08 10:19	RJD	2838369

Prep Method	Prep Date	Prep Initials	Prep Factor
E200.8	10/21/2008 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**	
3,3-Dimethyl-1-butanol	ND		1000	100	10/27/08 18:17	DN	2842275
Diisopropyl ether	ND		500	100	10/27/08 18:17	DN	2842275
Ethanol	ND		10000	100	10/27/08 18:17	DN	2842275
t-Butyl alcohol	ND		1000	100	10/27/08 18:17	DN	2842275
tert-Amyl alcohol	ND		1000	100	10/27/08 18:17	DN	2842275
tert-Amyl methyl ether	ND		500	100	10/27/08 18:17	DN	2842275
tert-Butyl ethyl ether	ND		500	100	10/27/08 18:17	DN	2842275
tert-Butyl formate	ND		100	100	10/27/08 18:17	DN	2842275
1,2-Dichloroethane	ND		500	100	10/27/08 18:17	DN	2842275
Benzene	3400		500	100	10/27/08 18:17	DN	2842275
Ethylbenzene	3700		500	100	10/27/08 18:17	DN	2842275
Methyl tert-butyl ether	ND		500	100	10/27/08 18:17	DN	2842275
Naphthalene	1200		500	100	10/27/08 18:17	DN	2842275
Toluene	24000		500	100	10/27/08 18:17	DN	2842275
m,p-Xylene	15000		500	100	10/27/08 18:17	DN	2842275
o-Xylene	6300		500	100	10/27/08 18:17	DN	2842275
Xylenes,Total	21300		500	100	10/27/08 18:17	DN	2842275
Surr: 1,2-Dichloroethane-d4	81.9		% 74-133	100	10/27/08 18:17	DN	2842275
Surr: 4-Bromofluorobenzene	102		% 74-116	100	10/27/08 18:17	DN	2842275
Surr: Toluene-d8	97.3		% 84-112	100	10/27/08 18:17	DN	2842275

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID MW-9 **Collected:** 10/16/2008 9:30 **SPL Sample ID:** 08100735-08

Site: **PANTRY 585**

Analyses/Method	Result	QUAL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP					**MCL**	**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	0.22			0.021	1	10/30/08 18:56	MAR	2846875
Surr: 1-Chloro-2-fluorobenzene	64.0		%	33-151	1	10/30/08 18:56	MAR	2846875

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	10/30/2008 9:31	DGP	1.06

IRON, FERROUS					**MCL**	**HACH 8146**	**Units: mg/L**	
Iron, Ferrous	ND			0.05	1	10/17/08 17:15	JL	2833915
NITRATE (AS N)					**MCL**	**M4500-NO3 E**	**Units: mg/L**	
Nitrate (As N)	ND			0.01	1	10/26/08 13:00	KDS	2839820
SULFATE BY ASTM D516-90					**MCL**	**ASTM D516-90**	**Units: mg/L**	
Sulfate	65.4			10	2	10/22/08 9:00	SRA	2834516
TOTAL METALS BY METHOD 200.8					**MCL**	**E200.8**	**Units: ug/L**	
Lead	ND			10	1	10/24/08 10:23	RJD	2838370

Prep Method	Prep Date	Prep Initials	Prep Factor
E200.8	10/21/2008 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B					**MCL**	**SW8260B**	**Units: ug/L**	
3,3-Dimethyl-1-butanol	ND			5000	500	10/24/08 15:39	DN	2840973
Diisopropyl ether	3300			2500	500	10/24/08 15:39	DN	2840973
Ethanol	ND			50000	500	10/24/08 15:39	DN	2840973
t-Butyl alcohol	38000			5000	500	10/24/08 15:39	DN	2840973
tert-Amyl alcohol	ND			5000	500	10/24/08 15:39	DN	2840973
tert-Amyl methyl ether	ND			2500	500	10/24/08 15:39	DN	2840973
tert-Butyl ethyl ether	ND			2500	500	10/24/08 15:39	DN	2840973
tert-Butyl formate	ND			500	500	10/24/08 15:39	DN	2840973
1,2-Dichloroethane	ND			2500	500	10/24/08 15:39	DN	2840973
Benzene	30000			2500	500	10/24/08 15:39	DN	2840973
Ethylbenzene	3400			2500	500	10/24/08 15:39	DN	2840973
Methyl tert-butyl ether	93000			2500	500	10/24/08 15:39	DN	2840973
Naphthalene	ND			2500	500	10/24/08 15:39	DN	2840973
Toluene	52000			2500	500	10/24/08 15:39	DN	2840973
m,p-Xylene	12000			2500	500	10/24/08 15:39	DN	2840973
o-Xylene	5800			2500	500	10/24/08 15:39	DN	2840973
Xylenes,Total	17800			2500	500	10/24/08 15:39	DN	2840973
Surr: 1,2-Dichloroethane-d4	100		%	74-133	500	10/24/08 15:39	DN	2840973
Surr: 4-Bromofluorobenzene	98.7		%	74-116	500	10/24/08 15:39	DN	2840973
Surr: Toluene-d8	101		%	84-112	500	10/24/08 15:39	DN	2840973

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID MW-12 **Collected:** 10/16/2008 12:00 **SPL Sample ID:** 08100735-09

Site: **PANTRY 585**

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP				**MCL**	**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	0.14		0.021	1	10/30/08 19:16	MAR	2846876
Surr: 1-Chloro-2-fluorobenzene	68.7		% 33-151	1	10/30/08 19:16	MAR	2846876

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	10/30/2008 9:31	DGP	1.07

IRON, FERROUS				**MCL**	**HACH 8146**	**Units: mg/L**	
Iron, Ferrous	1.26		0.05	1	10/17/08 17:15	JL	2833916
NITRATE (AS N)				**MCL**	**M4500-NO3 E**	**Units: mg/L**	
Nitrate (As N)	ND		0.01	1	10/26/08 13:00	KDS	2839821
SULFATE BY ASTM D516-90				**MCL**	**ASTM D516-90**	**Units: mg/L**	
Sulfate	27.4		5	1	10/22/08 9:00	SRA	2834517
TOTAL METALS BY METHOD 200.8				**MCL**	**E200.8**	**Units: ug/L**	
Lead	19.4		10	1	10/24/08 10:27	RJD	2838371

Prep Method	Prep Date	Prep Initials	Prep Factor
E200.8	10/21/2008 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID MW-12 **Collected:** 10/16/2008 12:00 **SPL Sample ID:** 08100735-09

Site: PANTRY 585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B			**MCL**	**SW8260B**	**Units: ug/L**		
3,3-Dimethyl-1-butanol	ND		100	10	10/24/08 16:06	DN	2840974
Diisopropyl ether	1600		50	10	10/24/08 16:06	DN	2840974
Ethanol	ND		1000	10	10/24/08 16:06	DN	2840974
t-Butyl alcohol	8000		100	10	10/24/08 16:06	DN	2840974
tert-Amyl alcohol	ND		100	10	10/24/08 16:06	DN	2840974
tert-Amyl methyl ether	390		50	10	10/24/08 16:06	DN	2840974
tert-Butyl ethyl ether	ND		50	10	10/24/08 16:06	DN	2840974
tert-Butyl formate	ND		10	10	10/24/08 16:06	DN	2840974
1,2-Dichloroethane	ND		50	10	10/24/08 16:06	DN	2840974
Benzene	17000		250	50	10/27/08 18:47	DN	2842276
Ethylbenzene	1900		50	10	10/24/08 16:06	DN	2840974
Methyl tert-butyl ether	7300		250	50	10/27/08 18:47	DN	2842276
Naphthalene	860		50	10	10/24/08 16:06	DN	2840974
Toluene	22000		250	50	10/27/08 18:47	DN	2842276
m,p-Xylene	3500		50	10	10/24/08 16:06	DN	2840974
o-Xylene	2200		50	10	10/24/08 16:06	DN	2840974
Xylenes,Total	5700		50	10	10/24/08 16:06	DN	2840974
Surr: 1,2-Dichloroethane-d4	82.7	%	74-133	50	10/27/08 18:47	DN	2842276
Surr: 1,2-Dichloroethane-d4	102	%	74-133	10	10/24/08 16:06	DN	2840974
Surr: 4-Bromofluorobenzene	99.1	%	74-116	50	10/27/08 18:47	DN	2842276
Surr: 4-Bromofluorobenzene	101	%	74-116	10	10/24/08 16:06	DN	2840974
Surr: Toluene-d8	97.0	%	84-112	50	10/27/08 18:47	DN	2842276
Surr: Toluene-d8	102	%	84-112	10	10/24/08 16:06	DN	2840974

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID MW-16 **Collected:** 10/16/2008 11:45 **SPL Sample ID:** 08100735-10

Site: **PANTRY 585**

Analyses/Method	Result	QUAL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP					**MCL**	**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND			0.021	1	10/30/08 19:35	MAR	2846877
Surr: 1-Chloro-2-fluorobenzene	73.6		%	33-151	1	10/30/08 19:35	MAR	2846877

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	10/30/2008 9:31	DGP	1.04

IRON, FERROUS					**MCL**	**HACH 8146**	**Units: mg/L**	
Iron, Ferrous	ND			0.05	1	10/17/08 17:15	JL	2833917
NITRATE (AS N)					**MCL**	**M4500-NO3 E**	**Units: mg/L**	
Nitrate (As N)	1.03			0.05	5	10/26/08 13:00	KDS	2839822
SULFATE BY ASTM D516-90					**MCL**	**ASTM D516-90**	**Units: mg/L**	
Sulfate	ND			5	1	10/22/08 9:00	SRA	2834518
TOTAL METALS BY METHOD 200.8					**MCL**	**E200.8**	**Units: ug/L**	
Lead	21.4			10	1	10/24/08 10:32	RJD	2838372

Prep Method	Prep Date	Prep Initials	Prep Factor
E200.8	10/21/2008 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B					**MCL**	**SW8260B**	**Units: ug/L**	
3,3-Dimethyl-1-butanol	ND			10	1	10/23/08 15:02	NDG	2838233
Diisopropyl ether	ND			5	1	10/23/08 15:02	NDG	2838233
Ethanol	ND			100	1	10/23/08 15:02	NDG	2838233
t-Butyl alcohol	ND			10	1	10/23/08 15:02	NDG	2838233
tert-Amyl alcohol	ND			10	1	10/23/08 15:02	NDG	2838233
tert-Amyl methyl ether	ND			5	1	10/23/08 15:02	NDG	2838233
tert-Butyl ethyl ether	ND			5	1	10/23/08 15:02	NDG	2838233
tert-Butyl formate	ND			1	1	10/23/08 15:02	NDG	2838233
1,2-Dichloroethane	ND			5	1	10/23/08 15:02	NDG	2838233
Benzene	ND			5	1	10/23/08 15:02	NDG	2838233
Ethylbenzene	ND			5	1	10/23/08 15:02	NDG	2838233
Methyl tert-butyl ether	ND			5	1	10/23/08 15:02	NDG	2838233
Naphthalene	ND			5	1	10/23/08 15:02	NDG	2838233
Toluene	ND			5	1	10/23/08 15:02	NDG	2838233
m,p-Xylene	ND			5	1	10/23/08 15:02	NDG	2838233
o-Xylene	ND			5	1	10/23/08 15:02	NDG	2838233
Xylenes,Total	ND			5	1	10/23/08 15:02	NDG	2838233
Surr: 1,2-Dichloroethane-d4	97.4		%	74-133	1	10/23/08 15:02	NDG	2838233
Surr: 4-Bromofluorobenzene	100		%	74-116	1	10/23/08 15:02	NDG	2838233
Surr: Toluene-d8	100		%	84-112	1	10/23/08 15:02	NDG	2838233

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID MW-18 **Collected:** 10/16/2008 10:30 **SPL Sample ID:** 08100735-11

Site: **PANTRY 585**

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP				**MCL**	**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND		0.021	1	10/30/08 19:55	MAR	2846878
Surr: 1-Chloro-2-fluorobenzene	88.4		% 33-151	1	10/30/08 19:55	MAR	2846878

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	10/30/2008 9:31	DGP	1.03

IRON, FERROUS				**MCL**	**HACH 8146**	**Units: mg/L**	
Iron, Ferrous	ND		0.05	1	10/17/08 17:15	JL	2833952
NITRATE (AS N)				**MCL**	**M4500-NO3 E**	**Units: mg/L**	
Nitrate (As N)	1.04		0.05	5	10/26/08 13:00	KDS	2839830
SULFATE BY ASTM D516-90				**MCL**	**ASTM D516-90**	**Units: mg/L**	
Sulfate	7.55		5	1	10/22/08 9:00	SRA	2834519
TOTAL METALS BY METHOD 200.8				**MCL**	**E200.8**	**Units: ug/L**	
Lead	ND		10	1	10/24/08 7:38	RJD	2838082

Prep Method	Prep Date	Prep Initials	Prep Factor
E200.8	10/21/2008 17:00	SA	1.00

Qualifiers:

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J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
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LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID MW-18 **Collected:** 10/16/2008 10:30 **SPL Sample ID:** 08100735-11

Site: PANTRY 585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B			**MCL**	**SW8260B**	**Units: ug/L**		
3,3-Dimethyl-1-butanol	ND		10	1	10/23/08 15:31	NDG	2838234
Diisopropyl ether	ND		5	1	10/23/08 15:31	NDG	2838234
Ethanol	ND		100	1	10/23/08 15:31	NDG	2838234
t-Butyl alcohol	ND		10	1	10/23/08 15:31	NDG	2838234
tert-Amyl alcohol	ND		10	1	10/23/08 15:31	NDG	2838234
tert-Amyl methyl ether	ND		5	1	10/23/08 15:31	NDG	2838234
tert-Butyl ethyl ether	ND		5	1	10/23/08 15:31	NDG	2838234
tert-Butyl formate	ND		1	1	10/23/08 15:31	NDG	2838234
1,2-Dichloroethane	ND		5	1	10/23/08 15:31	NDG	2838234
Benzene	150		5	1	10/23/08 15:31	NDG	2838234
Ethylbenzene	100		5	1	10/23/08 15:31	NDG	2838234
Methyl tert-butyl ether	ND		5	1	10/23/08 15:31	NDG	2838234
Naphthalene	ND		5	1	10/23/08 15:31	NDG	2838234
Toluene	730		50	10	10/24/08 16:34	DN	2840975
m,p-Xylene	130		5	1	10/23/08 15:31	NDG	2838234
o-Xylene	140		5	1	10/23/08 15:31	NDG	2838234
Xylenes,Total	270		5	1	10/23/08 15:31	NDG	2838234
Surr: 1,2-Dichloroethane-d4	100	%	74-133	1	10/23/08 15:31	NDG	2838234
Surr: 1,2-Dichloroethane-d4	101	%	74-133	10	10/24/08 16:34	DN	2840975
Surr: 4-Bromofluorobenzene	101	%	74-116	1	10/23/08 15:31	NDG	2838234
Surr: 4-Bromofluorobenzene	100	%	74-116	10	10/24/08 16:34	DN	2840975
Surr: Toluene-d8	101	%	84-112	10	10/24/08 16:34	DN	2840975
Surr: Toluene-d8	100	%	84-112	1	10/23/08 15:31	NDG	2838234

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
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J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID MW-19 **Collected:** 10/16/2008 12:15 **SPL Sample ID:** 08100735-12

Site: **PANTRY 585**

Analyses/Method	Result	QUAL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP					**MCL**	**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND			0.021	1	10/30/08 20:15	MAR	2846879
Surr: 1-Chloro-2-fluorobenzene	82.5		%	33-151	1	10/30/08 20:15	MAR	2846879

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	10/30/2008 9:31	DGP	1.03

IRON, FERROUS				**MCL**	**HACH 8146**	**Units: mg/L**	
Iron, Ferrous	ND		0.05	1	10/17/08 17:15	JL	2833946
NITRATE (AS N)				**MCL**	**M4500-NO3 E**	**Units: mg/L**	
Nitrate (As N)	0.647		0.05	5	10/26/08 13:00	KDS	2839833
SULFATE BY ASTM D516-90				**MCL**	**ASTM D516-90**	**Units: mg/L**	
Sulfate	109		25	5	10/22/08 10:30	SRA	2834565
TOTAL METALS BY METHOD 200.8				**MCL**	**E200.8**	**Units: ug/L**	
Lead	ND		10	1	10/24/08 8:14	RJD	2838090

Prep Method	Prep Date	Prep Initials	Prep Factor
E200.8	10/21/2008 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**	
3,3-Dimethyl-1-butanol	ND		500	50	10/24/08 17:01	DN	2840976
Diisopropyl ether	490		250	50	10/24/08 17:01	DN	2840976
Ethanol	ND		5000	50	10/24/08 17:01	DN	2840976
t-Butyl alcohol	2300		500	50	10/24/08 17:01	DN	2840976
tert-Amyl alcohol	ND		500	50	10/24/08 17:01	DN	2840976
tert-Amyl methyl ether	ND		250	50	10/24/08 17:01	DN	2840976
tert-Butyl ethyl ether	ND		250	50	10/24/08 17:01	DN	2840976
tert-Butyl formate	ND		50	50	10/24/08 17:01	DN	2840976
1,2-Dichloroethane	ND		250	50	10/24/08 17:01	DN	2840976
Benzene	6600		250	50	10/24/08 17:01	DN	2840976
Ethylbenzene	2200		250	50	10/24/08 17:01	DN	2840976
Methyl tert-butyl ether	2700		250	50	10/24/08 17:01	DN	2840976
Naphthalene	860		250	50	10/24/08 17:01	DN	2840976
Toluene	19000		250	50	10/24/08 17:01	DN	2840976
m,p-Xylene	7500		250	50	10/24/08 17:01	DN	2840976
o-Xylene	3900		250	50	10/24/08 17:01	DN	2840976
Xylenes,Total	11400		250	50	10/24/08 17:01	DN	2840976
Surr: 1,2-Dichloroethane-d4	99.9	%	74-133	50	10/24/08 17:01	DN	2840976
Surr: 4-Bromofluorobenzene	100	%	74-116	50	10/24/08 17:01	DN	2840976
Surr: Toluene-d8	99.5	%	84-112	50	10/24/08 17:01	DN	2840976

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
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J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID MW-20 **Collected:** 10/16/2008 9:45 **SPL Sample ID:** 08100735-13

Site: **PANTRY 585**

Analyses/Method	Result	QUAL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP					**MCL**	**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND			0.021	1	10/30/08 20:34	MAR	2846880
Surr: 1-Chloro-2-fluorobenzene	40.6		%	33-151	1	10/30/08 20:34	MAR	2846880

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	10/30/2008 9:31	DGP	1.03

IRON, FERROUS					**MCL**	**HACH 8146**	**Units: mg/L**	
Iron, Ferrous	ND			0.05	1	10/17/08 17:15	JL	2833947
NITRATE (AS N)					**MCL**	**M4500-NO3 E**	**Units: mg/L**	
Nitrate (As N)	0.331			0.01	1	10/26/08 13:00	KDS	2839834
SULFATE BY ASTM D516-90					**MCL**	**ASTM D516-90**	**Units: mg/L**	
Sulfate	ND			5	1	10/22/08 10:30	SRA	2834566
TOTAL METALS BY METHOD 200.8					**MCL**	**E200.8**	**Units: ug/L**	
Lead	ND			10	1	10/24/08 8:18	RJD	2838091

Prep Method	Prep Date	Prep Initials	Prep Factor
E200.8	10/21/2008 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B					**MCL**	**SW8260B**	**Units: ug/L**	
3,3-Dimethyl-1-butanol	ND			10	1	10/23/08 16:00	NDG	2838235
Diisopropyl ether	6.1			5	1	10/23/08 16:00	NDG	2838235
Ethanol	ND			100	1	10/23/08 16:00	NDG	2838235
t-Butyl alcohol	36			10	1	10/23/08 16:00	NDG	2838235
tert-Amyl alcohol	ND			10	1	10/23/08 16:00	NDG	2838235
tert-Amyl methyl ether	ND			5	1	10/23/08 16:00	NDG	2838235
tert-Butyl ethyl ether	ND			5	1	10/23/08 16:00	NDG	2838235
tert-Butyl formate	ND			1	1	10/23/08 16:00	NDG	2838235
1,2-Dichloroethane	ND			5	1	10/23/08 16:00	NDG	2838235
Benzene	140			5	1	10/23/08 16:00	NDG	2838235
Ethylbenzene	74			5	1	10/23/08 16:00	NDG	2838235
Methyl tert-butyl ether	29			5	1	10/23/08 16:00	NDG	2838235
Naphthalene	72			5	1	10/23/08 16:00	NDG	2838235
Toluene	300			5	1	10/23/08 16:00	NDG	2838235
m,p-Xylene	340			5	1	10/23/08 16:00	NDG	2838235
o-Xylene	270			5	1	10/23/08 16:00	NDG	2838235
Xylenes,Total	610			5	1	10/23/08 16:00	NDG	2838235
Surr: 1,2-Dichloroethane-d4	97.6		%	74-133	1	10/23/08 16:00	NDG	2838235
Surr: 4-Bromofluorobenzene	103		%	74-116	1	10/23/08 16:00	NDG	2838235
Surr: Toluene-d8	99.5		%	84-112	1	10/23/08 16:00	NDG	2838235

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID MW-21 **Collected:** 10/16/2008 10:45 **SPL Sample ID:** 08100735-14

Site: **PANTRY 585**

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP			**MCL**		**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND		0.021	1	10/30/08 20:54	MAR	2846881
Surr: 1-Chloro-2-fluorobenzene	83.9	%	33-151	1	10/30/08 20:54	MAR	2846881

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	10/30/2008 9:31	DGP	1.04

IRON, FERROUS			**MCL**		**HACH 8146**	**Units: mg/L**	
Iron, Ferrous	ND		0.05	1	10/17/08 17:15	JL	2833948
NITRATE (AS N)			**MCL**		**M4500-NO3 E**	**Units: mg/L**	
Nitrate (As N)	0.954		0.05	5	10/27/08 16:00	JZ	2841817
SULFATE BY ASTM D516-90			**MCL**		**ASTM D516-90**	**Units: mg/L**	
Sulfate	ND		5	1	10/22/08 10:30	SRA	2834562
TOTAL METALS BY METHOD 200.8			**MCL**		**E200.8**	**Units: ug/L**	
Lead	ND		10	1	10/24/08 8:23	RJD	2838092

Prep Method	Prep Date	Prep Initials	Prep Factor
E200.8	10/21/2008 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B			**MCL**		**SW8260B**	**Units: ug/L**	
3,3-Dimethyl-1-butanol	ND		10	1	10/23/08 16:27	NDG	2838236
Diisopropyl ether	ND		5	1	10/23/08 16:27	NDG	2838236
Ethanol	ND		100	1	10/23/08 16:27	NDG	2838236
t-Butyl alcohol	ND		10	1	10/23/08 16:27	NDG	2838236
tert-Amyl alcohol	ND		10	1	10/23/08 16:27	NDG	2838236
tert-Amyl methyl ether	ND		5	1	10/23/08 16:27	NDG	2838236
tert-Butyl ethyl ether	ND		5	1	10/23/08 16:27	NDG	2838236
tert-Butyl formate	ND		1	1	10/23/08 16:27	NDG	2838236
1,2-Dichloroethane	ND		5	1	10/23/08 16:27	NDG	2838236
Benzene	18		5	1	10/23/08 16:27	NDG	2838236
Ethylbenzene	44		5	1	10/23/08 16:27	NDG	2838236
Methyl tert-butyl ether	5.5		5	1	10/23/08 16:27	NDG	2838236
Naphthalene	16		5	1	10/23/08 16:27	NDG	2838236
Toluene	200		5	1	10/23/08 16:27	NDG	2838236
m,p-Xylene	150		5	1	10/23/08 16:27	NDG	2838236
o-Xylene	65		5	1	10/23/08 16:27	NDG	2838236
Xylenes,Total	215		5	1	10/23/08 16:27	NDG	2838236
Surr: 1,2-Dichloroethane-d4	99.5	%	74-133	1	10/23/08 16:27	NDG	2838236
Surr: 4-Bromofluorobenzene	101	%	74-116	1	10/23/08 16:27	NDG	2838236
Surr: Toluene-d8	98.8	%	84-112	1	10/23/08 16:27	NDG	2838236

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID MW-23 **Collected:** 10/16/2008 10:15 **SPL Sample ID:** 08100735-15

Site: **PANTRY 585**

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP				**MCL**	**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND		0.021	1	10/30/08 21:13	MAR	2846882
Surr: 1-Chloro-2-fluorobenzene	70.9		% 33-151	1	10/30/08 21:13	MAR	2846882

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	10/30/2008 9:31	DGP	1.03

IRON, FERROUS				**MCL**	**HACH 8146**	**Units: mg/L**	
Iron, Ferrous	ND		0.05	1	10/17/08 17:15	JL	2833949
NITRATE (AS N)				**MCL**	**M4500-NO3 E**	**Units: mg/L**	
Nitrate (As N)	ND		0.01	1	10/26/08 13:00	KDS	2839835
SULFATE BY ASTM D516-90				**MCL**	**ASTM D516-90**	**Units: mg/L**	
Sulfate	6.14		5	1	10/22/08 10:30	SRA	2834567
TOTAL METALS BY METHOD 200.8				**MCL**	**E200.8**	**Units: ug/L**	
Lead	ND		10	1	10/24/08 8:27	RJD	2838093

Prep Method	Prep Date	Prep Initials	Prep Factor
E200.8	10/21/2008 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID MW-23 **Collected:** 10/16/2008 10:15 **SPL Sample ID:** 08100735-15

Site: PANTRY 585

Analyses/Method	Result	QUAL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**		
3,3-Dimethyl-1-butanol	ND			200	20	10/24/08 17:28	DN	2840977
Diisopropyl ether	300			100	20	10/24/08 17:28	DN	2840977
Ethanol	ND			2000	20	10/24/08 17:28	DN	2840977
t-Butyl alcohol	1800			200	20	10/24/08 17:28	DN	2840977
tert-Amyl alcohol	ND			200	20	10/24/08 17:28	DN	2840977
tert-Amyl methyl ether	ND			100	20	10/24/08 17:28	DN	2840977
tert-Butyl ethyl ether	ND			100	20	10/24/08 17:28	DN	2840977
tert-Butyl formate	ND			20	20	10/24/08 17:28	DN	2840977
1,2-Dichloroethane	ND			100	20	10/24/08 17:28	DN	2840977
Benzene	4200			100	20	10/24/08 17:28	DN	2840977
Ethylbenzene	2400			100	20	10/24/08 17:28	DN	2840977
Methyl tert-butyl ether	1700			100	20	10/24/08 17:28	DN	2840977
Naphthalene	1300			100	20	10/24/08 17:28	DN	2840977
Toluene	19000			250	50	10/27/08 19:17	DN	2842277
m,p-Xylene	6700			100	20	10/24/08 17:28	DN	2840977
o-Xylene	4000			100	20	10/24/08 17:28	DN	2840977
Xylenes,Total	10700			100	20	10/24/08 17:28	DN	2840977
Surr: 1,2-Dichloroethane-d4	81.4		%	74-133	50	10/27/08 19:17	DN	2842277
Surr: 1,2-Dichloroethane-d4	104		%	74-133	20	10/24/08 17:28	DN	2840977
Surr: 4-Bromofluorobenzene	101		%	74-116	50	10/27/08 19:17	DN	2842277
Surr: 4-Bromofluorobenzene	99.9		%	74-116	20	10/24/08 17:28	DN	2840977
Surr: Toluene-d8	98.9		%	84-112	50	10/27/08 19:17	DN	2842277
Surr: Toluene-d8	100		%	84-112	20	10/24/08 17:28	DN	2840977

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID MW-24 **Collected:** 10/16/2008 10:00 **SPL Sample ID:** 08100735-16

Site: **PANTRY 585**

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP				**MCL**	**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND		0.02	1	10/30/08 21:33	MAR	2846883
Surr: 1-Chloro-2-fluorobenzene	67.7		% 33-151	1	10/30/08 21:33	MAR	2846883

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	10/30/2008 9:31	DGP	1.02

IRON, FERROUS				**MCL**	**HACH 8146**	**Units: mg/L**	
Iron, Ferrous	ND		0.05	1	10/17/08 17:15	JL	2833953
NITRATE (AS N)				**MCL**	**M4500-NO3 E**	**Units: mg/L**	
Nitrate (As N)	0.325		0.01	1	10/27/08 16:00	JZ	2841819
SULFATE BY ASTM D516-90				**MCL**	**ASTM D516-90**	**Units: mg/L**	
Sulfate	5.95		5	1	10/22/08 10:30	SRA	2834568
TOTAL METALS BY METHOD 200.8				**MCL**	**E200.8**	**Units: ug/L**	
Lead	ND		10	1	10/24/08 8:31	RJD	2838094

Prep Method	Prep Date	Prep Initials	Prep Factor
E200.8	10/21/2008 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**	
3,3-Dimethyl-1-butanol	ND		1000	100	10/24/08 17:55	DN	2840978
Diisopropyl ether	660		500	100	10/24/08 17:55	DN	2840978
Ethanol	ND		10000	100	10/24/08 17:55	DN	2840978
t-Butyl alcohol	4700		1000	100	10/24/08 17:55	DN	2840978
tert-Amyl alcohol	ND		1000	100	10/24/08 17:55	DN	2840978
tert-Amyl methyl ether	ND		500	100	10/24/08 17:55	DN	2840978
tert-Butyl ethyl ether	ND		500	100	10/24/08 17:55	DN	2840978
tert-Butyl formate	ND		100	100	10/24/08 17:55	DN	2840978
1,2-Dichloroethane	ND		500	100	10/24/08 17:55	DN	2840978
Benzene	10000		500	100	10/24/08 17:55	DN	2840978
Ethylbenzene	2400		500	100	10/24/08 17:55	DN	2840978
Methyl tert-butyl ether	4500		500	100	10/24/08 17:55	DN	2840978
Naphthalene	1300		500	100	10/24/08 17:55	DN	2840978
Toluene	16000		500	100	10/24/08 17:55	DN	2840978
m,p-Xylene	8900		500	100	10/24/08 17:55	DN	2840978
o-Xylene	4400		500	100	10/24/08 17:55	DN	2840978
Xylenes,Total	13300		500	100	10/24/08 17:55	DN	2840978
Surr: 1,2-Dichloroethane-d4	100		% 74-133	100	10/24/08 17:55	DN	2840978
Surr: 4-Bromofluorobenzene	102		% 74-116	100	10/24/08 17:55	DN	2840978
Surr: Toluene-d8	101		% 84-112	100	10/24/08 17:55	DN	2840978

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID MW-29 **Collected:** 10/16/2008 13:30 **SPL Sample ID:** 08100735-17

Site: **PANTRY 585**

Analyses/Method	Result	QUAL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP					**MCL**	**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	0.25			0.02	1	10/30/08 21:52	MAR	2846884
Surr: 1-Chloro-2-fluorobenzene	58.9		%	33-151	1	10/30/08 21:52	MAR	2846884

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	10/30/2008 9:31	DGP	1.01

IRON, FERROUS				**MCL**	**HACH 8146**	**Units: mg/L**	
Iron, Ferrous	ND		0.05	1	10/17/08 17:15	JL	2833954
NITRATE (AS N)				**MCL**	**M4500-NO3 E**	**Units: mg/L**	
Nitrate (As N)	ND		0.01	1	10/26/08 13:00	KDS	2839836
SULFATE BY ASTM D516-90				**MCL**	**ASTM D516-90**	**Units: mg/L**	
Sulfate	ND		5	1	10/22/08 10:30	SRA	2834569
TOTAL METALS BY METHOD 200.8				**MCL**	**E200.8**	**Units: ug/L**	
Lead	14.7		10	1	10/24/08 8:36	RJD	2838095

Prep Method	Prep Date	Prep Initials	Prep Factor
E200.8	10/21/2008 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**	
3,3-Dimethyl-1-butanol	ND		5000	500	10/24/08 18:22	DN	2840979
Diisopropyl ether	ND		2500	500	10/24/08 18:22	DN	2840979
Ethanol	ND		50000	500	10/24/08 18:22	DN	2840979
t-Butyl alcohol	ND		5000	500	10/24/08 18:22	DN	2840979
tert-Amyl alcohol	ND		5000	500	10/24/08 18:22	DN	2840979
tert-Amyl methyl ether	ND		2500	500	10/24/08 18:22	DN	2840979
tert-Butyl ethyl ether	ND		2500	500	10/24/08 18:22	DN	2840979
tert-Butyl formate	ND		500	500	10/24/08 18:22	DN	2840979
1,2-Dichloroethane	ND		2500	500	10/24/08 18:22	DN	2840979
Benzene	28000		2500	500	10/24/08 18:22	DN	2840979
Ethylbenzene	26000		2500	500	10/24/08 18:22	DN	2840979
Methyl tert-butyl ether	13000		2500	500	10/24/08 18:22	DN	2840979
Naphthalene	12000		2500	500	10/24/08 18:22	DN	2840979
Toluene	120000		2500	500	10/24/08 18:22	DN	2840979
m,p-Xylene	87000		2500	500	10/24/08 18:22	DN	2840979
o-Xylene	39000		2500	500	10/24/08 18:22	DN	2840979
Xylenes,Total	126000		2500	500	10/24/08 18:22	DN	2840979
Surr: 1,2-Dichloroethane-d4	104	%	74-133	500	10/24/08 18:22	DN	2840979
Surr: 4-Bromofluorobenzene	99.3	%	74-116	500	10/24/08 18:22	DN	2840979
Surr: Toluene-d8	102	%	84-112	500	10/24/08 18:22	DN	2840979

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID MW-30 **Collected:** 10/16/2008 11:30 **SPL Sample ID:** 08100735-18

Site: **PANTRY 585**

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP				**MCL**	**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	0.33		0.02	1	10/30/08 22:32	MAR	2846886
Surr: 1-Chloro-2-fluorobenzene	70.7		% 33-151	1	10/30/08 22:32	MAR	2846886

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	10/30/2008 9:31	DGP	1.02

IRON, FERROUS				**MCL**	**HACH 8146**	**Units: mg/L**	
Iron, Ferrous	ND		0.05	1	10/17/08 17:15	JL	2833955
NITRATE (AS N)				**MCL**	**M4500-NO3 E**	**Units: mg/L**	
Nitrate (As N)	0.145		0.01	1	10/26/08 13:00	KDS	2839837
SULFATE BY ASTM D516-90				**MCL**	**ASTM D516-90**	**Units: mg/L**	
Sulfate	56.7		10	2	10/22/08 10:30	SRA	2834572
TOTAL METALS BY METHOD 200.8				**MCL**	**E200.8**	**Units: ug/L**	
Lead	110		10	1	10/24/08 8:40	RJD	2838096

Prep Method	Prep Date	Prep Initials	Prep Factor
E200.8	10/21/2008 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID MW-30 **Collected:** 10/16/2008 11:30 **SPL Sample ID:** 08100735-18

Site: PANTRY 585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B			**MCL**	**SW8260B**	**Units: ug/L**		
3,3-Dimethyl-1-butanol	ND		100	10	10/24/08 18:49	DN	2840980
Diisopropyl ether	100		50	10	10/24/08 18:49	DN	2840980
Ethanol	ND		1000	10	10/24/08 18:49	DN	2840980
t-Butyl alcohol	700		100	10	10/24/08 18:49	DN	2840980
tert-Amyl alcohol	ND		100	10	10/24/08 18:49	DN	2840980
tert-Amyl methyl ether	ND		50	10	10/24/08 18:49	DN	2840980
tert-Butyl ethyl ether	ND		50	10	10/24/08 18:49	DN	2840980
tert-Butyl formate	ND		10	10	10/24/08 18:49	DN	2840980
1,2-Dichloroethane	ND		50	10	10/24/08 18:49	DN	2840980
Benzene	1700		50	10	10/24/08 18:49	DN	2840980
Ethylbenzene	480		50	10	10/24/08 18:49	DN	2840980
Methyl tert-butyl ether	930		50	10	10/24/08 18:49	DN	2840980
Naphthalene	200		50	10	10/24/08 18:49	DN	2840980
Toluene	62000		1000	200	10/28/08 12:46	DN	2842687
m,p-Xylene	1600		50	10	10/24/08 18:49	DN	2840980
o-Xylene	830		50	10	10/24/08 18:49	DN	2840980
Xylenes,Total	2430		50	10	10/24/08 18:49	DN	2840980
Surr: 1,2-Dichloroethane-d4	97.4	%	74-133	10	10/24/08 18:49	DN	2840980
Surr: 1,2-Dichloroethane-d4	78.1	%	74-133	200	10/28/08 12:46	DN	2842687
Surr: 4-Bromofluorobenzene	100	%	74-116	10	10/24/08 18:49	DN	2840980
Surr: 4-Bromofluorobenzene	96.9	%	74-116	200	10/28/08 12:46	DN	2842687
Surr: Toluene-d8	99.9	%	84-112	200	10/28/08 12:46	DN	2842687
Surr: Toluene-d8	100	%	84-112	10	10/24/08 18:49	DN	2840980

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID MW-31 **Collected:** 10/16/2008 11:15 **SPL Sample ID:** 08100735-19

Site: **PANTRY 585**

Analyses/Method	Result	QUAL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP					**MCL**	**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND			0.021	1	10/30/08 22:51	MAR	2846887
Surr: 1-Chloro-2-fluorobenzene	69.7		%	33-151	1	10/30/08 22:51	MAR	2846887

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	10/30/2008 9:31	DGP	1.03

IRON, FERROUS					**MCL**	**HACH 8146**	**Units: mg/L**	
Iron, Ferrous	ND			0.05	1	10/17/08 17:15	JL	2833943
NITRATE (AS N)					**MCL**	**M4500-NO3 E**	**Units: mg/L**	
Nitrate (As N)	ND			0.01	1	10/26/08 13:00	KDS	2839840
SULFATE BY ASTM D516-90					**MCL**	**ASTM D516-90**	**Units: mg/L**	
Sulfate	19.3			5	1	10/22/08 10:30	SRA	2834573
TOTAL METALS BY METHOD 200.8					**MCL**	**E200.8**	**Units: ug/L**	
Lead	ND			10	1	10/24/08 8:44	RJD	2838097

Prep Method	Prep Date	Prep Initials	Prep Factor
E200.8	10/21/2008 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B					**MCL**	**SW8260B**	**Units: ug/L**	
3,3-Dimethyl-1-butanol	ND			1000	100	10/24/08 19:16	DN	2840981
Diisopropyl ether	960			500	100	10/24/08 19:16	DN	2840981
Ethanol	ND			10000	100	10/24/08 19:16	DN	2840981
t-Butyl alcohol	14000			1000	100	10/24/08 19:16	DN	2840981
tert-Amyl alcohol	ND			1000	100	10/24/08 19:16	DN	2840981
tert-Amyl methyl ether	ND			500	100	10/24/08 19:16	DN	2840981
tert-Butyl ethyl ether	ND			500	100	10/24/08 19:16	DN	2840981
tert-Butyl formate	ND			100	100	10/24/08 19:16	DN	2840981
1,2-Dichloroethane	ND			500	100	10/24/08 19:16	DN	2840981
Benzene	11000			500	100	10/24/08 19:16	DN	2840981
Ethylbenzene	2600			500	100	10/24/08 19:16	DN	2840981
Methyl tert-butyl ether	14000			500	100	10/24/08 19:16	DN	2840981
Naphthalene	870			500	100	10/24/08 19:16	DN	2840981
Toluene	25000			500	100	10/24/08 19:16	DN	2840981
m,p-Xylene	8600			500	100	10/24/08 19:16	DN	2840981
o-Xylene	4300			500	100	10/24/08 19:16	DN	2840981
Xylenes,Total	12900			500	100	10/24/08 19:16	DN	2840981
Surr: 1,2-Dichloroethane-d4	99.2		%	74-133	100	10/24/08 19:16	DN	2840981
Surr: 4-Bromofluorobenzene	100		%	74-116	100	10/24/08 19:16	DN	2840981
Surr: Toluene-d8	99.0		%	84-112	100	10/24/08 19:16	DN	2840981

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

Quality Control Documentation

LAFAYETTE LABORATORY
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SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

PANTRY 585

Analysis: EDB & DBCP
Method: SW8011

WorkOrder: 08100735
Lab Batch ID: 74488

Method Blank

RunID: PCBB_081030A-2846863 Units: ug/L
Analysis Date: 10/30/2008 11:51 Analyst: MAR
Preparation Date: 10/30/2008 9:31 Prep By: DGP Method E504

Analyte	Result	Rep Limit
1,2-Dibromoethane	ND	0.020
Surr: 1-Chloro-2-fluorobenzene	129.4	33-151

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08100735-01B	MW-1
08100735-02B	DMW-1
08100735-03B	DMW-2
08100735-04B	DMW-3
08100735-05B	MW-4
08100735-06B	MW-5
08100735-07B	MW-8
08100735-08B	MW-9
08100735-09B	MW-12
08100735-10B	MW-16
08100735-11B	MW-18
08100735-12B	MW-19
08100735-13B	MW-20
08100735-14B	MW-21
08100735-15B	MW-23
08100735-16B	MW-24
08100735-17B	MW-29
08100735-18B	MW-30
08100735-19B	MW-31

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: PCBB_081030A-2846864 Units: ug/L
Analysis Date: 10/30/2008 12:10 Analyst: MAR
Preparation Date: 10/30/2008 9:31 Prep By: DGP Method E504

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1,2-Dibromoethane	0.570	0.707	124	0.570	0.708	124	0.2	30	60	140
Surr: 1-Chloro-2-fluorobenzene	143	162	114	143	166	116	2.1	30	33	151

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

Quality Control Report

LAFAYETTE LABORATORY
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ATC ASSOCIATES, INC.

PANTRY 585

Analysis: **Total Metals by Method 200.8**
Method: **E200.8**

WorkOrder: **08100735**
Lab Batch ID: **74245-I**

Method Blank

RunID: ICPMS_081023F-2838354 Units: ug/L
Analysis Date: 10/24/2008 9:12 Analyst: RJD
Preparation Date: 10/21/2008 17:00 Prep By: SA Method E200.8

Analyte	Result	Rep Limit
Lead	ND	10

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08100735-01C	MW-1
08100735-02C	DMW-1
08100735-03C	DMW-2
08100735-04C	DMW-3
08100735-05C	MW-4
08100735-06C	MW-5
08100735-07C	MW-8
08100735-08C	MW-9
08100735-09C	MW-12
08100735-10C	MW-16

Laboratory Control Sample (LCS)

RunID: ICPMS_081023F-2838355 Units: ug/L
Analysis Date: 10/24/2008 9:16 Analyst: RJD
Preparation Date: 10/21/2008 17:00 Prep By: SA Method E200.8

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Lead	100.0	99.46	99.46	85	115

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08100735-01
RunID: ICPMS_081023F-2838358 Units: ug/L
Analysis Date: 10/24/2008 9:29 Analyst: RJD
Preparation Date: 10/21/2008 17:00 Prep By: SA Method E200.8

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Lead	ND	100	99.34	94.05	100	109.1	103.8	9.384	20	70	130

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

ATC ASSOCIATES, INC.

PANTRY 585

Analysis: Total Metals by Method 200.8
Method: E200.8

WorkOrder: 08100735
Lab Batch ID: 74246-I

Method Blank

RunID: ICPMS_081023D-2838080 Units: ug/L
Analysis Date: 10/24/2008 7:29 Analyst: RJD
Preparation Date: 10/21/2008 17:00 Prep By: SA Method E200.8

Analyte	Result	Rep Limit
Lead	ND	10

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08100735-11C	MW-18
08100735-12C	MW-19
08100735-13C	MW-20
08100735-14C	MW-21
08100735-15C	MW-23
08100735-16C	MW-24
08100735-17C	MW-29
08100735-18C	MW-30
08100735-19C	MW-31

Laboratory Control Sample (LCS)

RunID: ICPMS_081023D-2838081 Units: ug/L
Analysis Date: 10/24/2008 7:33 Analyst: RJD
Preparation Date: 10/21/2008 17:00 Prep By: SA Method E200.8

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Lead	100.0	100.7	100.7	85	115

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08100735-11
RunID: ICPMS_081023D-2838084 Units: ug/L
Analysis Date: 10/24/2008 7:46 Analyst: RJD
Preparation Date: 10/21/2008 17:00 Prep By: SA Method E200.8

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Lead	ND	100	94.54	94.02	100	100.1	99.58	5.708	20	70	130

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

ATC ASSOCIATES, INC.

PANTRY 585

Analysis: Volatile Organics:Method 8260B
Method: SW8260B

WorkOrder: 08100735
Lab Batch ID: R190859

Method Blank

RunID: QB_081023B-2837725 Units: ug/L
Analysis Date: 10/23/2008 13:05 Analyst: DN
Preparation Date: 10/23/2008 13:05 Prep By: Method SW5035

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08100735-02A	DMW-1
08100735-04A	DMW-3
08100735-05A	MW-4

Analyte	Result	Rep Limit
1,2-Dichloroethane	ND	5.0
3,3-Dimethyl-1-butanol	ND	10
Benzene	ND	5.0
Diisopropyl ether	ND	5.0
Ethanol	ND	100
Ethylbenzene	ND	5.0
Methyl tert-butyl ether	ND	5.0
Naphthalene	ND	5.0
t-Butyl alcohol	ND	10
tert-Amyl alcohol	ND	10
tert-Amyl methyl ether	ND	5.0
tert-Butyl ethyl ether	ND	5.0
tert-Butyl formate	ND	1.0
Toluene	ND	5.0
m,p-Xylene	ND	5.0
o-Xylene	ND	5.0
Xylenes,Total	ND	5.0
Surr: 1,2-Dichloroethane-d4	80.5	74-133
Surr: 4-Bromofluorobenzene	102.2	74-116
Surr: Toluene-d8	99.4	84-112

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: QB_081023B-2837723 Units: ug/L
Analysis Date: 10/23/2008 11:34 Analyst: DN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1,2-Dichloroethane	50.0	37.0	74.0	50.0	39.6	79.2	6.8	21	73	134
3,3-Dimethyl-1-butanol	500	441	88.1	500	455	91.0	3.2	47	45	122
Benzene	50.0	47.2	94.4	50.0	50.9	102	7.5	23	79	124
Diisopropyl ether	50.0	43.8	87.5	50.0	44.7	89.4	2.2	21	79	127
Ethanol	1000	774	77.4	1000	744	74.4	4.0	66	46	175
Ethylbenzene	50.0	51.8	104	50.0	54.3	109	4.7	16	79	125
Methyl tert-butyl ether	50.0	45.2	90.4	50.0	46.2	92.4	2.2	23	77	125
Naphthalene	50.0	51.3	103	50.0	52.3	105	1.8	27	72	132
t-Butyl alcohol	500	393	78.6	500	403	80.5	2.4	54	11	154

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

ATC ASSOCIATES, INC.

PANTRY 585

Analysis: Volatile Organics:Method 8260B
Method: SW8260B

WorkOrder: 08100735
Lab Batch ID: R190859

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: QB_081023B-2837723 Units: ug/L
Analysis Date: 10/23/2008 11:34 Analyst: DN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
tert-Amyl alcohol	500	400	80.0	500	412	82.4	3.0	47	44	141
tert-Amyl methyl ether	50.0	43.8	87.6	50.0	45.8	91.6	4.4	21	73	123
tert-Butyl ethyl ether	50.0	43.9	87.8	50.0	45.8	91.6	4.2	24	75	125
tert-Butyl formate	50.0	39.3	78.7	50.0	40.9	81.8	4.0	34	38	172
Toluene	50.0	53.5	107	50.0	55.2	110	3.0	21	79	124
m,p-Xylene	100	109	109	100	113	113	3.4	20	77	132
o-Xylene	50.0	52.1	104	50.0	54.3	109	4.2	17	76	127
Xylenes,Total	150.0	161.1	107.3	150.0	167.3	111.3	3.7	20	76	130
Surr: 1,2-Dichloroethane-d4	50.0	41.7	83.4	50.0	41.7	83.4	0.1	30	74	133
Surr: 4-Bromofluorobenzene	50.0	49.9	99.8	50.0	49.2	98.3	1.5	30	74	116
Surr: Toluene-d8	50.0	48.8	97.6	50.0	50.0	100	2.4	30	84	112

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

ATC ASSOCIATES, INC.

PANTRY 585

Analysis: Volatile Organics:Method 8260B
Method: SW8260B

WorkOrder: 08100735
Lab Batch ID: R190879

Method Blank

RunID: GB_081023A-2838226 Units: ug/L
Analysis Date: 10/23/2008 11:40 Analyst: NDG
Preparation Date: 10/23/2008 11:40 Prep By: Method SW5035

Analyte	Result	Rep Limit
1,2-Dichloroethane	ND	5.0
3,3-Dimethyl-1-butanol	ND	10
Benzene	ND	5.0
Diisopropyl ether	ND	5.0
Ethanol	ND	100
Ethylbenzene	ND	5.0
Methyl tert-butyl ether	ND	5.0
Naphthalene	ND	5.0
t-Butyl alcohol	ND	10
tert-Amyl alcohol	ND	10
tert-Amyl methyl ether	ND	5.0
tert-Butyl ethyl ether	ND	5.0
tert-Butyl formate	ND	1.0
Toluene	ND	5.0
m,p-Xylene	ND	5.0
o-Xylene	ND	5.0
Xylenes,Total	ND	5.0
Surr: 1,2-Dichloroethane-d4	95.9	74-133
Surr: 4-Bromofluorobenzene	99.2	74-116
Surr: Toluene-d8	99.3	84-112

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08100735-10A	MW-16
08100735-11A	MW-18
08100735-13A	MW-20
08100735-14A	MW-21

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: GB_081023A-2838224 Units: ug/L
Analysis Date: 10/23/2008 10:14 Analyst: NDG

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1,2-Dichloroethane	50.0	51.6	103	50.0	52.3	105	1.3	21	73	134
3,3-Dimethyl-1-butanol	500	447	89.5	500	497	99.3	10.4	47	45	122
Benzene	50.0	47.0	93.9	50.0	47.0	93.9	0.0	23	79	124
Diisopropyl ether	50.0	52.5	105	50.0	54.2	108	3.2	21	79	127
Ethanol	1000	1220	122	1000	985	98.5	21.4	66	46	175
Ethylbenzene	50.0	44.8	89.6	50.0	45.6	91.2	1.8	16	79	125
Methyl tert-butyl ether	50.0	51.5	103	50.0	52.9	106	2.8	23	77	125
Naphthalene	50.0	53.1	106	50.0	53.7	107	1.1	27	72	132
t-Butyl alcohol	500	493	98.5	500	487	97.4	1.2	54	11	154

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

ATC ASSOCIATES, INC.

PANTRY 585

Analysis: **Volatile Organics:Method 8260B** **WorkOrder:** **08100735**
Method: **SW8260B** **Lab Batch ID:** **R190879**

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: GB_081023A-2838224 Units: ug/L
Analysis Date: 10/23/2008 10:14 Analyst: NDG

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
tert-Amyl alcohol	500	519	104	500	528	106	1.7	47	44	141
tert-Amyl methyl ether	50.0	53.9	108	50.0	54.3	109	0.8	21	73	123
tert-Butyl ethyl ether	50.0	52.8	106	50.0	54.6	109	3.3	24	75	125
tert-Butyl formate	50.0	68.4	137	50.0	70.5	141	2.9	34	38	172
Toluene	50.0	55.0	110	50.0	56.3	113	2.4	21	79	124
m,p-Xylene	100	84.9	84.9	100	87.6	87.6	3.0	20	77	132
o-Xylene	50.0	53.4	107	50.0	54.3	109	1.6	17	76	127
Xylenes,Total	150.0	138.3	92.21	150.0	141.9	94.55	2.5	20	76	130
Surr: 1,2-Dichloroethane-d4	50.0	48.8	97.6	50.0	48.5	96.9	0.6	30	74	133
Surr: 4-Bromofluorobenzene	50.0	48.7	97.4	50.0	50.0	100	2.6	30	74	116
Surr: Toluene-d8	50.0	50.5	101	50.0	50.5	101	0.0	30	84	112

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

ATC ASSOCIATES, INC.

PANTRY 585

Analysis: Volatile Organics:Method 8260B
Method: SW8260B

WorkOrder: 08100735
Lab Batch ID: R190922

Method Blank

RunID: QB_081024A-2839126 Units: ug/L
Analysis Date: 10/24/2008 14:09 Analyst: RP
Preparation Date: 10/24/2008 14:09 Prep By: Method SW5035

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08100735-01A	MW-1
08100735-03A	DMW-2
08100735-06A	MW-5

Analyte	Result	Rep Limit
1,2-Dichloroethane	ND	5.0
3,3-Dimethyl-1-butanol	ND	10
Benzene	ND	5.0
Diisopropyl ether	ND	5.0
Ethanol	ND	100
Ethylbenzene	ND	5.0
Methyl tert-butyl ether	ND	5.0
Naphthalene	ND	5.0
t-Butyl alcohol	ND	10
tert-Amyl alcohol	ND	10
tert-Amyl methyl ether	ND	5.0
tert-Butyl ethyl ether	ND	5.0
tert-Butyl formate	ND	1.0
Toluene	ND	5.0
m,p-Xylene	ND	5.0
o-Xylene	ND	5.0
Xylenes,Total	ND	5.0
Surr: 1,2-Dichloroethane-d4	81.2	74-133
Surr: 4-Bromofluorobenzene	98.2	74-116
Surr: Toluene-d8	100.0	84-112

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: QB_081024A-2839124 Units: ug/L
Analysis Date: 10/24/2008 12:38 Analyst: RP

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1,2-Dichloroethane	50.0	38.1	76.1	50.0	39.4	78.9	3.6	21	73	134
3,3-Dimethyl-1-butanol	500	455	91.0	500	449	89.8	1.3	47	45	122
Benzene	50.0	50.4	101	50.0	50.3	101	0.1	23	79	124
Diisopropyl ether	50.0	45.1	90.2	50.0	45.3	90.6	0.5	21	79	127
Ethanol	1000	686	68.6	1000	731	73.1	6.3	66	46	175
Ethylbenzene	50.0	56.6	113	50.0	55.6	111	1.8	16	79	125
Methyl tert-butyl ether	50.0	46.3	92.6	50.0	46.5	92.9	0.4	23	77	125
Naphthalene	50.0	53.1	106	50.0	54.6	109	2.8	27	72	132
t-Butyl alcohol	500	379	75.9	500	403	80.6	6.0	54	11	154

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

ATC ASSOCIATES, INC.

PANTRY 585

Analysis: Volatile Organics:Method 8260B
Method: SW8260B

WorkOrder: 08100735
Lab Batch ID: R190922

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: QB_081024A-2839124 Units: ug/L
Analysis Date: 10/24/2008 12:38 Analyst: RP

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
tert-Amyl alcohol	500	415	82.9	500	427	85.3	2.8	47	44	141
tert-Amyl methyl ether	50.0	45.8	91.6	50.0	46.1	92.3	0.8	21	73	123
tert-Butyl ethyl ether	50.0	46.1	92.2	50.0	46.1	92.2	0.0	24	75	125
tert-Butyl formate	50.0	44.8	89.5	50.0	44.4	88.8	0.8	34	38	172
Toluene	50.0	57.7	115	50.0	55.9	112	3.1	21	79	124
m,p-Xylene	100	116	116	100	116	116	0.2	20	77	132
o-Xylene	50.0	55.8	112	50.0	55.8	112	0.0	17	76	127
Xylenes,Total	150.0	171.8	114.3	150.0	171.8	114.2	0.1	20	76	130
Surr: 1,2-Dichloroethane-d4	50.0	40.1	80.3	50.0	41.3	82.7	2.9	30	74	133
Surr: 4-Bromofluorobenzene	50.0	49.0	97.9	50.0	50.0	100	2.2	30	74	116
Surr: Toluene-d8	50.0	48.9	97.8	50.0	49.3	98.7	0.9	30	84	112

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
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Quality Control Report

ATC ASSOCIATES, INC.

PANTRY 585

Analysis: Volatile Organics:Method 8260B
Method: SW8260B

WorkOrder: 08100735
Lab Batch ID: R191022

Method Blank

RunID: GB_081024A-2840964 Units: ug/L
Analysis Date: 10/24/2008 11:32 Analyst: DN
Preparation Date: 10/24/2008 11:32 Prep By: Method SW5035

Analyte	Result	Rep Limit
1,2-Dichloroethane	ND	5.0
3,3-Dimethyl-1-butanol	ND	10
Benzene	ND	5.0
Diisopropyl ether	ND	5.0
Ethanol	ND	100
Ethylbenzene	ND	5.0
Methyl tert-butyl ether	ND	5.0
Naphthalene	ND	5.0
t-Butyl alcohol	ND	10
tert-Amyl alcohol	ND	10
tert-Amyl methyl ether	ND	5.0
tert-Butyl ethyl ether	ND	5.0
tert-Butyl formate	ND	1.0
Toluene	ND	5.0
m,p-Xylene	ND	5.0
o-Xylene	ND	5.0
Xylenes,Total	ND	5.0
Surr: 1,2-Dichloroethane-d4	97.9	74-133
Surr: 4-Bromofluorobenzene	101.1	74-116
Surr: Toluene-d8	100.8	84-112

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08100735-08A	MW-9
08100735-09A	MW-12
08100735-11A	MW-18
08100735-12A	MW-19
08100735-15A	MW-23
08100735-16A	MW-24
08100735-17A	MW-29
08100735-18A	MW-30
08100735-19A	MW-31

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: GB_081024A-2840962 Units: ug/L
Analysis Date: 10/24/2008 10:07 Analyst: DN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1,2-Dichloroethane	50.0	53.3	107	50.0	53.4	107	0.2	21	73	134
3,3-Dimethyl-1-butanol	500	496	99.2	500	478	95.6	3.8	47	45	122
Benzene	50.0	51.7	103	50.0	52.4	105	1.4	23	79	124
Diisopropyl ether	50.0	56.7	113	50.0	58.4	117	2.9	21	79	127
Ethanol	1000	1430	143	1000	1200	120	17.7	66	46	175
Ethylbenzene	50.0	52.0	104	50.0	52.9	106	1.6	16	79	125
Methyl tert-butyl ether	50.0	53.5	107	50.0	55.4	111	3.4	23	77	125
Naphthalene	50.0	54.4	109	50.0	55.2	110	1.5	27	72	132
t-Butyl alcohol	500	542	108	500	505	101	7.0	54	11	154

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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Quality Control Report

ATC ASSOCIATES, INC.

PANTRY 585

Analysis: Volatile Organics:Method 8260B
Method: SW8260B

WorkOrder: 08100735
Lab Batch ID: R191022

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: GB_081024A-2840962 Units: ug/L
Analysis Date: 10/24/2008 10:07 Analyst: DN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
tert-Amyl alcohol	500	552	110	500	536	107	2.9	47	44	141
tert-Amyl methyl ether	50.0	55.8	112	50.0	54.7	109	2.0	21	73	123
tert-Butyl ethyl ether	50.0	57.0	114	50.0	58.3	117	2.3	24	75	125
tert-Butyl formate	50.0	72.4	145	50.0	71.6	143	1.2	34	38	172
Toluene	50.0	57.0	114	50.0	58.0	116	1.7	21	79	124
m,p-Xylene	100	106	106	100	108	108	1.3	20	77	132
o-Xylene	50.0	55.1	110	50.0	55.5	111	0.7	17	76	127
Xylenes,Total	150.0	161.1	107.5	150.0	163.5	108.7	1.1	20	76	130
Surr: 1,2-Dichloroethane-d4	50.0	49.9	99.7	50.0	50.6	101	1.5	30	74	133
Surr: 4-Bromofluorobenzene	50.0	49.7	99.3	50.0	49.4	98.8	0.5	30	74	116
Surr: Toluene-d8	50.0	50.0	99.9	50.0	49.8	99.7	0.2	30	84	112

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

ATC ASSOCIATES, INC.

PANTRY 585

Analysis: Volatile Organics:Method 8260B
Method: SW8260B

WorkOrder: 08100735
Lab Batch ID: R191102

Method Blank

RunID: QB_081027A-2842263 Units: ug/L
Analysis Date: 10/27/2008 12:15 Analyst: DN
Preparation Date: 10/27/2008 12:15 Prep By: Method SW5035

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08100735-07A	MW-8
08100735-09A	MW-12
08100735-15A	MW-23

Analyte	Result	Rep Limit
1,2-Dichloroethane	ND	5.0
3,3-Dimethyl-1-butanol	ND	10
Benzene	ND	5.0
Diisopropyl ether	ND	5.0
Ethanol	ND	100
Ethylbenzene	ND	5.0
Methyl tert-butyl ether	ND	5.0
Naphthalene	ND	5.0
t-Butyl alcohol	ND	10
tert-Amyl alcohol	ND	10
tert-Amyl methyl ether	ND	5.0
tert-Butyl ethyl ether	ND	5.0
tert-Butyl formate	ND	1.0
Toluene	ND	5.0
m,p-Xylene	ND	5.0
o-Xylene	ND	5.0
Xylenes,Total	ND	5.0
Surr: 1,2-Dichloroethane-d4	81.1	74-133
Surr: 4-Bromofluorobenzene	98.9	74-116
Surr: Toluene-d8	98.7	84-112

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: QB_081027A-2842261 Units: ug/L
Analysis Date: 10/27/2008 10:45 Analyst: DN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1,2-Dichloroethane	50.0	37.8	75.6	50.0	39.5	78.9	4.2	21	73	134
3,3-Dimethyl-1-butanol	500	392	78.3	500	425	85.0	8.1	47	45	122
Benzene	50.0	51.1	102	50.0	52.5	105	2.9	23	79	124
Diisopropyl ether	50.0	45.6	91.2	50.0	47.2	94.4	3.5	21	79	127
Ethanol	1000	700	70.0	1000	636	63.6	9.7	66	46	175
Ethylbenzene	50.0	54.0	108	50.0	56.5	113	4.4	16	79	125
Methyl tert-butyl ether	50.0	45.3	90.7	50.0	47.7	95.4	5.1	23	77	125
Naphthalene	50.0	51.4	103	50.0	51.3	103	0.2	27	72	132
t-Butyl alcohol	500	357	71.5	500	378	75.6	5.6	54	11	154

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

ATC ASSOCIATES, INC.

PANTRY 585

Analysis: Volatile Organics:Method 8260B
Method: SW8260B

WorkOrder: 08100735
Lab Batch ID: R191102

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: QB_081027A-2842261 Units: ug/L
Analysis Date: 10/27/2008 10:45 Analyst: DN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
tert-Amyl alcohol	500	348	69.7	500	386	77.2	10.3	47	44	141
tert-Amyl methyl ether	50.0	44.5	88.9	50.0	47.5	95.0	6.6	21	73	123
tert-Butyl ethyl ether	50.0	46.2	92.5	50.0	47.5	95.1	2.7	24	75	125
tert-Butyl formate	50.0	46.5	92.9	50.0	47.8	95.7	2.9	34	38	172
Toluene	50.0	55.3	111	50.0	57.0	114	3.1	21	79	124
m,p-Xylene	100	111	111	100	116	116	4.3	20	77	132
o-Xylene	50.0	54.4	109	50.0	55.9	112	2.8	17	76	127
Xylenes,Total	150.0	165.4	110.2	150.0	171.9	114.5	3.8	20	76	130
Surr: 1,2-Dichloroethane-d4	50.0	41.2	82.3	50.0	41.9	83.7	1.6	30	74	133
Surr: 4-Bromofluorobenzene	50.0	49.2	98.3	50.0	48.6	97.1	1.3	30	74	116
Surr: Toluene-d8	50.0	49.0	98.1	50.0	50.2	100	2.3	30	84	112

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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Quality Control Report

ATC ASSOCIATES, INC.

PANTRY 585

Analysis: Volatile Organics:Method 8260B
Method: SW8260B

WorkOrder: 08100735
Lab Batch ID: R191122

Method Blank

RunID: QB_081028A-2842686 Units: ug/L
Analysis Date: 10/28/2008 11:45 Analyst: DN
Preparation Date: 10/28/2008 11:45 Prep By: Method SW5035

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08100735-18A	MW-30

Analyte	Result	Rep Limit
Toluene	ND	5.0
Surr: 1,2-Dichloroethane-d4	77.1	74-133
Surr: 4-Bromofluorobenzene	101.2	74-116
Surr: Toluene-d8	99.8	84-112

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: QB_081028A-2842684 Units: ug/L
Analysis Date: 10/28/2008 10:15 Analyst: DN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Toluene	50.0	54.1	108	50.0	58.8	118	8.2	21	79	124
Surr: 1,2-Dichloroethane-d4	50.0	39.8	79.7	50.0	39.7	79.3	0.5	30	74	133
Surr: 4-Bromofluorobenzene	50.0	49.5	99.1	50.0	50.6	101	2.1	30	74	116
Surr: Toluene-d8	50.0	51.4	103	50.0	48.9	97.7	5.1	30	84	112

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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Quality Control Report

ATC ASSOCIATES, INC.

PANTRY 585

Analysis: Iron, Ferrous
Method: HACH 8146

WorkOrder: 08100735
Lab Batch ID: R190641

Method Blank

RunID: WET_081017ZE-2833903 Units: mg/L
Analysis Date: 10/17/2008 17:15 Analyst: JL

Analyte	Result	Rep Limit
Iron, Ferrous	ND	0.050

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08100735-01D	MW-1
08100735-02D	DMW-1
08100735-03D	DMW-2
08100735-04D	DMW-3
08100735-05D	MW-4
08100735-07D	MW-8
08100735-08D	MW-9
08100735-09D	MW-12
08100735-10D	MW-16

Laboratory Control Sample (LCS)

RunID: WET_081017ZE-2833904 Units: mg/L
Analysis Date: 10/17/2008 17:15 Analyst: JL

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Iron, Ferrous	1.000	0.9190	91.90	80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08100735-02
RunID: WET_081017ZE-2833906 Units: mg/L
Analysis Date: 10/17/2008 17:15 Analyst: JL

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Iron, Ferrous	ND	1	0.9200	92.00	1	0.9340	93.40	1.510	20	80	120

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

ATC ASSOCIATES, INC.

PANTRY 585

Analysis: Iron, Ferrous
Method: HACH 8146

WorkOrder: 08100735
Lab Batch ID: R190642

Method Blank

RunID: WET_081017ZF-2833941 Units: mg/L
Analysis Date: 10/17/2008 17:15 Analyst: JL

Analyte	Result	Rep Limit
Iron, Ferrous	ND	0.050

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08100735-11D	MW-18
08100735-12D	MW-19
08100735-13D	MW-20
08100735-14D	MW-21
08100735-15D	MW-23
08100735-16D	MW-24
08100735-17D	MW-29
08100735-18D	MW-30
08100735-19D	MW-31

Laboratory Control Sample (LCS)

RunID: WET_081017ZF-2833942 Units: mg/L
Analysis Date: 10/17/2008 17:15 Analyst: JL

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Iron, Ferrous	1.000	0.9190	91.90	80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08100735-19
RunID: WET_081017ZF-2833944 Units: mg/L
Analysis Date: 10/17/2008 17:15 Analyst: JL

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Iron, Ferrous	ND	1	0.9120	91.20	1	0.9040	90.40	0.8811	20	80	120

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

ATC ASSOCIATES, INC.

PANTRY 585

Analysis: Sulfate by ASTM D516-90
Method: ASTM D516-90

WorkOrder: 08100735
Lab Batch ID: R190678

Method Blank

RunID: WET_081022B-2834504 Units: mg/L
Analysis Date: 10/22/2008 9:00 Analyst: SRA

Analyte	Result	Rep Limit
Sulfate	ND	5.0

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08100735-01D	MW-1
08100735-02D	DMW-1
08100735-03D	DMW-2
08100735-04D	DMW-3
08100735-05D	MW-4
08100735-07D	MW-8
08100735-08D	MW-9
08100735-09D	MW-12
08100735-10D	MW-16
08100735-11D	MW-18

Laboratory Control Sample (LCS)

RunID: WET_081022B-2834505 Units: mg/L
Analysis Date: 10/22/2008 9:00 Analyst: SRA

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Sulfate	10.00	10.01	100.1	90	110

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08100735-01
RunID: WET_081022B-2834507 Units: mg/L
Analysis Date: 10/22/2008 9:00 Analyst: SRA

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Sulfate	ND	10	10.01	100.1	10	9.920	99.20	0.9032	20	80	120

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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Quality Control Report

ATC ASSOCIATES, INC.

PANTRY 585

Analysis: Sulfate by ASTM D516-90
Method: ASTM D516-90

WorkOrder: 08100735
Lab Batch ID: R190679

Method Blank

RunID: WET_081022C-2834560 Units: mg/L
Analysis Date: 10/22/2008 10:30 Analyst: SRA

Analyte	Result	Rep Limit
Sulfate	ND	5.0

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08100735-12D	MW-19
08100735-13D	MW-20
08100735-14D	MW-21
08100735-15D	MW-23
08100735-16D	MW-24
08100735-17D	MW-29
08100735-18D	MW-30
08100735-19D	MW-31

Laboratory Control Sample (LCS)

RunID: WET_081022C-2834561 Units: mg/L
Analysis Date: 10/22/2008 10:30 Analyst: SRA

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Sulfate	10.00	10.01	100.1	90	110

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08100735-14
RunID: WET_081022C-2834563 Units: mg/L
Analysis Date: 10/22/2008 10:30 Analyst: SRA

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Sulfate	ND	10	10.58	105.8	10	10.48	104.8	0.9497	20	80	120

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

PANTRY 585

Analysis: Nitrate (as N)
Method: M4500-NO3 E

WorkOrder: 08100735
Lab Batch ID: R190954

Method Blank

RunID: WET_081026A-2839807 Units: mg/L
Analysis Date: 10/26/2008 13:00 Analyst: KDS

Analyte	Result	Rep Limit
Nitrate (As N)	ND	0.010

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08100735-01D	MW-1
08100735-02D	DMW-1
08100735-03D	DMW-2
08100735-04D	DMW-3
08100735-05D	MW-4
08100735-07D	MW-8
08100735-08D	MW-9
08100735-09D	MW-12
08100735-10D	MW-16

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: WET_081026A-2839808 Units: mg/L
Analysis Date: 10/26/2008 13:00 Analyst: KDS

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Nitrate (As N)	0.1500	0.1390	92.67	0.1500	0.1450	96.67	4.2	20	90	110

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08100735-01
RunID: WET_081026A-2839811 Units: mg/L
Analysis Date: 10/26/2008 13:00 Analyst: KDS

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Nitrate (As N)	0.02200	0.15	0.1900	112.0	0.15	0.1840	108.0	3.209	20	80	120

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

PANTRY 585

Analysis: Nitrate (as N)
Method: M4500-NO3 E

WorkOrder: 08100735
Lab Batch ID: R190955

Method Blank

RunID: WET_081026B-2839827 Units: mg/L
Analysis Date: 10/26/2008 13:00 Analyst: KDS

Analyte	Result	Rep Limit
Nitrate (As N)	ND	0.010

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08100735-11D	MW-18
08100735-12D	MW-19
08100735-13D	MW-20
08100735-15D	MW-23
08100735-17D	MW-29
08100735-18D	MW-30
08100735-19D	MW-31

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: WET_081026B-2839828 Units: mg/L
Analysis Date: 10/26/2008 13:00 Analyst: KDS

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Nitrate (As N)	0.1500	0.1420	94.67	0.1500	0.1370	91.33	3.6	20	90	110

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08100735-11
RunID: WET_081026B-2839831 Units: mg/L
Analysis Date: 10/26/2008 13:00 Analyst: KDS

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Nitrate (As N)	1.040	0.75	1.920	117.3	0.75	1.860	109.3	3.175	20	80	120

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

PANTRY 585

Analysis: Nitrate (as N) **WorkOrder:** 08100735
Method: M4500-NO3 E **Lab Batch ID:** R191072

Method Blank

RunID: WET_081027T-2841814 Units: mg/L
Analysis Date: 10/27/2008 16:00 Analyst: JZ

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08100735-14D	MW-21
08100735-16D	MW-24

Analyte	Result	Rep Limit
Nitrate (As N)	ND	0.010

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: WET_081027T-2841815 Units: mg/L
Analysis Date: 10/27/2008 16:00 Analyst: JZ

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Nitrate (As N)	0.1500	0.1550	103.3	0.1500	0.1570	104.7	1.3	20	90	110

Sample Duplicate

Original Sample: 08100735-14
RunID: WET_081027T-2841817 Units: mg/L
Analysis Date: 10/27/2008 16:00 Analyst: JZ

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Nitrate (As N)	0.954	0.982	2.89	20

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

Sample Receipt Checklist

And

Chain of Custody

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Sample Receipt Checklist

Workorder:	**08100735**	Received By:	**JM**
Date and Time Received:	**10/17/2008 10:00:00 AM**	Carrier name:	**FedEx-Std 1 Day PM**
Temperature:	**2.5°C**	Chilled by:	**Water Ice**

1.	**Shipping container/cooler in good condition?**	Yes ☑	No ☐	Not Present ☐
2.	**Custody seals intact on shippping container/cooler?**	Yes ☐	No ☐	Not Present ☑
3.	**Custody seals intact on sample bottles?**	Yes ☐	No ☐	Not Present ☑
4.	**Chain of custody present?**	Yes ☑	No ☐	
5.	**Chain of custody signed when relinquished and received?**	Yes ☑	No ☐	
6.	**Chain of custody agrees with sample labels?**	Yes ☑	No ☐	
7.	**Samples in proper container/bottle?**	Yes ☑	No ☐	
8.	**Sample containers intact?**	Yes ☑	No ☐	
9.	**Sufficient sample volume for indicated test?** No sample received for MW-5 ferrous iron, nitrate, and sulfate analyses	Yes ☐	No ☑	
10.	**All samples received within holding time?**	Yes ☑	No ☐	
11.	**Container/Temp Blank temperature in compliance?**	Yes ☑	No ☐	
12.	**Water - VOA vials have zero headspace?**	Yes ☑	No ☐	VOA Vials Not Present ☐
13.	**Water - Preservation checked upon receipt (except VOA*)?**	Yes ☐	No ☐	Not Applicable ☑

***VOA Preservation Checked After Sample Analysis**

SPL Representative: _____ **Contact Date & Time:** _____

Client Name Contacted: _____

Non Conformance Issues: No sample received for MW-5 ferrous iron, nitrate, and sulfate analyses

Client Instructions:

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No. 08100735 | 269005 | page 1 of 2

Client Name: ATC Associates
Address: 3417 A Trade Park Ct
Phone/Fax: 704-529-3200
Client Contact: Jake White Email:
Project Name/No.:
Site Name: Pantry 585
Site Location: Anderson SC
Invoice To: Ph:

Requested Analysis: BTEX nap MTBE EDB 8260-W-DW-SC; 1,2 DCA, 8 oxygenates; Lead nitrates SW 1 Fates ferrous Fe; 200.8; NO3-W 4500; Fe, Ferrous-W SO4-W-D516

SAMPLE ID	DATE	TIME	comp	grab	matrix (W=water S=soil O=oil SL=sludge X=other)	bottle (P=plastic A=amber glass G=glass V=vial X=other)	size (1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other)	pres. (1=HCl 2=HNO3 3=H2SO4 X=other)	Number of Containers	BTEX nap MTBE EDB 8260-W-DW-SC	1,2 DCA, 8 oxygenates	Lead nitrates SW 1 Fates ferrous Fe	200.8	NO3-W 4500	Fe, Ferrous-W SO4-W-D516				
MW-1	10/16/08	13:20			W	GV X	40X	X	8-9										8
DMW-1		12:45																	8
DMW-2		9:15																	8
DMW-3		12:30																	8
MW-4		11:00																	8
MW-5		9:00																	7
MW-8		13:15																	9
MW-9		12:00																	8
MW-12		9:30																	8
MW-16		11:45																	8

Client/Consultant Remarks:

Laboratory remarks: No C/S BW-73-(TH5) BW 41-(8) (3W) (1)

Intact? Y N
Ice? Y N
Temp: 2.5

Requested TAT
Contract ☐ 72hr ☐
24hr ☐ Standard ☑
48hr ☐
Other ☐ _____

Special Reporting Requirements Results: Fax ☐ Email ☐ PDF ☐
Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☐

Special Detection Limits (specify):

PM review (initial):

1. Relinquished by Sampler:	date 10/16/08	time 5:00	2. Received by:
3. Relinquished by:	date 10/17/08	time 9:00	4. Received by:
5. Relinquished by:	date	time 10:00	6. Received by Laboratory:

☐ 8880 Interchange Drive
Houston, TX 77054 (713) 660-0901

☑ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

☐ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No. 08100735 | 269004

Client Name: ATC Associates
Address: 3417 A Trade Park Ct
Phone/Fax: 704-529-3200
Client Contact: Jake White Email:
Project Name/No.:
Site Name: Pantry 588
Site Location: Anderson SC
Invoice To: Ph:

matrix: W=water S=soil O=oil SL=sludge X=other
bottle: P=plastic A=amber glass G=glass V=vial X=other
size: 1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other
pres.: 1=HCl 2=HNO3 3=H2SO4 X=other

Requested Analysis

SAMPLE ID	DATE	TIME	comp	grab	matrix	bottle	size	pres.	Number of Containers	BTEX MTBE EDB	1,2 DCA, 8 oxygenates	Lead nitrates sulfate ferrous iron						
MW-18	10/16/08	10:30			W	6PV	1 40mX	X	8-9	X	X	X						
MW-19		12:15																
MW-20		9:45																
MW-21		10:45																
MW-23		10:15																
MW-24		10:00																
MW-29		13:30																
MW-30		11:30																
MW-31		11:15																

Client/Consultant Remarks:

Laboratory remarks: No C/S

Intact? ☑ Y ☐ N
Ice? ☑ Y ☐ N
Temp: 2.5

Requested TAT

Contract ☐ 72hr ☐
24hr ☐ Standard ☑
48hr ☐
Other ☐ _____

Special Reporting Requirements Results: Fax ☐ Email ☐ PDF ☐
Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☐

Special Detection Limits (specify):

PM review (initial):

1. Relinquished by Sampler:	date 5.00	time	2. Received by:
3. Relinquished by:	date 10/17/08	time 9:00	4. Received by:
5. Relinquished by:	date 10/17/08	time 10:00	6. Received by Laboratory:

☐ 8880 Interchange Drive
Houston, TX 77054 (713) 660-0901

☑ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

☐ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

Project Manager Signature File
COPIES TO:

ments:

ctions:

ed:

0215

FedEx Express **US Airbill**

FedEx Tracking Number 8659 5855 1850

1 From This portion can be removed for Recipient's records.

Date 10/16/08 FedEx Tracking Number 865958551850

Sender's Name Nathan Rebone Phone 704 529320

Company ITC Associates

Address 13417 A Trade Park Cir Dept./Floor/Suite/Room

City Charlotte State NC ZIP 28217

2 Your Internal Billing Reference

3 To

Recipient's Name SHIPPING/RECEIVING Phone 337 [illegible]

Company SOUTHERN PETROLEUM LAB

Recipient's Address 500 AMBASSADOR CAFFERY PKWY Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City SCOTT State LA ZIP 70583-8360

0090087703

8659 5855 1850

RECIPIENT: PEEL HERE

fedex.com 1.800.GoFedEx 1.800.463.3339

4a Express Package Service — *Packages up to 150 lbs.*

- [ ] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [x] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate. * To most locations.

4b Express Freight Service — *Packages over 150 lbs.*

- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation: ** To most locations.

5 Packaging

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other

* Declared value limit $500.

6 Special Handling — Include FedEx address in Section 3.

- [ ] SATURDAY Delivery — Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] HOLD Weekday at FedEx Location — Not available for FedEx First Overnight.
- [ ] HOLD Saturday at FedEx Location — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [x] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check — Obtain Recip. Acct. No. [ ]

0705

Total Packages 17 Total Weight 610

Credit Card Auth.

*Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

8 Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. *Fee applies.*

519

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MOVE THIS AREA

FedEx Express **US Airbill**

FedEx Tracking Number 8659 5855 5250

0215

Recipients Copy

1 From This portion can be removed for Recipient's records.

Date 10/06/

FedEx Tracking Number 865958555250

Sender's Name Nelle Kinnes Phone 337 232 3000

Company A.C. Power - Dev

Address 3001 A Trade Tak Ctr

Dept./Floor/Suite/Room

City Crowley State LA ZIP 70517

2 Your Internal Billing Reference

3 To

Recipient's Name SHIPPING/RECEIVING Phone 337 237-1173

Company SOUTHERN PETROLEUM LAS

Recipient's Address 500 AMBASSADOR CAFFERY PKWY

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City LAFAYETTE State LA ZIP 70508-3300

0385467783

8659 5855 5250

RECIPIENT: PEEL HERE

fedex.com 1.800.GoFedEx 1.800.463.3339

4a Express Package Service — *Packages up to 150 lbs.*

- [ ] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [x] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate.

* To most locations.

4b Express Freight Service — *Packages over 150 lbs.*

- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation.

** To most locations.

5 Packaging

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other

* Declared value limit $500.

6 Special Handling — Include FedEx address in Section 3.

- [ ] SATURDAY Delivery — Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] HOLD Weekday at FedEx Location — Not available for FedEx First Overnight.
- [ ] HOLD Saturday at FedEx Location — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [x] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Obtain Recip. Acct. No. [ ]

[redacted]

Total Packages ____ Total Weight ____ [redacted] Credit Card Auth.

*Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

8 Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. *Fee applies.*

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Complete Login

Date/Time

QA

Supervisor

MUR11

0215

FedEx. US Airbill Express

FedEx Tracking Number 8659 5855 6072

RECIPIENT: PEEL HERE

fedex.com 1.800.GoFedEx 1.800.463.3339

1 From This portion can be removed for Recipient's records.

Date 10/16/18 FedEx Tracking Number 865958556072

Sender's Name Nathan Roberts Phone 704 529-3200

Company ATC Associates

Address 3417 A Trade Park Ct Dept./Floor/Suite/Room

City Charlotte State NC ZIP 28217

2 Your Internal Billing Reference

3 To

Recipient's Name SHIPPING/RECEIVING Phone 803-[illegible]

Company SOUTHERN PETROLEUM LAB

Recipient's Address 500 AMBASSADOR CAFFERY PKWY Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City SCOTT State LA ZIP 70583

8659 5855 6072

4a Express Package Service *Packages up to 150 lbs.*

- [ ] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [x] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.** Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate.

* To most locations.

4b Express Freight Service *Packages over 150 lbs.*

- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation.

** To most locations.

5 Packaging

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other

* Declared value limit $500.

6 Special Handling — Include FedEx address in Section 3.

- [ ] SATURDAY Delivery — Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] HOLD Weekday at FedEx Location — Not available for FedEx First Overnight.
- [ ] HOLD Saturday at FedEx Location — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [x] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Obtain Recip. Acct. No. [ ]

[redacted]

Total Packages 1 Total Weight 71 [redacted]

Credit Card Auth.

Your liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

8 Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies.

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Project TO:

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Case Narrative for:

ATC ASSOCIATES, INC.

Certificate of Analysis Number:

08100949

Report To:		Project Name:	ANDERSON, SC	
ATC ASSOCIATES, INC.		Site:	PANTRY 585	
JAKE WHITTLE		Site Address:		
3417-A TRADE PARK CT.			ANDERSON	SC
CHARLOTTE		PO Number:		
NC		State:	South Carolina	
28217-		State Cert. No.:	73004001	
ph: (704) 529-3200	fax:	Date Reported:	11/4/2008	

Received lead samples for MW-2, MW-3, MW-6, MW-10, MW-11 and MW-13 not recorded on the Chain of Custody. Client, via e-mail, requested lead analysis performed for all sample containers received not recorded on the Chain of Custody.

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data for those samples spiked by the laboratory and may be applicable to other samples of similar matrix from the site. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process. If insufficient sample is supplied for MS/MSD, a Laboratory Control Sample (LCS) and a Laboratory Control Sample Duplicate (LCSD) are reported with the analytical batch and serve as the batch quality control (QC).

Results are reported on a Wet Weight Basis unless otherwise noted in the sample unit field as -dry.

The collection of samples using encores, terracores or other field collection devices may result in inconsistent initial sample weights for the parent sample and MS/MSD samples.

The MS/MSD recovery and precision data are calculated based on detected spike concentrations that are adjusted for initial sample weights. As a result of the variability between initial sample weights, the calculated RPD may have increased bias.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

TOTAL NUMBER OF PAGES IN THIS REPORT: _____ PAGES

11/4/2008

Amy K. Jackson
Project Manager

Date

Test results meet all requirements of NELAC, unless specified in the narrative.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

ATC ASSOCIATES, INC.

Certificate of Analysis Number:

08100949

Report To: ATC ASSOCIATES, INC.
JAKE WHITTLE
3417-A TRADE PARK CT.

CHARLOTTE
NC
28217-
ph: (704) 529-3200 fax: (704) 529-3272

Fax To:

Project Name: ANDERSON, SC
Site: PANTRY 585
Site Address:
ANDERSON SC
PO Number:
State: South Carolina
State Cert. No.: 73004001
Date Reported: 11/4/2008

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
MW-2	08100949-01	Water	10/22/2008 12:15:00 PM	10/23/2008 10:00:21 AM	272526,272504	☐
MW-3	08100949-02	Water	10/22/2008 12:30:00 PM	10/23/2008 10:00:21 AM	272526,272504	☐
MW-6	08100949-03	Water	10/22/2008 1:45:00 PM	10/23/2008 10:00:21 AM	272526,272504	☐
MW-10	08100949-04	Water	10/22/2008 1:30:00 PM	10/23/2008 10:00:21 AM	272526,272504	☐
MW-11	08100949-05	Water	10/22/2008 1:15:00 PM	10/23/2008 10:00:21 AM	272526,272504	☐
MW-13	08100949-06	Water	10/22/2008 12:00:00 PM	10/23/2008 10:00:21 AM	272526,272504	☐
MW-25	08100949-07	Water	10/22/2008 1:00:00 PM	10/23/2008 10:00:21 AM	272526,272504	☐
MW-14	08100949-08	Water	10/22/2008 11:00:00 AM	10/23/2008 10:00:21 AM	272526,272504	☐
MW-15	08100949-09	Water	10/22/2008 11:15:00 AM	10/23/2008 10:00:21 AM	272526,272504	☐
KMO-17	08100949-10	Water	10/22/2008 11:45:00 AM	10/23/2008 10:00:21 AM	272526,272504	☐
KMO-18	08100949-11	Water	10/22/2008 11:30:00 AM	10/23/2008 10:00:21 AM	272526,272504	☐
MW-17	08100949-12	Water	10/22/2008 12:45:00 PM	10/23/2008 10:00:21 AM	272526,272504	☐

Amy K. Jackson
Project Manager

11/4/2008
Date

Ron Benjamin
Laboratory Director

Tristan Davis
Quality Assurance Officer

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-2 **Collected:** 10/22/2008 12:15 **SPL Sample ID:** 08100949-01

Site: PANTRY 585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
IRON, FERROUS				**MCL**	**HACH 8146**	**Units: mg/L**	
Iron, Ferrous	34.5		1.25	25	10/23/08 12:15	KDS	2840472
METHOD 504.1				**MCL**	**E504.1**	**Units: ug/L**	
1,2-Dibromoethane	ND		0.021	1	10/31/08 19:13	MAR	2848491
Surr: 1-Chloro-2-fluorobenzene	77.5	%	33-151	1	10/31/08 19:13	MAR	2848491

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	10/27/2008 9:49	DGP	1.04

NITRATE (AS N)				**MCL**	**M4500-NO3 E**	**Units: mg/L**	
Nitrate (As N)	ND		0.01	1	10/29/08 8:30	MAT	2843755
SULFATE BY ASTM D516-90				**MCL**	**ASTM D516-90**	**Units: mg/L**	
Sulfate	12.8		5	1	10/27/08 7:50	SRA	2840646
TOTAL METALS BY METHOD 200.8				**MCL**	**E200.8**	**Units: ug/L**	
Lead	1.47		1	1	10/31/08 5:42	RJD	2846755

Prep Method	Prep Date	Prep Initials	Prep Factor
E200.8	10/23/2008 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**	
3,3-Dimethyl-1-butanol	ND		10	1	10/24/08 21:11	RP	2840630
Diisopropyl ether	ND		5	1	10/24/08 21:11	RP	2840630
Ethanol	ND		100	1	10/24/08 21:11	RP	2840630
t-Butyl alcohol	ND		10	1	10/24/08 21:11	RP	2840630
tert-Amyl alcohol	ND		10	1	10/24/08 21:11	RP	2840630
tert-Amyl methyl ether	ND		5	1	10/24/08 21:11	RP	2840630
tert-Butyl ethyl ether	ND		5	1	10/24/08 21:11	RP	2840630
tert-Butyl formate	ND		1	1	10/24/08 21:11	RP	2840630
1,2-Dichloroethane	ND		5	1	10/24/08 21:11	RP	2840630
Benzene	ND		5	1	10/24/08 21:11	RP	2840630
Ethylbenzene	ND		5	1	10/24/08 21:11	RP	2840630
Methyl tert-butyl ether	ND		5	1	10/24/08 21:11	RP	2840630
Naphthalene	ND		5	1	10/24/08 21:11	RP	2840630
Toluene	ND		5	1	10/24/08 21:11	RP	2840630
m,p-Xylene	ND		5	1	10/24/08 21:11	RP	2840630
o-Xylene	ND		5	1	10/24/08 21:11	RP	2840630
Xylenes,Total	ND		5	1	10/24/08 21:11	RP	2840630
Surr: 1,2-Dichloroethane-d4	81.7	%	74-133	1	10/24/08 21:11	RP	2840630
Surr: 4-Bromofluorobenzene	105	%	74-116	1	10/24/08 21:11	RP	2840630
Surr: Toluene-d8	98.3	%	84-112	1	10/24/08 21:11	RP	2840630

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-3 **Collected:** 10/22/2008 12:30 **SPL Sample ID:** 08100949-02

Site: PANTRY 585

Analyses/Method	Result	QUAL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
IRON, FERROUS				**MCL**	**HACH 8146**		**Units: mg/L**	
Iron, Ferrous	22		0.05		1	10/23/08 12:15	KDS	2840473
METHOD 504.1				**MCL**	**E504.1**		**Units: ug/L**	
1,2-Dibromoethane	ND		0.021		1	10/31/08 19:33	MAR	2848492
Surr: 1-Chloro-2-fluorobenzene	79.1		% 33-151		1	10/31/08 19:33	MAR	2848492

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	10/27/2008 9:49	DGP	1.03

NITRATE (AS N)				**MCL**	**M4500-NO3 E**		**Units: mg/L**	
Nitrate (As N)	0.02		0.01		1	10/29/08 8:30	MAT	2843753
SULFATE BY ASTM D516-90				**MCL**	**ASTM D516-90**		**Units: mg/L**	
Sulfate	ND		5		1	10/27/08 7:50	SRA	2840643
TOTAL METALS BY METHOD 200.8				**MCL**	**E200.8**		**Units: ug/L**	
Lead	4.12		1		1	10/31/08 6:18	RJD	2846763

Prep Method	Prep Date	Prep Initials	Prep Factor
E200.8	10/23/2008 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B				**MCL**	**SW8260B**		**Units: ug/L**	
3,3-Dimethyl-1-butanol	ND		10		1	10/27/08 12:45	DN	2842264
Diisopropyl ether	ND		5		1	10/27/08 12:45	DN	2842264
Ethanol	ND		100		1	10/27/08 12:45	DN	2842264
t-Butyl alcohol	ND		10		1	10/27/08 12:45	DN	2842264
tert-Amyl alcohol	ND		10		1	10/27/08 12:45	DN	2842264
tert-Amyl methyl ether	ND		5		1	10/27/08 12:45	DN	2842264
tert-Butyl ethyl ether	ND		5		1	10/27/08 12:45	DN	2842264
tert-Butyl formate	ND		1		1	10/27/08 12:45	DN	2842264
1,2-Dichloroethane	ND		5		1	10/27/08 12:45	DN	2842264
Benzene	ND		5		1	10/27/08 12:45	DN	2842264
Ethylbenzene	ND		5		1	10/27/08 12:45	DN	2842264
Methyl tert-butyl ether	ND		5		1	10/27/08 12:45	DN	2842264
Naphthalene	ND		5		1	10/27/08 12:45	DN	2842264
Toluene	ND		5		1	10/27/08 12:45	DN	2842264
m,p-Xylene	ND		5		1	10/27/08 12:45	DN	2842264
o-Xylene	ND		5		1	10/27/08 12:45	DN	2842264
Xylenes,Total	ND		5		1	10/27/08 12:45	DN	2842264
Surr: 1,2-Dichloroethane-d4	83.2		% 74-133		1	10/27/08 12:45	DN	2842264
Surr: 4-Bromofluorobenzene	97.9		% 74-116		1	10/27/08 12:45	DN	2842264
Surr: Toluene-d8	98.4		% 84-112		1	10/27/08 12:45	DN	2842264

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-6 **Collected:** 10/22/2008 13:45 **SPL Sample ID:** 08100949-03

Site: **PANTRY 585**

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
IRON, FERROUS				**MCL**	**HACH 8146**	**Units: mg/L**	
Iron, Ferrous	8.81		1.25	25	10/23/08 12:15	KDS	2840460

Prep Method	Prep Date	Prep Initials	Prep Factor
	01/07/1900 19:26		1.00

METHOD 504.1				**MCL**	**E504.1**	**Units: ug/L**	
1,2-Dibromoethane	ND		0.021	1	10/31/08 19:52	MAR	2848493
Surr: 1-Chloro-2-fluorobenzene	67.9		% 33-151	1	10/31/08 19:52	MAR	2848493

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	10/27/2008 9:49	DGP	1.03

NITRATE (AS N)				**MCL**	**M4500-NO3 E**	**Units: mg/L**	
Nitrate (As N)	0.01		0.01	1	10/29/08 8:30	MAT	2843756
SULFATE BY ASTM D516-90				**MCL**	**ASTM D516-90**	**Units: mg/L**	
Sulfate	ND		5	1	10/27/08 7:50	SRA	2840647
TOTAL METALS BY METHOD 200.8				**MCL**	**E200.8**	**Units: ug/L**	
Lead	28.3		1	1	10/31/08 6:23	RJD	2846764

Prep Method	Prep Date	Prep Initials	Prep Factor
E200.8	10/23/2008 17:00	SA	1.00

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-6 **Collected:** 10/22/2008 13:45 **SPL Sample ID:** 08100949-03

Site: PANTRY 585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B			**MCL**	**SW8260B**	**Units: ug/L**		
3,3-Dimethyl-1-butanol	ND		2000	200	10/28/08 18:18	DN	2843492
Diisopropyl ether	2500		1000	200	10/28/08 18:18	DN	2843492
Ethanol	ND		20000	200	10/28/08 18:18	DN	2843492
t-Butyl alcohol	43000		2000	200	10/28/08 18:18	DN	2843492
tert-Amyl alcohol	ND		2000	200	10/28/08 18:18	DN	2843492
tert-Amyl methyl ether	ND		1000	200	10/28/08 18:18	DN	2843492
tert-Butyl ethyl ether	ND		1000	200	10/28/08 18:18	DN	2843492
tert-Butyl formate	ND		200	200	10/28/08 18:18	DN	2843492
1,2-Dichloroethane	ND		1000	200	10/28/08 18:18	DN	2843492
Benzene	26000		1000	200	10/28/08 18:18	DN	2843492
Ethylbenzene	3100		1000	200	10/28/08 18:18	DN	2843492
Methyl tert-butyl ether	55000		1000	200	10/28/08 18:18	DN	2843492
Naphthalene	ND		1000	200	10/28/08 18:18	DN	2843492
Toluene	41000		1000	200	10/28/08 18:18	DN	2843492
m,p-Xylene	11000		1000	200	10/28/08 18:18	DN	2843492
o-Xylene	5000		1000	200	10/28/08 18:18	DN	2843492
Xylenes,Total	16000		1000	200	10/28/08 18:18	DN	2843492
Surr: 1,2-Dichloroethane-d4	77.4		% 74-133	200	10/28/08 18:18	DN	2843492
Surr: 4-Bromofluorobenzene	101		% 74-116	200	10/28/08 18:18	DN	2843492
Surr: Toluene-d8	99.7		% 84-112	200	10/28/08 18:18	DN	2843492

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
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Client Sample ID: MW-10 **Collected:** 10/22/2008 13:30 **SPL Sample ID:** 08100949-04

Site: PANTRY 585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
IRON, FERROUS				**MCL**	**HACH 8146**	**Units: mg/L**	
Iron, Ferrous	ND		0.05	1	10/23/08 12:15	KDS	2840463
METHOD 504.1				**MCL**	**E504.1**	**Units: ug/L**	
1,2-Dibromoethane	0.53		0.021	1	10/31/08 20:12	MAR	2848494
Surr: 1-Chloro-2-fluorobenzene	59.9		% 33-151	1	10/31/08 20:12	MAR	2848494

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	10/27/2008 9:49	DGP	1.04

NITRATE (AS N)				**MCL**	**M4500-NO3 E**	**Units: mg/L**	
Nitrate (As N)	0.112		0.01	1	10/29/08 8:30	MAT	2843757
SULFATE BY ASTM D516-90				**MCL**	**ASTM D516-90**	**Units: mg/L**	
Sulfate	48.4		10	2	10/27/08 7:50	SRA	2840648
TOTAL METALS BY METHOD 200.8				**MCL**	**E200.8**	**Units: ug/L**	
Lead	5.58		1	1	10/31/08 6:27	RJD	2846765

Prep Method	Prep Date	Prep Initials	Prep Factor
E200.8	10/23/2008 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**	
3,3-Dimethyl-1-butanol	ND		500	50	10/28/08 18:48	DN	2843494
Diisopropyl ether	ND		250	50	10/28/08 18:48	DN	2843494
Ethanol	ND		5000	50	10/28/08 18:48	DN	2843494
t-Butyl alcohol	ND		500	50	10/28/08 18:48	DN	2843494
tert-Amyl alcohol	ND		500	50	10/28/08 18:48	DN	2843494
tert-Amyl methyl ether	ND		250	50	10/28/08 18:48	DN	2843494
tert-Butyl ethyl ether	ND		250	50	10/28/08 18:48	DN	2843494
tert-Butyl formate	ND		50	50	10/28/08 18:48	DN	2843494
1,2-Dichloroethane	ND		250	50	10/28/08 18:48	DN	2843494
Benzene	1800		250	50	10/28/08 18:48	DN	2843494
Ethylbenzene	1200		250	50	10/28/08 18:48	DN	2843494
Methyl tert-butyl ether	ND		250	50	10/28/08 18:48	DN	2843494
Naphthalene	390		250	50	10/28/08 18:48	DN	2843494
Toluene	6500		250	50	10/28/08 18:48	DN	2843494
m,p-Xylene	4200		250	50	10/28/08 18:48	DN	2843494
o-Xylene	1800		250	50	10/28/08 18:48	DN	2843494
Xylenes,Total	6000		250	50	10/28/08 18:48	DN	2843494
Surr: 1,2-Dichloroethane-d4	74.7		% 74-133	50	10/28/08 18:48	DN	2843494
Surr: 4-Bromofluorobenzene	102		% 74-116	50	10/28/08 18:48	DN	2843494
Surr: Toluene-d8	98.8		% 84-112	50	10/28/08 18:48	DN	2843494

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-11 **Collected:** 10/22/2008 13:15 **SPL Sample ID:** 08100949-05

Site: PANTRY 585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
IRON, FERROUS				**MCL**	**HACH 8146**	**Units: mg/L**	
Iron, Ferrous	ND		0.05	1	10/23/08 12:15	KDS	2840464
METHOD 504.1				**MCL**	**E504.1**	**Units: ug/L**	
1,2-Dibromoethane	0.29		0.021	1	10/31/08 20:51	MAR	2848496
Surr: 1-Chloro-2-fluorobenzene	59.3		% 33-151	1	10/31/08 20:51	MAR	2848496

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	10/27/2008 9:49	DGP	1.04

NITRATE (AS N)				**MCL**	**M4500-NO3 E**	**Units: mg/L**	
Nitrate (As N)	ND		0.01	1	10/29/08 8:30	MAT	2843758
SULFATE BY ASTM D516-90				**MCL**	**ASTM D516-90**	**Units: mg/L**	
Sulfate	14.9		5	1	10/27/08 7:50	SRA	2840649
TOTAL METALS BY METHOD 200.8				**MCL**	**E200.8**	**Units: ug/L**	
Lead	10.9		1	1	10/31/08 6:31	RJD	2846766

Prep Method	Prep Date	Prep Initials	Prep Factor
E200.8	10/23/2008 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**	
3,3-Dimethyl-1-butanol	ND		2000	200	10/28/08 19:18	DN	2843497
Diisopropyl ether	1600		1000	200	10/28/08 19:18	DN	2843497
Ethanol	ND		20000	200	10/28/08 19:18	DN	2843497
t-Butyl alcohol	3300		2000	200	10/28/08 19:18	DN	2843497
tert-Amyl alcohol	ND		2000	200	10/28/08 19:18	DN	2843497
tert-Amyl methyl ether	ND		1000	200	10/28/08 19:18	DN	2843497
tert-Butyl ethyl ether	ND		1000	200	10/28/08 19:18	DN	2843497
tert-Butyl formate	ND		200	200	10/28/08 19:18	DN	2843497
1,2-Dichloroethane	ND		1000	200	10/28/08 19:18	DN	2843497
Benzene	26000		1000	200	10/28/08 19:18	DN	2843497
Ethylbenzene	3800		1000	200	10/28/08 19:18	DN	2843497
Methyl tert-butyl ether	3200		1000	200	10/28/08 19:18	DN	2843497
Naphthalene	1200		1000	200	10/28/08 19:18	DN	2843497
Toluene	49000		1000	200	10/28/08 19:18	DN	2843497
m,p-Xylene	14000		1000	200	10/28/08 19:18	DN	2843497
o-Xylene	6400		1000	200	10/28/08 19:18	DN	2843497
Xylenes,Total	20400		1000	200	10/28/08 19:18	DN	2843497
Surr: 1,2-Dichloroethane-d4	77.6		% 74-133	200	10/28/08 19:18	DN	2843497
Surr: 4-Bromofluorobenzene	98.9		% 74-116	200	10/28/08 19:18	DN	2843497
Surr: Toluene-d8	100		% 84-112	200	10/28/08 19:18	DN	2843497

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-13 **Collected:** 10/22/2008 12:00 **SPL Sample ID:** 08100949-06

Site: PANTRY 585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
IRON, FERROUS				**MCL**	**HACH 8146**	**Units: mg/L**	
Iron, Ferrous	21.6		1.25	25	10/23/08 12:15	KDS	2840470
METHOD 504.1				**MCL**	**E504.1**	**Units: ug/L**	
1,2-Dibromoethane	ND		0.021	1	10/31/08 21:11	MAR	2848497
Surr: 1-Chloro-2-fluorobenzene	85.7	%	33-151	1	10/31/08 21:11	MAR	2848497

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	10/27/2008 9:49	DGP	1.03

NITRATE (AS N)				**MCL**	**M4500-NO3 E**	**Units: mg/L**	
Nitrate (As N)	0.018		0.01	1	10/29/08 8:30	MAT	2843759
SULFATE BY ASTM D516-90				**MCL**	**ASTM D516-90**	**Units: mg/L**	
Sulfate	ND		5	1	10/27/08 7:50	SRA	2840650
TOTAL METALS BY METHOD 200.8				**MCL**	**E200.8**	**Units: ug/L**	
Lead	16.4		1	1	10/31/08 6:36	RJD	2846767

Prep Method	Prep Date	Prep Initials	Prep Factor
E200.8	10/23/2008 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**	
3,3-Dimethyl-1-butanol	ND		200	20	10/28/08 19:48	DN	2843499
Diisopropyl ether	ND		100	20	10/28/08 19:48	DN	2843499
Ethanol	ND		2000	20	10/28/08 19:48	DN	2843499
t-Butyl alcohol	ND		200	20	10/28/08 19:48	DN	2843499
tert-Amyl alcohol	ND		200	20	10/28/08 19:48	DN	2843499
tert-Amyl methyl ether	ND		100	20	10/28/08 19:48	DN	2843499
tert-Butyl ethyl ether	ND		100	20	10/28/08 19:48	DN	2843499
tert-Butyl formate	ND		20	20	10/28/08 19:48	DN	2843499
1,2-Dichloroethane	ND		100	20	10/28/08 19:48	DN	2843499
Benzene	6000		100	20	10/28/08 19:48	DN	2843499
Ethylbenzene	1600		100	20	10/28/08 19:48	DN	2843499
Methyl tert-butyl ether	ND		100	20	10/28/08 19:48	DN	2843499
Naphthalene	510		100	20	10/28/08 19:48	DN	2843499
Toluene	5000		100	20	10/28/08 19:48	DN	2843499
m,p-Xylene	2100		100	20	10/28/08 19:48	DN	2843499
o-Xylene	1100		100	20	10/28/08 19:48	DN	2843499
Xylenes,Total	3200		100	20	10/28/08 19:48	DN	2843499
Surr: 1,2-Dichloroethane-d4	77.3	%	74-133	20	10/28/08 19:48	DN	2843499
Surr: 4-Bromofluorobenzene	100	%	74-116	20	10/28/08 19:48	DN	2843499
Surr: Toluene-d8	101	%	84-112	20	10/28/08 19:48	DN	2843499

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
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SCOTT, LA 70583
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Client Sample ID: MW-25 **Collected:** 10/22/2008 13:00 **SPL Sample ID:** 08100949-07

Site: PANTRY 585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
IRON, FERROUS				**MCL**	**HACH 8146**	**Units: mg/L**	
Iron, Ferrous	ND		0.05	1	10/23/08 12:15	KDS	2840780
METHOD 504.1				**MCL**	**E504.1**	**Units: ug/L**	
1,2-Dibromoethane	ND		0.021	1	10/31/08 21:31	MAR	2848498
Surr: 1-Chloro-2-fluorobenzene	82.9		% 33-151	1	10/31/08 21:31	MAR	2848498

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	10/27/2008 9:49	DGP	1.03

NITRATE (AS N)				**MCL**	**M4500-NO3 E**	**Units: mg/L**	
Nitrate (As N)	0.186		0.01	1	10/29/08 8:30	MAT	2843762
SULFATE BY ASTM D516-90				**MCL**	**ASTM D516-90**	**Units: mg/L**	
Sulfate	ND		5	1	10/27/08 7:50	SRA	2840653
TOTAL METALS BY METHOD 200.8				**MCL**	**E200.8**	**Units: ug/L**	
Lead	4.07		1	1	10/31/08 6:40	RJD	2846768

Prep Method	Prep Date	Prep Initials	Prep Factor
E200.8	10/23/2008 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**	
3,3-Dimethyl-1-butanol	ND		10	1	10/27/08 13:15	DN	2842265
Diisopropyl ether	ND		5	1	10/27/08 13:15	DN	2842265
Ethanol	ND		100	1	10/27/08 13:15	DN	2842265
t-Butyl alcohol	ND		10	1	10/27/08 13:15	DN	2842265
tert-Amyl alcohol	ND		10	1	10/27/08 13:15	DN	2842265
tert-Amyl methyl ether	ND		5	1	10/27/08 13:15	DN	2842265
tert-Butyl ethyl ether	ND		5	1	10/27/08 13:15	DN	2842265
tert-Butyl formate	ND		1	1	10/27/08 13:15	DN	2842265
1,2-Dichloroethane	ND		5	1	10/27/08 13:15	DN	2842265
Benzene	60		5	1	10/27/08 13:15	DN	2842265
Ethylbenzene	160		5	1	10/27/08 13:15	DN	2842265
Methyl tert-butyl ether	ND		5	1	10/27/08 13:15	DN	2842265
Naphthalene	59		5	1	10/27/08 13:15	DN	2842265
Toluene	270		5	1	10/27/08 13:15	DN	2842265
m,p-Xylene	580		5	1	10/27/08 13:15	DN	2842265
o-Xylene	340		5	1	10/27/08 13:15	DN	2842265
Xylenes,Total	920		5	1	10/27/08 13:15	DN	2842265
Surr: 1,2-Dichloroethane-d4	81.7		% 74-133	1	10/27/08 13:15	DN	2842265
Surr: 4-Bromofluorobenzene	100		% 74-116	1	10/27/08 13:15	DN	2842265
Surr: Toluene-d8	101		% 84-112	1	10/27/08 13:15	DN	2842265

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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Client Sample ID: MW-14 **Collected:** 10/22/2008 11:00 **SPL Sample ID:** 08100949-08

Site: PANTRY 585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
IRON, FERROUS				**MCL**	**HACH 8146**	**Units: mg/L**	
Iron, Ferrous	ND		0.05	1	10/23/08 12:15	KDS	2840777
METHOD 504.1				**MCL**	**E504.1**	**Units: ug/L**	
1,2-Dibromoethane	ND		0.021	1	10/31/08 21:50	MAR	2848499
Surr: 1-Chloro-2-fluorobenzene	92.5	%	33-151	1	10/31/08 21:50	MAR	2848499

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	10/27/2008 9:49	DGP	1.04

NITRATE (AS N)				**MCL**	**M4500-NO3 E**	**Units: mg/L**	
Nitrate (As N)	0.626		0.05	5	10/29/08 8:30	MAT	2843763
SULFATE BY ASTM D516-90				**MCL**	**ASTM D516-90**	**Units: mg/L**	
Sulfate	ND		5	1	10/27/08 7:50	SRA	2840654
TOTAL METALS BY METHOD 200.8				**MCL**	**E200.8**	**Units: ug/L**	
Lead	3.17		1	1	10/31/08 6:44	RJD	2846769

Prep Method	Prep Date	Prep Initials	Prep Factor
E200.8	10/23/2008 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**	
3,3-Dimethyl-1-butanol	ND		10	1	10/27/08 13:46	DN	2842266
Diisopropyl ether	ND		5	1	10/27/08 13:46	DN	2842266
Ethanol	ND		100	1	10/27/08 13:46	DN	2842266
t-Butyl alcohol	ND		10	1	10/27/08 13:46	DN	2842266
tert-Amyl alcohol	ND		10	1	10/27/08 13:46	DN	2842266
tert-Amyl methyl ether	ND		5	1	10/27/08 13:46	DN	2842266
tert-Butyl ethyl ether	ND		5	1	10/27/08 13:46	DN	2842266
tert-Butyl formate	ND		1	1	10/27/08 13:46	DN	2842266
1,2-Dichloroethane	ND		5	1	10/27/08 13:46	DN	2842266
Benzene	ND		5	1	10/27/08 13:46	DN	2842266
Ethylbenzene	ND		5	1	10/27/08 13:46	DN	2842266
Methyl tert-butyl ether	ND		5	1	10/27/08 13:46	DN	2842266
Naphthalene	ND		5	1	10/27/08 13:46	DN	2842266
Toluene	ND		5	1	10/27/08 13:46	DN	2842266
m,p-Xylene	9.2		5	1	10/27/08 13:46	DN	2842266
o-Xylene	ND		5	1	10/27/08 13:46	DN	2842266
Xylenes,Total	9.2		5	1	10/27/08 13:46	DN	2842266
Surr: 1,2-Dichloroethane-d4	82.4	%	74-133	1	10/27/08 13:46	DN	2842266
Surr: 4-Bromofluorobenzene	103	%	74-116	1	10/27/08 13:46	DN	2842266
Surr: Toluene-d8	99.4	%	84-112	1	10/27/08 13:46	DN	2842266

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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Client Sample ID: MW-15 **Collected:** 10/22/2008 11:15 **SPL Sample ID:** 08100949-09

Site: PANTRY 585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
IRON, FERROUS				**MCL**	**HACH 8146**	**Units: mg/L**	
Iron, Ferrous	ND		0.05	1	10/23/08 12:15	KDS	2840465
METHOD 504.1				**MCL**	**E504.1**	**Units: ug/L**	
1,2-Dibromoethane	ND		0.021	1	10/31/08 22:10	MAR	2848500
Surr: 1-Chloro-2-fluorobenzene	105		% 33-151	1	10/31/08 22:10	MAR	2848500

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	10/27/2008 9:49	DGP	1.04

NITRATE (AS N)				**MCL**	**M4500-NO3 E**	**Units: mg/L**	
Nitrate (As N)	0.089		0.01	1	10/29/08 8:30	MAT	2843764
SULFATE BY ASTM D516-90				**MCL**	**ASTM D516-90**	**Units: mg/L**	
Sulfate	ND		5	1	10/27/08 7:50	SRA	2840655
TOTAL METALS BY METHOD 200.8				**MCL**	**E200.8**	**Units: ug/L**	
Lead	3.77		1	1	10/31/08 6:48	RJD	2846770

Prep Method	Prep Date	Prep Initials	Prep Factor
E200.8	10/23/2008 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**	
3,3-Dimethyl-1-butanol	ND		10	1	10/27/08 14:16	DN	2842267
Diisopropyl ether	ND		5	1	10/27/08 14:16	DN	2842267
Ethanol	ND		100	1	10/27/08 14:16	DN	2842267
t-Butyl alcohol	ND		10	1	10/27/08 14:16	DN	2842267
tert-Amyl alcohol	ND		10	1	10/27/08 14:16	DN	2842267
tert-Amyl methyl ether	ND		5	1	10/27/08 14:16	DN	2842267
tert-Butyl ethyl ether	ND		5	1	10/27/08 14:16	DN	2842267
tert-Butyl formate	ND		1	1	10/27/08 14:16	DN	2842267
1,2-Dichloroethane	ND		5	1	10/27/08 14:16	DN	2842267
Benzene	ND		5	1	10/27/08 14:16	DN	2842267
Ethylbenzene	ND		5	1	10/27/08 14:16	DN	2842267
Methyl tert-butyl ether	ND		5	1	10/27/08 14:16	DN	2842267
Naphthalene	ND		5	1	10/27/08 14:16	DN	2842267
Toluene	ND		5	1	10/27/08 14:16	DN	2842267
m,p-Xylene	ND		5	1	10/27/08 14:16	DN	2842267
o-Xylene	ND		5	1	10/27/08 14:16	DN	2842267
Xylenes,Total	ND		5	1	10/27/08 14:16	DN	2842267
Surr: 1,2-Dichloroethane-d4	84.4		% 74-133	1	10/27/08 14:16	DN	2842267
Surr: 4-Bromofluorobenzene	101		% 74-116	1	10/27/08 14:16	DN	2842267
Surr: Toluene-d8	98.6		% 84-112	1	10/27/08 14:16	DN	2842267

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
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Client Sample ID: KMO-17 **Collected:** 10/22/2008 11:45 **SPL Sample ID:** 08100949-10

Site: **PANTRY 585**

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
IRON, FERROUS				**MCL**	**HACH 8146**	**Units: mg/L**	
Iron, Ferrous	ND		0.05	1	10/23/08 12:15	KDS	2840471
METHOD 504.1				**MCL**	**E504.1**	**Units: ug/L**	
1,2-Dibromoethane	ND		0.021	1	10/31/08 22:29	MAR	2848501
Surr: 1-Chloro-2-fluorobenzene	98.6		% 33-151	1	10/31/08 22:29	MAR	2848501

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	10/27/2008 9:49	DGP	1.05

NITRATE (AS N)				**MCL**	**M4500-NO3 E**	**Units: mg/L**	
Nitrate (As N)	0.426		0.05	5	10/29/08 8:30	MAT	2843765
SULFATE BY ASTM D516-90				**MCL**	**ASTM D516-90**	**Units: mg/L**	
Sulfate	ND		5	1	10/27/08 7:50	SRA	2840656
TOTAL METALS BY METHOD 200.8				**MCL**	**E200.8**	**Units: ug/L**	
Lead	2.42		1	1	10/31/08 6:53	RJD	2846771

Prep Method	Prep Date	Prep Initials	Prep Factor
E200.8	10/23/2008 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**	
3,3-Dimethyl-1-butanol	ND		10	1	10/27/08 14:46	DN	2842268
Diisopropyl ether	ND		5	1	10/27/08 14:46	DN	2842268
Ethanol	ND		100	1	10/27/08 14:46	DN	2842268
t-Butyl alcohol	ND		10	1	10/27/08 14:46	DN	2842268
tert-Amyl alcohol	ND		10	1	10/27/08 14:46	DN	2842268
tert-Amyl methyl ether	ND		5	1	10/27/08 14:46	DN	2842268
tert-Butyl ethyl ether	ND		5	1	10/27/08 14:46	DN	2842268
tert-Butyl formate	ND		1	1	10/27/08 14:46	DN	2842268
1,2-Dichloroethane	ND		5	1	10/27/08 14:46	DN	2842268
Benzene	ND		5	1	10/27/08 14:46	DN	2842268
Ethylbenzene	ND		5	1	10/27/08 14:46	DN	2842268
Methyl tert-butyl ether	ND		5	1	10/27/08 14:46	DN	2842268
Naphthalene	ND		5	1	10/27/08 14:46	DN	2842268
Toluene	ND		5	1	10/27/08 14:46	DN	2842268
m,p-Xylene	ND		5	1	10/27/08 14:46	DN	2842268
o-Xylene	ND		5	1	10/27/08 14:46	DN	2842268
Xylenes,Total	ND		5	1	10/27/08 14:46	DN	2842268
Surr: 1,2-Dichloroethane-d4	83.1		% 74-133	1	10/27/08 14:46	DN	2842268
Surr: 4-Bromofluorobenzene	98.0		% 74-116	1	10/27/08 14:46	DN	2842268
Surr: Toluene-d8	97.0		% 84-112	1	10/27/08 14:46	DN	2842268

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: KMO-18 **Collected:** 10/22/2008 11:30 **SPL Sample ID:** 08100949-11

Site: PANTRY 585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
IRON, FERROUS				**MCL**	**HACH 8146**	**Units: mg/L**	
Iron, Ferrous	1.88		0.05	1	10/23/08 12:15	KDS	2840467
METHOD 504.1				**MCL**	**E504.1**	**Units: ug/L**	
1,2-Dibromoethane	ND		0.02	1	10/31/08 22:49	MAR	2848502
Surr: 1-Chloro-2-fluorobenzene	85.8		% 33-151	1	10/31/08 22:49	MAR	2848502

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	10/27/2008 9:49	DGP	1.02

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
NITRATE (AS N)				**MCL**	**M4500-NO3 E**	**Units: mg/L**	
Nitrate (As N)	0.03		0.01	1	10/29/08 13:30	MAT	2844021
SULFATE BY ASTM D516-90				**MCL**	**ASTM D516-90**	**Units: mg/L**	
Sulfate	21.5		5	1	10/27/08 8:45	SRA	2840674
TOTAL METALS BY METHOD 200.8				**MCL**	**E200.8**	**Units: ug/L**	
Lead	ND		1	1	10/30/08 14:30	RJD	2845659

Prep Method	Prep Date	Prep Initials	Prep Factor
E200.8	10/23/2008 17:00	SA	1.00

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**	
3,3-Dimethyl-1-butanol	ND		10	1	10/27/08 15:16	DN	2842269
Diisopropyl ether	13		5	1	10/27/08 15:16	DN	2842269
Ethanol	ND		100	1	10/27/08 15:16	DN	2842269
t-Butyl alcohol	22		10	1	10/27/08 15:16	DN	2842269
tert-Amyl alcohol	200		10	1	10/27/08 15:16	DN	2842269
tert-Amyl methyl ether	ND		5	1	10/27/08 15:16	DN	2842269
tert-Butyl ethyl ether	ND		5	1	10/27/08 15:16	DN	2842269
tert-Butyl formate	ND		1	1	10/27/08 15:16	DN	2842269
1,2-Dichloroethane	ND		5	1	10/27/08 15:16	DN	2842269
Benzene	ND		5	1	10/27/08 15:16	DN	2842269
Ethylbenzene	ND		5	1	10/27/08 15:16	DN	2842269
Methyl tert-butyl ether	ND		5	1	10/27/08 15:16	DN	2842269
Naphthalene	ND		5	1	10/27/08 15:16	DN	2842269
Toluene	ND		5	1	10/27/08 15:16	DN	2842269
m,p-Xylene	ND		5	1	10/27/08 15:16	DN	2842269
o-Xylene	ND		5	1	10/27/08 15:16	DN	2842269
Xylenes,Total	ND		5	1	10/27/08 15:16	DN	2842269
Surr: 1,2-Dichloroethane-d4	85.1		% 74-133	1	10/27/08 15:16	DN	2842269
Surr: 4-Bromofluorobenzene	98.8		% 74-116	1	10/27/08 15:16	DN	2842269
Surr: Toluene-d8	98.9		% 84-112	1	10/27/08 15:16	DN	2842269

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-17 **Collected:** 10/22/2008 12:45 **SPL Sample ID:** 08100949-12

Site: PANTRY 585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
IRON, FERROUS				**MCL**	**HACH 8146**	**Units: mg/L**	
Iron, Ferrous	ND		0.05	1	10/23/08 12:15	KDS	2840466
METHOD 504.1				**MCL**	**E504.1**	**Units: ug/L**	
1,2-Dibromoethane	0.13		0.02	1	10/31/08 23:08	MAR	2848503
Surr: 1-Chloro-2-fluorobenzene	66.5		% 33-151	1	10/31/08 23:08	MAR	2848503

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	10/27/2008 9:49	DGP	1.02

NITRATE (AS N)				**MCL**	**M4500-NO3 E**	**Units: mg/L**	
Nitrate (As N)	ND		0.01	1	10/29/08 13:30	MAT	2844022
SULFATE BY ASTM D516-90				**MCL**	**ASTM D516-90**	**Units: mg/L**	
Sulfate	11.3		5	1	10/27/08 8:45	SRA	2840671
TOTAL METALS BY METHOD 200.8				**MCL**	**E200.8**	**Units: ug/L**	
Lead	37.5		1	1	10/30/08 15:11	RJD	2845668

Prep Method	Prep Date	Prep Initials	Prep Factor
E200.8	10/23/2008 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**	
3,3-Dimethyl-1-butanol	ND		2000	200	10/28/08 20:18	DN	2843742
Diisopropyl ether	ND		1000	200	10/28/08 20:18	DN	2843742
Ethanol	ND		20000	200	10/28/08 20:18	DN	2843742
t-Butyl alcohol	ND		2000	200	10/28/08 20:18	DN	2843742
tert-Amyl alcohol	ND		2000	200	10/28/08 20:18	DN	2843742
tert-Amyl methyl ether	ND		1000	200	10/28/08 20:18	DN	2843742
tert-Butyl ethyl ether	ND		1000	200	10/28/08 20:18	DN	2843742
tert-Butyl formate	ND		200	200	10/28/08 20:18	DN	2843742
1,2-Dichloroethane	ND		1000	200	10/28/08 20:18	DN	2843742
Benzene	16000		1000	200	10/28/08 20:18	DN	2843742
Ethylbenzene	9200		1000	200	10/28/08 20:18	DN	2843742
Methyl tert-butyl ether	ND		1000	200	10/28/08 20:18	DN	2843742
Naphthalene	4600		1000	200	10/28/08 20:18	DN	2843742
Toluene	63000		1000	200	10/28/08 20:18	DN	2843742
m,p-Xylene	36000		1000	200	10/28/08 20:18	DN	2843742
o-Xylene	15000		1000	200	10/28/08 20:18	DN	2843742
Xylenes,Total	51000		1000	200	10/28/08 20:18	DN	2843742
Surr: 1,2-Dichloroethane-d4	77.5		% 74-133	200	10/28/08 20:18	DN	2843742
Surr: 4-Bromofluorobenzene	101		% 74-116	200	10/28/08 20:18	DN	2843742
Surr: Toluene-d8	99.2		% 84-112	200	10/28/08 20:18	DN	2843742

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

Quality Control Documentation

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

ANDERSON, SC

Analysis: METHOD 504.1 **WorkOrder:** 08100949
Method: E504.1 **Lab Batch ID:** 74386

Method Blank

RunID: PCBB_081031A-2848485 Units: ug/L
Analysis Date: 10/31/2008 16:49 Analyst: MAR
Preparation Date: 10/27/2008 9:49 Prep By: DGP Method: E504

Analyte	Result	Rep Limit
1,2-Dibromoethane	ND	0.020
Surr: 1-Chloro-2-fluorobenzene	105.5	33-151

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08100949-01B	MW-2
08100949-02B	MW-3
08100949-03B	MW-6
08100949-04B	MW-10
08100949-05B	MW-11
08100949-06B	MW-13
08100949-07B	MW-25
08100949-08B	MW-14
08100949-09B	MW-15
08100949-10B	KMO-17
08100949-11B	KMO-18
08100949-12B	MW-17

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: PCBB_081031A-2848486 Units: ug/L
Analysis Date: 10/31/2008 17:08 Analyst: MAR
Preparation Date: 10/27/2008 9:49 Prep By: DGP Method: E504

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1,2-Dibromoethane	0.570	0.539	94.6	0.570	0.565	99.1	4.7	30	60	140
Surr: 1-Chloro-2-fluorobenzene	143	137	95.8	143	139	97.3	1.6	30	33	151

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

LAFAYETTE LABORATORY
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Quality Control Report

ATC ASSOCIATES, INC.

ANDERSON, SC

Analysis: Total Metals by Method 200.8 **WorkOrder:** 08100949
Method: E200.8 **Lab Batch ID:** 74327-I

Method Blank

RunID: ICPMS_081030E-2846753 Units: ug/L
Analysis Date: 10/31/2008 5:34 Analyst: RJD
Preparation Date: 10/23/2008 17:00 Prep By: SA Method: E200.8

Analyte	Result	Rep Limit
Lead	ND	1

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08100949-01D	MW-2
08100949-02D	MW-3
08100949-03D	MW-6
08100949-04D	MW-10
08100949-05D	MW-11
08100949-06D	MW-13
08100949-07D	MW-25
08100949-08D	MW-14
08100949-09D	MW-15
08100949-10D	KMO-17

Laboratory Control Sample (LCS)

RunID: ICPMS_081030E-2846754 Units: ug/L
Analysis Date: 10/31/2008 5:38 Analyst: RJD
Preparation Date: 10/23/2008 17:00 Prep By: SA Method: E200.8

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Lead	100.0	104.7	104.7	85	115

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08100949-01
RunID: ICPMS_081030E-2846757 Units: ug/L
Analysis Date: 10/31/2008 5:51 Analyst: RJD
Preparation Date: 10/23/2008 17:00 Prep By: SA Method: E200.8

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Lead	1.469	100	109.5	108.0	100	109.2	107.7	0.3166	20	70	130

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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Quality Control Report

ATC ASSOCIATES, INC.

ANDERSON, SC

Analysis: Total Metals by Method 200.8 | **WorkOrder:** 08100949
Method: E200.8 | **Lab Batch ID:** 74328-I

Method Blank

RunID: ICPMS_081030A-2845657 Units: ug/L
Analysis Date: 10/30/2008 14:22 Analyst: RJD
Preparation Date: 10/23/2008 17:00 Prep By: SA Method: E200.8

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08100949-11D	KMO-18
08100949-12D	MW-17

Analyte	Result	Rep Limit
Lead	ND	1

Laboratory Control Sample (LCS)

RunID: ICPMS_081030A-2845658 Units: ug/L
Analysis Date: 10/30/2008 14:26 Analyst: RJD
Preparation Date: 10/23/2008 17:00 Prep By: SA Method: E200.8

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Lead	100.0	107.5	107.5	85	115

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08100949-11
RunID: ICPMS_081030A-2845661 Units: ug/L
Analysis Date: 10/30/2008 14:39 Analyst: RJD
Preparation Date: 10/23/2008 17:00 Prep By: SA Method: E200.8

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Lead	ND	100	103.5	103.2	100	107.9	107.6	4.135	20	70	130

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

ATC ASSOCIATES, INC.

ANDERSON, SC

Analysis: Volatile Organics:Method 8260B
Method: SW8260B

WorkOrder: 08100949
Lab Batch ID: R190922

Method Blank

RunID: QB_081024A-2839126 Units: ug/L
Analysis Date: 10/24/2008 14:09 Analyst: RP
Preparation Date: 10/24/2008 14:09 Prep By: Method: SW5035

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08100949-01A	MW-2

Analyte	Result	Rep Limit
1,2-Dichloroethane	ND	5.0
3,3-Dimethyl-1-butanol	ND	10
Benzene	ND	5.0
Diisopropyl ether	ND	5.0
Ethanol	ND	100
Ethylbenzene	ND	5.0
Methyl tert-butyl ether	ND	5.0
Naphthalene	ND	5.0
t-Butyl alcohol	ND	10
tert-Amyl alcohol	ND	10
tert-Amyl methyl ether	ND	5.0
tert-Butyl ethyl ether	ND	5.0
tert-Butyl formate	ND	1.0
Toluene	ND	5.0
m,p-Xylene	ND	5.0
o-Xylene	ND	5.0
Xylenes,Total	ND	5.0
Surr: 1,2-Dichloroethane-d4	81.2	74-133
Surr: 4-Bromofluorobenzene	98.2	74-116
Surr: Toluene-d8	100.0	84-112

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: QB_081024A-2839124 Units: ug/L
Analysis Date: 10/24/2008 12:38 Analyst: RP

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1,2-Dichloroethane	50.0	38.1	76.1	50.0	39.4	78.9	3.6	21	73	134
3,3-Dimethyl-1-butanol	500	455	91.0	500	449	89.8	1.3	47	45	122
Benzene	50.0	50.4	101	50.0	50.3	101	0.1	23	79	124
Diisopropyl ether	50.0	45.1	90.2	50.0	45.3	90.6	0.5	21	79	127
Ethanol	1000	686	68.6	1000	731	73.1	6.3	66	46	175
Ethylbenzene	50.0	56.6	113	50.0	55.6	111	1.8	16	79	125
Methyl tert-butyl ether	50.0	46.3	92.6	50.0	46.5	92.9	0.4	23	77	125
Naphthalene	50.0	53.1	106	50.0	54.6	109	2.8	27	72	132
t-Butyl alcohol	500	379	75.9	500	403	80.6	6.0	54	11	154

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

ATC ASSOCIATES, INC.

ANDERSON, SC

Analysis: Volatile Organics:Method 8260B
Method: SW8260B
WorkOrder: 08100949
Lab Batch ID: R190922

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: QB_081024A-2839124 Units: ug/L
Analysis Date: 10/24/2008 12:38 Analyst: RP

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
tert-Amyl alcohol	500	415	82.9	500	427	85.3	2.8	47	44	141
tert-Amyl methyl ether	50.0	45.8	91.6	50.0	46.1	92.3	0.8	21	73	123
tert-Butyl ethyl ether	50.0	46.1	92.2	50.0	46.1	92.2	0.0	24	75	125
tert-Butyl formate	50.0	44.8	89.5	50.0	44.4	88.8	0.8	34	38	172
Toluene	50.0	57.7	115	50.0	55.9	112	3.1	21	79	124
m,p-Xylene	100	116	116	100	116	116	0.2	20	77	132
o-Xylene	50.0	55.8	112	50.0	55.8	112	0.0	17	76	127
Xylenes,Total	150.0	171.8	114.3	150.0	171.8	114.2	0.1	20	76	130
Surr: 1,2-Dichloroethane-d4	50.0	40.1	80.3	50.0	41.3	82.7	2.9	30	74	133
Surr: 4-Bromofluorobenzene	50.0	49.0	97.9	50.0	50.0	100	2.2	30	74	116
Surr: Toluene-d8	50.0	48.9	97.8	50.0	49.3	98.7	0.9	30	84	112

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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Quality Control Report

ATC ASSOCIATES, INC.

ANDERSON, SC

Analysis: Volatile Organics:Method 8260B
Method: SW8260B

WorkOrder: 08100949
Lab Batch ID: R191102

Method Blank

RunID: QB_081027A-2842263 Units: ug/L
Analysis Date: 10/27/2008 12:15 Analyst: DN
Preparation Date: 10/27/2008 12:15 Prep By: Method: SW5035

Analyte	Result	Rep Limit
1,2-Dichloroethane	ND	5.0
3,3-Dimethyl-1-butanol	ND	10
Benzene	ND	5.0
Diisopropyl ether	ND	5.0
Ethanol	ND	100
Ethylbenzene	ND	5.0
Methyl tert-butyl ether	ND	5.0
Naphthalene	ND	5.0
t-Butyl alcohol	ND	10
tert-Amyl alcohol	ND	10
tert-Amyl methyl ether	ND	5.0
tert-Butyl ethyl ether	ND	5.0
tert-Butyl formate	ND	1.0
Toluene	ND	5.0
m,p-Xylene	ND	5.0
o-Xylene	ND	5.0
Xylenes,Total	ND	5.0
Surr: 1,2-Dichloroethane-d4	81.1	74-133
Surr: 4-Bromofluorobenzene	98.9	74-116
Surr: Toluene-d8	98.7	84-112

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08100949-02A	MW-3
08100949-07A	MW-25
08100949-08A	MW-14
08100949-09A	MW-15
08100949-10A	KMO-17
08100949-11A	KMO-18

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: QB_081027A-2842261 Units: ug/L
Analysis Date: 10/27/2008 10:45 Analyst: DN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1,2-Dichloroethane	50.0	37.8	75.6	50.0	39.5	78.9	4.2	21	73	134
3,3-Dimethyl-1-butanol	500	392	78.3	500	425	85.0	8.1	47	45	122
Benzene	50.0	51.1	102	50.0	52.5	105	2.9	23	79	124
Diisopropyl ether	50.0	45.6	91.2	50.0	47.2	94.4	3.5	21	79	127
Ethanol	1000	700	70.0	1000	636	63.6	9.7	66	46	175
Ethylbenzene	50.0	54.0	108	50.0	56.5	113	4.4	16	79	125
Methyl tert-butyl ether	50.0	45.3	90.7	50.0	47.7	95.4	5.1	23	77	125
Naphthalene	50.0	51.4	103	50.0	51.3	103	0.2	27	72	132
t-Butyl alcohol	500	357	71.5	500	378	75.6	5.6	54	11	154

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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Quality Control Report

ATC ASSOCIATES, INC.

ANDERSON, SC

Analysis: **Volatile Organics:Method 8260B** **WorkOrder:** **08100949**
Method: **SW8260B** **Lab Batch ID:** **R191102**

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: QB_081027A-2842261 Units: ug/L
Analysis Date: 10/27/2008 10:45 Analyst: DN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
tert-Amyl alcohol	500	348	69.7	500	386	77.2	10.3	47	44	141
tert-Amyl methyl ether	50.0	44.5	88.9	50.0	47.5	95.0	6.6	21	73	123
tert-Butyl ethyl ether	50.0	46.2	92.5	50.0	47.5	95.1	2.7	24	75	125
tert-Butyl formate	50.0	46.5	92.9	50.0	47.8	95.7	2.9	34	38	172
Toluene	50.0	55.3	111	50.0	57.0	114	3.1	21	79	124
m,p-Xylene	100	111	111	100	116	116	4.3	20	77	132
o-Xylene	50.0	54.4	109	50.0	55.9	112	2.8	17	76	127
Xylenes,Total	150.0	165.4	110.2	150.0	171.9	114.5	3.8	20	76	130
Surr: 1,2-Dichloroethane-d4	50.0	41.2	82.3	50.0	41.9	83.7	1.6	30	74	133
Surr: 4-Bromofluorobenzene	50.0	49.2	98.3	50.0	48.6	97.1	1.3	30	74	116
Surr: Toluene-d8	50.0	49.0	98.1	50.0	50.2	100	2.3	30	84	112

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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Quality Control Report

ATC ASSOCIATES, INC.

ANDERSON, SC

Analysis: Volatile Organics:Method 8260B
Method: SW8260B
WorkOrder: 08100949
Lab Batch ID: R191180

Method Blank

RunID: QB_081028B-2843472 Units: ug/L
Analysis Date: 10/28/2008 11:45 Analyst: DN
Preparation Date: 10/28/2008 11:45 Prep By: Method: SW5035

Analyte	Result	Rep Limit
1,2-Dichloroethane	ND	5.0
3,3-Dimethyl-1-butanol	ND	10
Benzene	ND	5.0
Diisopropyl ether	ND	5.0
Ethanol	ND	100
Ethylbenzene	ND	5.0
Methyl tert-butyl ether	ND	5.0
Naphthalene	ND	5.0
t-Butyl alcohol	ND	10
tert-Amyl alcohol	ND	10
tert-Amyl methyl ether	ND	5.0
tert-Butyl ethyl ether	ND	5.0
tert-Butyl formate	ND	1.0
Toluene	ND	5.0
m,p-Xylene	ND	5.0
o-Xylene	ND	5.0
Xylenes,Total	ND	5.0
Surr: 1,2-Dichloroethane-d4	77.1	74-133
Surr: 4-Bromofluorobenzene	101.2	74-116
Surr: Toluene-d8	99.8	84-112

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08100949-03A	MW-6
08100949-04A	MW-10
08100949-05A	MW-11
08100949-06A	MW-13
08100949-12A	MW-17

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: QB_081028B-2843470 Units: ug/L
Analysis Date: 10/28/2008 10:15 Analyst: DN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1,2-Dichloroethane	50.0	36.7	73.4	50.0	37.4	74.8	1.9	21	73	134
3,3-Dimethyl-1-butanol	500	377	75.3	500	402	80.4	6.6	47	45	122
Benzene	50.0	50.6	101	50.0	50.6	101	0.0	23	79	124
Diisopropyl ether	50.0	45.3	90.6	50.0	46.4	92.8	2.4	21	79	127
Ethanol	1000	780	78.0	1000	773	77.3	0.9	66	46	175
Ethylbenzene	50.0	53.9	108	50.0	57.2	114	5.9	16	79	125
Methyl tert-butyl ether	50.0	43.5	87.0	50.0	45.6	91.2	4.7	23	77	125
Naphthalene	50.0	46.6	93.2	50.0	49.3	98.5	5.6	27	72	132
t-Butyl alcohol	500	331	66.2	500	353	70.5	6.2	54	11	154

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

ANDERSON, SC

Analysis: **Volatile Organics:Method 8260B** **WorkOrder:** **08100949**
Method: **SW8260B** **Lab Batch ID:** **R191180**

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: QB_081028B-2843470 Units: ug/L
Analysis Date: 10/28/2008 10:15 Analyst: DN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
tert-Amyl alcohol	500	322	64.3	500	356	71.3	10.3	47	44	141
tert-Amyl methyl ether	50.0	44.2	88.3	50.0	45.4	90.7	2.6	21	73	123
tert-Butyl ethyl ether	50.0	45.3	90.6	50.0	45.7	91.4	0.8	24	75	125
tert-Butyl formate	50.0	43.2	86.4	50.0	42.9	85.7	0.8	34	38	172
Toluene	50.0	54.1	108	50.0	58.8	118	8.2	21	79	124
m,p-Xylene	100	111	111	100	116	116	4.9	20	77	132
o-Xylene	50.0	52.5	105	50.0	56.1	112	6.6	17	76	127
Xylenes,Total	150.0	163.5	108.8	150.0	172.1	114.9	5.4	20	76	130
Surr: 1,2-Dichloroethane-d4	50.0	39.8	79.7	50.0	39.7	79.3	0.5	30	74	133
Surr: 4-Bromofluorobenzene	50.0	49.5	99.1	50.0	50.6	101	2.1	30	74	116
Surr: Toluene-d8	50.0	51.4	103	50.0	48.9	97.7	5.1	30	84	112

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

ANDERSON, SC

Analysis: Iron, Ferrous
Method: HACH 8146

WorkOrder: 08100949
Lab Batch ID: R190998

Method Blank

RunID: WET_081023ZB-2840458 Units: mg/L
Analysis Date: 10/23/2008 12:15 Analyst: KDS
Preparation Date: 12/30/1899 0:00 Prep By: Method:

Analyte	Result	Rep Limit
Iron, Ferrous	ND	0.050

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08100949-01C	MW-2
08100949-02C	MW-3
08100949-03C	MW-6
08100949-04C	MW-10
08100949-05C	MW-11
08100949-06C	MW-13
08100949-09C	MW-15
08100949-10C	KMO-17
08100949-11C	KMO-18
08100949-12C	MW-17

Laboratory Control Sample (LCS)

RunID: WET_081023ZB-2840459 Units: mg/L
Analysis Date: 10/23/2008 12:15 Analyst: KDS
Preparation Date: 12/30/1899 22:14 Prep By: Method:

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Iron, Ferrous	1.000	0.9270	92.70	80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08100949-03
RunID: WET_081023ZB-2840461 Units: mg/L
Analysis Date: 10/23/2008 12:15 Analyst: KDS

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Iron, Ferrous	8.810	25	31.40	90.36	25	32.74	95.72	4.178	20	80	120

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

ATC ASSOCIATES, INC.

ANDERSON, SC

Analysis: Sulfate by ASTM D516-90 **WorkOrder:** 08100949
Method: ASTM D516-90 **Lab Batch ID:** R191007

Method Blank

RunID: WET_081027B-2840641 Units: mg/L
Analysis Date: 10/27/2008 7:50 Analyst: SRA

Analyte	Result	Rep Limit
Sulfate	ND	5.0

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08100949-01C	MW-2
08100949-02C	MW-3
08100949-03C	MW-6
08100949-04C	MW-10
08100949-05C	MW-11
08100949-06C	MW-13
08100949-07C	MW-25
08100949-08C	MW-14
08100949-09C	MW-15
08100949-10C	KMO-17

Laboratory Control Sample (LCS)

RunID: WET_081027B-2840642 Units: mg/L
Analysis Date: 10/27/2008 7:50 Analyst: SRA

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Sulfate	10.00	10.10	101.0	90	110

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08100949-02
RunID: WET_081027B-2840644 Units: mg/L
Analysis Date: 10/27/2008 7:50 Analyst: SRA

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Sulfate	ND	10	10.01	100.1	10	10.10	101.0	0.8951	20	80	120

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

ATC ASSOCIATES, INC.

ANDERSON, SC

Analysis: Sulfate by ASTM D516-90
Method: ASTM D516-90

WorkOrder: 08100949
Lab Batch ID: R191008

Method Blank

RunID: WET_081027C-2840669 Units: mg/L
Analysis Date: 10/27/2008 8:45 Analyst: SRA

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08100949-11C	KMO-18
08100949-12C	MW-17

Analyte	Result	Rep Limit
Sulfate	ND	5.0

Laboratory Control Sample (LCS)

RunID: WET_081027C-2840670 Units: mg/L
Analysis Date: 10/27/2008 8:45 Analyst: SRA

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Sulfate	10.00	9.920	99.20	90	110

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08100949-12
RunID: WET_081027C-2840672 Units: mg/L
Analysis Date: 10/27/2008 8:45 Analyst: SRA

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Sulfate	11.33	10	21.54	102.1	10	21.44	101.1	0.4653	20	80	120

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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Quality Control Report

ATC ASSOCIATES, INC.

ANDERSON, SC

Analysis: Iron, Ferrous
Method: HACH 8146

WorkOrder: 08100949
Lab Batch ID: R191015

Method Blank

RunID: WET_081023ZC-2840775 Units: mg/L
Analysis Date: 10/23/2008 12:15 Analyst: KDS

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08100949-07C	MW-25
08100949-08C	MW-14

Analyte	Result	Rep Limit
Iron, Ferrous	ND	0.050

Laboratory Control Sample (LCS)

RunID: WET_081023ZC-2840776 Units: mg/L
Analysis Date: 10/23/2008 12:15 Analyst: KDS

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Iron, Ferrous	1.000	0.9340	93.40	80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08100949-08
RunID: WET_081023ZC-2840778 Units: mg/L
Analysis Date: 10/23/2008 12:15 Analyst: KDS

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Iron, Ferrous	ND	1	0.9030	90.30	1	0.9340	93.40	3.375	20	80	120

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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Quality Control Report

ATC ASSOCIATES, INC.

ANDERSON, SC

Analysis: Nitrate (as N) **WorkOrder:** 08100949
Method: M4500-NO3 E **Lab Batch ID:** R191201

Method Blank

RunID: WET_081029E-2843750 Units: mg/L
Analysis Date: 10/29/2008 8:30 Analyst: MAT

Analyte	Result	Rep Limit
Nitrate (As N)	ND	0.010

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08100949-01C	MW-2
08100949-02C	MW-3
08100949-03C	MW-6
08100949-04C	MW-10
08100949-05C	MW-11
08100949-06C	MW-13
08100949-07C	MW-25
08100949-08C	MW-14
08100949-09C	MW-15
08100949-10C	KMO-17

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: WET_081029E-2843751 Units: mg/L
Analysis Date: 10/29/2008 8:30 Analyst: MAT

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Nitrate (As N)	0.1500	0.1360	90.67	0.1500	0.1490	99.33	9.1	20	90	110

Sample Duplicate

Original Sample: 08100949-02
RunID: WET_081029E-2843753 Units: mg/L
Analysis Date: 10/29/2008 8:30 Analyst: MAT

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Nitrate (As N)	0.02	0.022	9.52	20

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

ANDERSON, SC

Analysis: Nitrate (as N) **WorkOrder:** 08100949
Method: M4500-NO3 E **Lab Batch ID:** R191218

Method Blank

RunID: WET_081029G-2844008 Units: mg/L
Analysis Date: 10/29/2008 13:30 Analyst: MAT

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08100949-11C	KMO-18
08100949-12C	MW-17

Analyte	Result	Rep Limit
Nitrate (As N)	ND	0.010

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: WET_081029G-2844009 Units: mg/L
Analysis Date: 10/29/2008 13:30 Analyst: MAT

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Nitrate (As N)	0.1500	0.1450	96.67	0.1500	0.1390	92.67	4.2	20	90	110

Sample Duplicate

Original Sample: 08100963-13
RunID: WET_081029G-2844011 Units: mg/L
Analysis Date: 10/29/2008 13:30 Analyst: MAT

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Nitrate (As N)	ND	ND	0	20

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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Sample Receipt Checklist

And

Chain of Custody

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Sample Receipt Checklist

Workorder:	**08100949**	Received By:	**S_T**
Date and Time Received:	**10/23/2008 10:00:21 AM**	Carrier name:	**FedEx-Std 1 Day PM**
Temperature:	**4.0°C**	Chilled by:	**Water Ice**

1.	**Shipping container/cooler in good condition?**	Yes ☑	No ☐	Not Present ☐
2.	**Custody seals intact on shippping container/cooler?**	Yes ☑	No ☐	Not Present ☐
3.	**Custody seals intact on sample bottles?**	Yes ☐	No ☐	Not Present ☑
4.	**Chain of custody present?**	Yes ☑	No ☐	
5.	**Chain of custody signed when relinquished and received?**	Yes ☑	No ☐	
6.	**Chain of custody agrees with sample labels?** RECEIVED LEAD SAMPLES FOR MW-2, MW-3, MW-6, MW-10, MW-11 AND MW-13 NOT RECORDED ON CHAIN OF CUSTODY	Yes ☐	No ☑	
7.	**Samples in proper container/bottle?**	Yes ☑	No ☐	
8.	**Sample containers intact?**	Yes ☑	No ☐	
9.	**Sufficient sample volume for indicated test?**	Yes ☑	No ☐	
10.	**All samples received within holding time?**	Yes ☑	No ☐	
11.	**Container/Temp Blank temperature in compliance?**	Yes ☑	No ☐	
12.	**Water - VOA vials have zero headspace?**	Yes ☑	No ☐	VOA Vials Not Present ☐
13.	**Water - Preservation checked upon receipt (except VOA*)?**	Yes ☑	No ☐	Not Applicable ☐

***VOA Preservation Checked After Sample Analysis**

SPL Representative: _____ **Contact Date & Time:** _____

Client Name Contacted: _____

Non Conformance Issues: _____

Client Instructions: _____

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No. 272526

04100949

page 1 of 2

Client Name: ATC ASSOC.
Address: CHARLOTTE NC
Phone/Fax: 704-529-3200
Client Contact: JAKE W. Email:
Project Name/No.:
Site Name: DANTEY 585
Site Location: ANDERSON, SC
Invoice To: JAKE W. Ph:

P. 1 OF 2

matrix: W=water S=soil O=oil SL=sludge X=other
bottle: P=plastic A=amber glass G=glass V=vial X=other
size: 1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other
pres.: 1=HCl 2=HNO3 3=H2SO4 X=other

Requested Analysis

SAMPLE ID	DATE	TIME	comp	grab	matrix	bottle	size	pres.	Number of Containers	8260 BTEX, MTBE, and NAPH	1,2-DCA	EDB	Nitrates/Sulfates and ferrous iron	8-oxygenates					
MW-2	10/22/08	1215		X	W	X	X	X	8	X	X	X	X	X					8
MW-3		1230								X	X	X	X	X					8
MW-6		1345								X	X	X	X	X					8
~~MW-7~~		~~1400~~								X	X	X	X	X	NO SAMPLE				
MW-10		13:30								X	X	X	X	X					8
MW-11		1315								X	X	X	X	X					8
MW-13		12:00								X	X	X	X	X					8
~~MW-22~~														NO SAMPLERS					
MW-25		1300								X	X	X	X	X					8
~~MW-26~~														NO SAMPLERS					

Client/Consultant Remarks: Day 5 TAT if available

Laboratory remarks: C/S on cooler
RM-5 (8) RM-3 Tha (1) 3W

Intact? Y N
Ice? Y N
Temp: 4°

Requested TAT
Contract ☐ 72hr ☐
24hr ☐ Standard ☑
48hr ☐
Other ☐

Special Reporting Requirements Results: Fax ☐ Email ☐ PDF ☐
Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☐

Special Detection Limits (specify):

PM review (initial):

	date	time		date	time
1. Relinquished by Sampler: Roy Szymanske	10/22/08	1800	2. Received by: Fedex		
3. Relinquished by: Fed ex	10/23/08	930	4. Received by: Stacy Hebert		
5. Relinquished by: Stacy Hebert	10/23/08	10:00	6. Received by Laboratory: Sherita Graham		

☐ 8880 Interchange Drive
Houston, TX 77054 (713) 660-0901

☐ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

☐ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No. 08100949 — 272504

Client Name: DANIELY 585/AC ASSOC.
Address:
Phone/Fax:
Client Contact: Email:
Project Name/No.:
Site Name:
Site Location:
Invoice To: Ph:

See PAGE 1 of 2

matrix: W=water S=soil O=oil SL=sludge X=other
bottle: P=plastic A=amber glass G=glass V=vial X=other
size: 1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other
pres.: 1=HCl 2=HNO3 3=H2SO4 X=other

Requested Analysis

SAMPLE ID	DATE	TIME	comp	grab	matrix	bottle	size	pres.	Number of Containers	8260 BTEX, MTBE, and NAPH	1,2-DCA	Total lead	EDB	Nitrates/Sulfate and Ferrous iron	8-oxygenates			
~~MW-27~~	10/22/08													No	Sample			RS
~~MW-28~~		~~[illegible]~~												No	Sample			RS
MW-14		1400		X	W	X	X	X	8	X	X	X	X	X	X			
MW-15		1415		↓	↓	↓	↓	↓	↓	X	X	X	X	X	X			
KMO-17		1445		↓	↓	↓	↓	↓	↓	X	X	X	X	X	X			
KMO-18		~~[illegible]~~ 1130		↓	↓	↓	↓	↓	↓	X	X	X	X	X	X			
MW-17		1245		↓	↓	↓	↓	↓	↓	X	X	X	X	X	X			

Client/Consultant Remarks: 5 Day TAT if available

Laboratory remarks: CIS on cooler

Intact? ☐ Y ☐ N
Ice? ☐ Y ☐ N
Temp: 4.0

Requested TAT

Contract ☐ 72hr ☐
24hr ☐ Standard ☒
48hr ☐
Other ☐ _____

Special Reporting Requirements Results: Fax ☐ Email ☐ PDF ☐
Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☐

Special Detection Limits (specify):

PM review (initial):

1. Relinquished by Sampler: Roy Szymanski	date 10/22/08	time 1800	2. Received by: FedEx
3. Relinquished by: FedEx	date 10/23/08	time 930	4. Received by: Stacy Hebert
5. Relinquished by: Stacy Hebert	date 10/23/08	time 1000	6. Received by Laboratory: Sheila Graham

FedEx Express US Airbill

FedEx Tracking Number 8670 9128 4038

1 From This portion can be removed for Recipient's records.

Date 10-22-08 FedEx Tracking Number 867091284038

Sender's Name Roy Szymanske Phone 704 629 3200

Company ATC Associates

Address 2417-A Tech Park Ct

City Charlotte State NC ZIP 28217

Dept/Floor/Suite/Room

2 Your Internal Billing Reference

3 To

Recipient's Name Phone

Company

Recipient's Address

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City State ZIP

8670 9128 4038

4a Express Package Service — Packages up to 150 lbs.

- FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- FedEx First Overnight — Earliest next business morning delivery to select locations.** Saturday Delivery NOT available.
- FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate.

* To most locations.

4b Express Freight Service — Packages over 150 lbs.

- FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation:

** To most locations.

5 Packaging

- FedEx Envelope*
- FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- FedEx Box
- FedEx Tube
- Other

* Declared value limit $500.

6 Special Handling — Include FedEx address in Section 3

- SATURDAY Delivery — Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- HOLD Weekday at FedEx Location — Not available for FedEx First Overnight.
- HOLD Saturday at FedEx Location — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

- No
- Yes — As per attached Shipper's Declaration.
- Yes — Shipper's Declaration not required.
- Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

- Cargo Aircraft Only

7 Payment Bill to: Enter FedEx Acct. No. or Credit Card No. below.

- Sender — Acct. No. in Section 1 will be billed.
- Recipient
- Third Party
- Credit Card
- Cash/Check

Total Packages 1 Total Weight 64

Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

Credit Card Auth.

8 Residential Delivery Signature Options — If you require a signature, check Direct or Indirect.

- No Signature Required — Package may be left without obtaining a signature for delivery.
- Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.
- Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies.

519

Rev. Date 10/08 Part #158278 ©1994–2006 FedEx PRINTED IN U.S.A. SRF

RECIPIENT: PEEL HERE

8670 9128 4038

Sample Pr

Prepared by: Sheila Inc

Client: ATC

Submitted to:

Matrix: SOIL

Samples Affected:

Description of non-conformanc

MW-11 & MW-13

analysis

Condition

Temp >6C

Expired Hold Time

Headspace

Unpreserved

Improperly preserved

Insufficient Sample

Client Name Contacted:

Phone:

Client Instructions:

Comments:

Project Manager Signature

COPIES TO: File Project Manager Area Supervisor QA

rev.1095.jpg

FedEx Express US Airbill

FedEx Tracking Number 8670 9128 4119

1 From This portion can be removed for Recipient's records.

Date 10-22-08 FedEx Tracking Number 867091284119

Sender's Name Roy Szymanske Phone 704 528-3200

Company ATC Associates

Address 3417-A Trade Park ct

City Charlotte State NC ZIP 28217

RECIPIENT: PEEL HERE

2 Your Internal Billing Reference

3 To

Recipient's Name

Phone

Company

Recipient's Address

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address Dept./Room/Suite/Room

To request a package be held at a specific FedEx location, print FedEx address here.

City State LA ZIP 70583-5800

C 369754690

8670 9128 4119

4a Express Package Service

- [x] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [x] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available. (Packages up to 150 lbs.)
- [ ] FedEx 2Day — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.** Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate.

* To most locations.

4b Express Freight Service

- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available. (Packages over 150 lbs.)

* Call for Confirmation:

** To most locations.

5 Packaging

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other

* Declared value limit $500.

6 Special Handling

- [ ] SATURDAY Delivery — Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] HOLD Weekday at FedEx Location — Not available for FedEx First Overnight.
- [ ] HOLD Saturday at FedEx Location — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

7 Payment Bill to: Enter FedEx Acct. No. or Credit Card No. below.

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [x] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Total Packages Total Weight

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

Credit Card Auth.

8 Residential Delivery Signature Options — If you require a signature, check Direct or Indirect.

- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. Fee applies.

519

Rev. Date 10/08 Part #152279-©1994-2008 FedEx PRINTED IN U.S.A. SRF

rev:3/95.jpe QA Area Supervisor Project Manager

Sample Pr

Prepared by: Sheila Inc

Client: ATC

Submitted to:

Matrix: SOIL

Samples Affected:

Description of non-conformance: MW-11, MW-13 analysis

Condition

Temp >6C

Expired Hold Time

Headspace

Unpreserved

Improperly preserved

Insufficient Sample

Client Name Contacted:

Phone:

Client Instructions:

Comments:

Project Manager Signature

COPIES TO: File

ATC ASSOCIATES INC.
Engineering Individual Solutions

400 Northeast Drive, Unit Q
Columbia, South Carolina 29203
803-735-0003
Fax 803-735-0443
www.atcassociates.com

RECEIVED
DEC 08 2008
UNDERGROUND STORAGE TANK PROGRAM

December 8, 2008

Mr. Art Shrader, Hydrogeologist
SCDHEC – UST Program
Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201-1708

Re: 81 Food Mart (former Pantry #585)
1502 East Greenville Street
Anderson, South Carolina
Anderson County
UST Permit #12458

Dear Mr. Shrader:

Please find attached the revised grain size distribution curves for Monitor Wells MW-21 and MW-24. The grain size distribution curves that were included in the recently submitted Groundwater Assessment Report for the former Pantry #585 were incomplete. ATC Associates Inc. apologizes for any inconvenience that this may have caused. Should you have any questions or require additional information, please contact me at 735-0003.

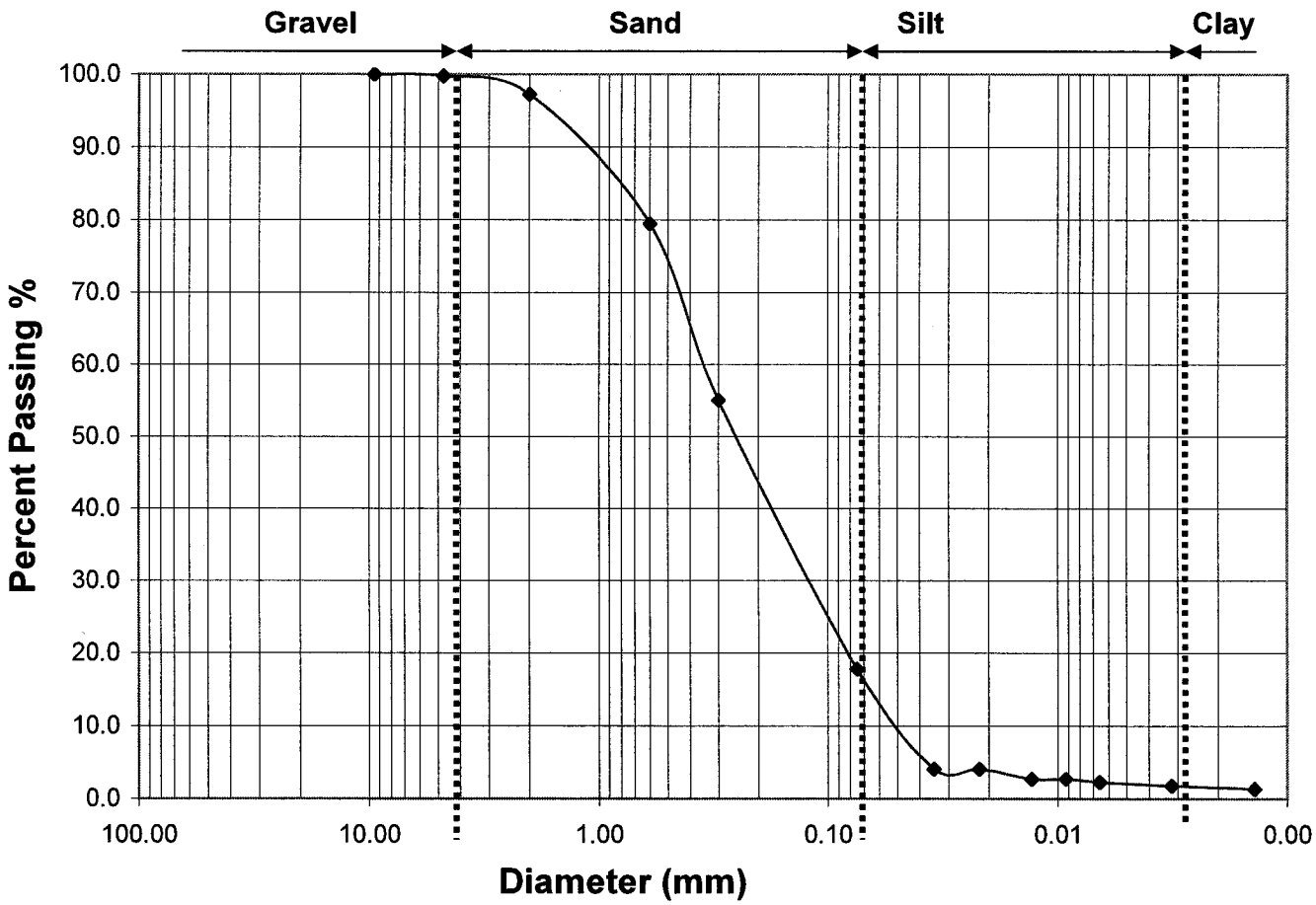
Sincerely,
ATC Associates Inc.

Bob Bolton
Environmental Division Manager

Attachments

UST DOCKET
13 tech

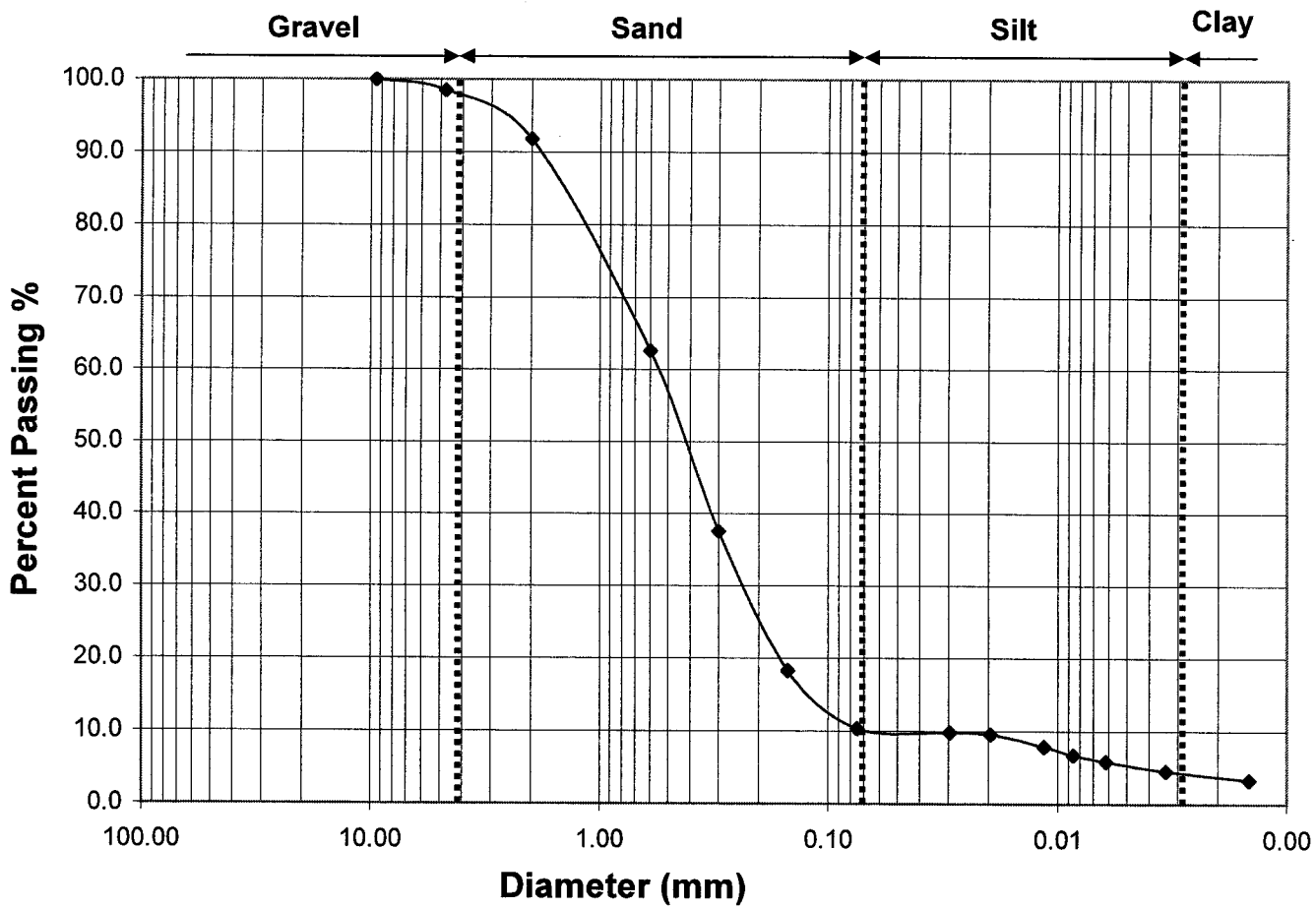
Grain Size Distribution Curve



Gravel = 0.2%
Sand = 82 %
Silt =16.1 %
Clay = 1.7%

Pantry 585
MW- 21, 43 to 45 feet

Grain Size Distribution Curve



Pantry 585
MW- 24, 15 to 17 feet

Gravel = 1.5%
Sand = 88.2 %
Silt =6.3 %
Clay = 4%

12458

RECEIVED

DEC 10 2008

UNDERGROUND STORAGE TANK PROGRAM

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Case Narrative for:
ATC ASSOCIATES, INC.

Certificate of Analysis Number:
08101014

Report To:		Project Name:	ATC CHARLOTTE, NC
ATC ASSOCIATES, INC.		Site:	PANTRY 585
JAKE WHITTLE		Site Address:	
3417-A TRADE PARK CT.			ANDERSON SC
CHARLOTTE		PO Number:	
NC		State:	South Carolina
28217-		State Cert. No.:	73004001
ph: (704) 529-3200	fax:	Date Reported:	11/4/2008

NOTE: For all samples, the laboratory received metals sample bottles. The metals analysis was not recorded on the chain of custody. The client, via e-mail, requested all metal samples be analyzed for total lead.

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data for those samples spiked by the laboratory and may be applicable to other samples of similar matrix from the site. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process. If insufficient sample is supplied for MS/MSD, a Laboratory Control Sample (LCS) and a Laboratory Control Sample Duplicate (LCSD) are reported with the analytical batch and serve as the batch quality control (QC).

Results are reported on a Wet Weight Basis unless otherwise noted in the sample unit field as -dry.

The collection of samples using encores, terracores or other field collection devices may result in inconsistent initial sample weights for the parent sample and MS/MSD samples.

The MS/MSD recovery and precision data are calculated based on detected spike concentrations that are adjusted for initial sample weights. As a result of the variability between initial sample weights, the calculated RPD may have increased bias.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

TOTAL NUMBER OF PAGES IN THIS REPORT: _____ PAGES

Amy K. Jackson

11/4/2008

Amy K. Jackson
Project Manager

Date

Test results meet all requirements of NELAC, unless specified in the narrative.

UST DOCKET

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

ATC ASSOCIATES, INC.

Certificate of Analysis Number:

08101014

Report To: ATC ASSOCIATES, INC.
JAKE WHITTLE
3417-A TRADE PARK CT.

CHARLOTTE
NC
28217-
ph: (704) 529-3200 fax: (704) 529-3272

Fax To:

Project Name: ATC CHARLOTTE, NC
Site: PANTRY 585
Site Address:
ANDERSON SC
PO Number:
State: South Carolina
State Cert. No.: 73004001
Date Reported: 11/4/2008

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
MW-7	08101014-01	Water	10/23/2008 1:30:00 PM	10/24/2008 10:00:00 AM		☐
MW-22	08101014-02	Water	10/23/2008 1:45:00 PM	10/24/2008 10:00:00 AM		☐
MW-26	08101014-03	Water	10/23/2008 2:00:00 PM	10/24/2008 10:00:00 AM		☐
MW-27	08101014-04	Water	10/23/2008 2:15:00 PM	10/24/2008 10:00:00 AM		☐
MW-28	08101014-05	Water	10/23/2008 2:30:00 PM	10/24/2008 10:00:00 AM		☐

11/4/2008

Amy K. Jackson
Project Manager

Date

Ron Benjamin
Laboratory Director

Tristan Davis
Quality Assurance Officer

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-7 **Collected:** 10/23/2008 13:30 **SPL Sample ID:** 08101014-01

Site: PANTRY 585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
IRON, FERROUS				**MCL**	**HACH 8146**	**Units: mg/L**	
Iron, Ferrous	ND		0.05	1	10/24/08 14:10	KDS	2841631
METHOD 504.1				**MCL**	**E504.1**	**Units: ug/L**	
1,2-Dibromoethane	ND		0.021	1	10/31/08 23:28	MAR	2848504
Surr: 1-Chloro-2-fluorobenzene	87.7		% 33-151	1	10/31/08 23:28	MAR	2848504

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	10/27/2008 9:49	DGP	1.04

NITRATE (AS N)				**MCL**	**M4500-NO3 E**	**Units: mg/L**	
Nitrate (As N)	0.766		0.1	10	11/01/08 10:00	MAT	2848002
SULFATE BY ASTM D516-90				**MCL**	**ASTM D516-90**	**Units: mg/L**	
Sulfate	37.7		5	1	10/27/08 9:30	SRA	2840827
TOTAL METALS BY METHOD 200.8				**MCL**	**E200.8**	**Units: ug/L**	
Lead	3.36		1	1	10/31/08 8:18	RJD	2846789

Prep Method	Prep Date	Prep Initials	Prep Factor
E200.8	10/24/2008 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**	
3,3-Dimethyl-1-butanol	ND		10	1	10/28/08 13:16	DN	2843473
Diisopropyl ether	ND		5	1	10/28/08 13:16	DN	2843473
Ethanol	ND		100	1	10/28/08 13:16	DN	2843473
t-Butyl alcohol	ND		10	1	10/28/08 13:16	DN	2843473
tert-Amyl alcohol	ND		10	1	10/28/08 13:16	DN	2843473
tert-Amyl methyl ether	ND		5	1	10/28/08 13:16	DN	2843473
tert-Butyl ethyl ether	ND		5	1	10/28/08 13:16	DN	2843473
tert-Butyl formate	ND		1	1	10/28/08 13:16	DN	2843473
1,2-Dichloroethane	ND		5	1	10/28/08 13:16	DN	2843473
Benzene	ND		5	1	10/28/08 13:16	DN	2843473
Ethylbenzene	ND		5	1	10/28/08 13:16	DN	2843473
Methyl tert-butyl ether	ND		5	1	10/28/08 13:16	DN	2843473
Naphthalene	ND		5	1	10/28/08 13:16	DN	2843473
Toluene	ND		5	1	10/28/08 13:16	DN	2843473
m,p-Xylene	ND		5	1	10/28/08 13:16	DN	2843473
o-Xylene	ND		5	1	10/28/08 13:16	DN	2843473
Xylenes,Total	ND		5	1	10/28/08 13:16	DN	2843473
Surr: 1,2-Dichloroethane-d4	79.7		% 74-133	1	10/28/08 13:16	DN	2843473
Surr: 4-Bromofluorobenzene	101		% 74-116	1	10/28/08 13:16	DN	2843473
Surr: Toluene-d8	103		% 84-112	1	10/28/08 13:16	DN	2843473

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-22 **Collected:** 10/23/2008 13:45 **SPL Sample ID:** 08101014-02

Site: PANTRY 585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
IRON, FERROUS				**MCL**	**HACH 8146**	**Units: mg/L**	
Iron, Ferrous	ND		0.05	1	10/24/08 14:10	KDS	2841634
METHOD 504.1				**MCL**	**E504.1**	**Units: ug/L**	
1,2-Dibromoethane	ND		0.021	1	10/31/08 23:48	MAR	2848505
Surr: 1-Chloro-2-fluorobenzene	88.9		% 33-151	1	10/31/08 23:48	MAR	2848505

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	10/27/2008 9:49	DGP	1.03

NITRATE (AS N)				**MCL**	**M4500-NO3 E**	**Units: mg/L**	
Nitrate (As N)	ND		0.01	1	11/01/08 10:00	MAT	2847999
SULFATE BY ASTM D516-90				**MCL**	**ASTM D516-90**	**Units: mg/L**	
Sulfate	11.8		5	1	10/27/08 9:30	SRA	2840828
TOTAL METALS BY METHOD 200.8				**MCL**	**E200.8**	**Units: ug/L**	
Lead	ND		1	1	10/31/08 8:23	RJD	2846790

Prep Method	Prep Date	Prep Initials	Prep Factor
E200.8	10/24/2008 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**	
3,3-Dimethyl-1-butanol	ND		10	1	10/28/08 13:46	DN	2843474
Diisopropyl ether	ND		5	1	10/28/08 13:46	DN	2843474
Ethanol	ND		100	1	10/28/08 13:46	DN	2843474
t-Butyl alcohol	ND		10	1	10/28/08 13:46	DN	2843474
tert-Amyl alcohol	ND		10	1	10/28/08 13:46	DN	2843474
tert-Amyl methyl ether	ND		5	1	10/28/08 13:46	DN	2843474
tert-Butyl ethyl ether	ND		5	1	10/28/08 13:46	DN	2843474
tert-Butyl formate	ND		1	1	10/28/08 13:46	DN	2843474
1,2-Dichloroethane	ND		5	1	10/28/08 13:46	DN	2843474
Benzene	ND		5	1	10/28/08 13:46	DN	2843474
Ethylbenzene	5.4		5	1	10/28/08 13:46	DN	2843474
Methyl tert-butyl ether	ND		5	1	10/28/08 13:46	DN	2843474
Naphthalene	9.4		5	1	10/28/08 13:46	DN	2843474
Toluene	ND		5	1	10/28/08 13:46	DN	2843474
m,p-Xylene	14		5	1	10/28/08 13:46	DN	2843474
o-Xylene	12		5	1	10/28/08 13:46	DN	2843474
Xylenes,Total	26		5	1	10/28/08 13:46	DN	2843474
Surr: 1,2-Dichloroethane-d4	77.4		% 74-133	1	10/28/08 13:46	DN	2843474
Surr: 4-Bromofluorobenzene	99.6		% 74-116	1	10/28/08 13:46	DN	2843474
Surr: Toluene-d8	99.4		% 84-112	1	10/28/08 13:46	DN	2843474

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-26 **Collected:** 10/23/2008 14:00 **SPL Sample ID:** 08101014-03

Site: PANTRY 585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
IRON, FERROUS				**MCL**	**HACH 8146**	**Units: mg/L**	
Iron, Ferrous	ND		0.05	1	10/24/08 14:10	KDS	2841635
METHOD 504.1				**MCL**	**E504.1**	**Units: ug/L**	
1,2-Dibromoethane	ND		0.021	1	11/01/08 0:27	MAR	2848507
Surr: 1-Chloro-2-fluorobenzene	86.6		% 33-151	1	11/01/08 0:27	MAR	2848507

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	10/27/2008 9:49	DGP	1.03

NITRATE (AS N)				**MCL**	**M4500-NO3 E**	**Units: mg/L**	
Nitrate (As N)	ND		0.01	1	11/01/08 10:00	MAT	2848004
SULFATE BY ASTM D516-90				**MCL**	**ASTM D516-90**	**Units: mg/L**	
Sulfate	27		5	1	10/27/08 9:30	SRA	2840829
TOTAL METALS BY METHOD 200.8				**MCL**	**E200.8**	**Units: ug/L**	
Lead	2.13		1	1	10/31/08 8:27	RJD	2846791

Prep Method	Prep Date	Prep Initials	Prep Factor
E200.8	10/24/2008 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**	
3,3-Dimethyl-1-butanol	ND		10	1	10/28/08 14:16	DN	2843475
Diisopropyl ether	ND		5	1	10/28/08 14:16	DN	2843475
Ethanol	ND		100	1	10/28/08 14:16	DN	2843475
t-Butyl alcohol	ND		10	1	10/28/08 14:16	DN	2843475
tert-Amyl alcohol	ND		10	1	10/28/08 14:16	DN	2843475
tert-Amyl methyl ether	ND		5	1	10/28/08 14:16	DN	2843475
tert-Butyl ethyl ether	ND		5	1	10/28/08 14:16	DN	2843475
tert-Butyl formate	ND		1	1	10/28/08 14:16	DN	2843475
1,2-Dichloroethane	ND		5	1	10/28/08 14:16	DN	2843475
Benzene	ND		5	1	10/28/08 14:16	DN	2843475
Ethylbenzene	ND		5	1	10/28/08 14:16	DN	2843475
Methyl tert-butyl ether	ND		5	1	10/28/08 14:16	DN	2843475
Naphthalene	ND		5	1	10/28/08 14:16	DN	2843475
Toluene	ND		5	1	10/28/08 14:16	DN	2843475
m,p-Xylene	ND		5	1	10/28/08 14:16	DN	2843475
o-Xylene	ND		5	1	10/28/08 14:16	DN	2843475
Xylenes,Total	ND		5	1	10/28/08 14:16	DN	2843475
Surr: 1,2-Dichloroethane-d4	76.5		% 74-133	1	10/28/08 14:16	DN	2843475
Surr: 4-Bromofluorobenzene	98.3		% 74-116	1	10/28/08 14:16	DN	2843475
Surr: Toluene-d8	100		% 84-112	1	10/28/08 14:16	DN	2843475

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-27 **Collected:** 10/23/2008 14:15 **SPL Sample ID:** 08101014-04

Site: PANTRY 585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
IRON, FERROUS				**MCL**	**HACH 8146**	**Units: mg/L**	
Iron, Ferrous	ND		0.05	1	10/24/08 14:10	KDS	2841636
METHOD 504.1				**MCL**	**E504.1**	**Units: ug/L**	
1,2-Dibromoethane	ND		0.021	1	11/01/08 0:46	MAR	2848508
Surr: 1-Chloro-2-fluorobenzene	92.9	%	33-151	1	11/01/08 0:46	MAR	2848508

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	10/27/2008 9:49	DGP	1.03

NITRATE (AS N)				**MCL**	**M4500-NO3 E**	**Units: mg/L**	
Nitrate (As N)	0.042		0.01	1	11/01/08 10:00	MAT	2848005
SULFATE BY ASTM D516-90				**MCL**	**ASTM D516-90**	**Units: mg/L**	
Sulfate	28		5	1	10/27/08 9:30	SRA	2840830
TOTAL METALS BY METHOD 200.8				**MCL**	**E200.8**	**Units: ug/L**	
Lead	1.62		1	1	10/31/08 8:31	RJD	2846792

Prep Method	Prep Date	Prep Initials	Prep Factor
E200.8	10/24/2008 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**	
3,3-Dimethyl-1-butanol	ND		2000	200	10/30/08 21:52	DN	2846222
Diisopropyl ether	ND		1000	200	10/30/08 21:52	DN	2846222
Ethanol	ND		20000	200	10/30/08 21:52	DN	2846222
t-Butyl alcohol	2200		2000	200	10/30/08 21:52	DN	2846222
tert-Amyl alcohol	ND		2000	200	10/30/08 21:52	DN	2846222
tert-Amyl methyl ether	ND		1000	200	10/30/08 21:52	DN	2846222
tert-Butyl ethyl ether	ND		1000	200	10/30/08 21:52	DN	2846222
tert-Butyl formate	ND		200	200	10/30/08 21:52	DN	2846222
1,2-Dichloroethane	ND		1000	200	10/30/08 21:52	DN	2846222
Benzene	14000		1000	200	10/30/08 21:52	DN	2846222
Ethylbenzene	3000		1000	200	10/30/08 21:52	DN	2846222
Methyl tert-butyl ether	2500		1000	200	10/30/08 21:52	DN	2846222
Naphthalene	1500		1000	200	10/30/08 21:52	DN	2846222
Toluene	24000		1000	200	10/30/08 21:52	DN	2846222
m,p-Xylene	11000		1000	200	10/30/08 21:52	DN	2846222
o-Xylene	4800		1000	200	10/30/08 21:52	DN	2846222
Xylenes,Total	15800		1000	200	10/30/08 21:52	DN	2846222
Surr: 1,2-Dichloroethane-d4	98.5	%	74-133	200	10/30/08 21:52	DN	2846222
Surr: 4-Bromofluorobenzene	100	%	74-116	200	10/30/08 21:52	DN	2846222
Surr: Toluene-d8	102	%	84-112	200	10/30/08 21:52	DN	2846222

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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Client Sample ID: MW-28 **Collected:** 10/23/2008 14:30 **SPL Sample ID:** 08101014-05

Site: PANTRY 585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
IRON, FERROUS				**MCL**	**HACH 8146**	**Units: mg/L**	
Iron, Ferrous	ND		0.05	1	10/24/08 14:10	KDS	2841637
METHOD 504.1				**MCL**	**E504.1**	**Units: ug/L**	
1,2-Dibromoethane	ND		0.02	1	11/01/08 1:06	MAR	2848509
Surr: 1-Chloro-2-fluorobenzene	88.2		% 33-151	1	11/01/08 1:06	MAR	2848509

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	10/27/2008 9:49	DGP	1.02

NITRATE (AS N)				**MCL**	**M4500-NO3 E**	**Units: mg/L**	
Nitrate (As N)	0.072		0.01	1	11/01/08 10:00	MAT	2848003
SULFATE BY ASTM D516-90				**MCL**	**ASTM D516-90**	**Units: mg/L**	
Sulfate	62.3		12.5	2.5	10/27/08 9:30	SRA	2840831
TOTAL METALS BY METHOD 200.8				**MCL**	**E200.8**	**Units: ug/L**	
Lead	ND		1	1	10/31/08 8:36	RJD	2846793

Prep Method	Prep Date	Prep Initials	Prep Factor
E200.8	10/24/2008 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**	
3,3-Dimethyl-1-butanol	ND		10	1	10/28/08 15:17	DN	2843477
Diisopropyl ether	ND		5	1	10/28/08 15:17	DN	2843477
Ethanol	ND		100	1	10/28/08 15:17	DN	2843477
t-Butyl alcohol	ND		10	1	10/28/08 15:17	DN	2843477
tert-Amyl alcohol	ND		10	1	10/28/08 15:17	DN	2843477
tert-Amyl methyl ether	ND		5	1	10/28/08 15:17	DN	2843477
tert-Butyl ethyl ether	ND		5	1	10/28/08 15:17	DN	2843477
tert-Butyl formate	ND		1	1	10/28/08 15:17	DN	2843477
1,2-Dichloroethane	ND		5	1	10/28/08 15:17	DN	2843477
Benzene	ND		5	1	10/28/08 15:17	DN	2843477
Ethylbenzene	ND		5	1	10/28/08 15:17	DN	2843477
Methyl tert-butyl ether	15		5	1	10/28/08 15:17	DN	2843477
Naphthalene	ND		5	1	10/28/08 15:17	DN	2843477
Toluene	ND		5	1	10/28/08 15:17	DN	2843477
m,p-Xylene	ND		5	1	10/28/08 15:17	DN	2843477
o-Xylene	ND		5	1	10/28/08 15:17	DN	2843477
Xylenes,Total	ND		5	1	10/28/08 15:17	DN	2843477
Surr: 1,2-Dichloroethane-d4	76.0		% 74-133	1	10/28/08 15:17	DN	2843477
Surr: 4-Bromofluorobenzene	101		% 74-116	1	10/28/08 15:17	DN	2843477
Surr: Toluene-d8	99.6		% 84-112	1	10/28/08 15:17	DN	2843477

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

Quality Control Documentation

LAFAYETTE LABORATORY
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(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

ATC CHARLOTTE, NC

Analysis: METHOD 504.1 **WorkOrder:** 08101014
Method: E504.1 **Lab Batch ID:** 74386

Method Blank

RunID: PCBB_081031A-2848485 Units: ug/L
Analysis Date: 10/31/2008 16:49 Analyst: MAR
Preparation Date: 10/27/2008 9:49 Prep By: DGP Method: E504

Analyte	Result	Rep Limit
1,2-Dibromoethane	ND	0.020
Surr: 1-Chloro-2-fluorobenzene	105.5	33-151

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08101014-01B	MW-7
08101014-02B	MW-22
08101014-03B	MW-26
08101014-04B	MW-27
08101014-05B	MW-28

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: PCBB_081031A-2848486 Units: ug/L
Analysis Date: 10/31/2008 17:08 Analyst: MAR
Preparation Date: 10/27/2008 9:49 Prep By: DGP Method: E504

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1,2-Dibromoethane	0.570	0.539	94.6	0.570	0.565	99.1	4.7	30	60	140
Surr: 1-Chloro-2-fluorobenzene	143	137	95.8	143	139	97.3	1.6	30	33	151

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

ATC ASSOCIATES, INC.

ATC CHARLOTTE, NC

Analysis: Total Metals by Method 200.8 **WorkOrder:** 08101014
Method: E200.8 **Lab Batch ID:** 74370-I

Method Blank

RunID: ICPMS_081030E-2846776 Units: ug/L
Analysis Date: 10/31/2008 7:20 Analyst: RJD
Preparation Date: 10/24/2008 17:00 Prep By: SA Method: E200.8

Analyte	Result	Rep Limit
Lead	ND	1

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08101014-01C	MW-7
08101014-02C	MW-22
08101014-03C	MW-26
08101014-04C	MW-27
08101014-05C	MW-28

Laboratory Control Sample (LCS)

RunID: ICPMS_081030E-2846777 Units: ug/L
Analysis Date: 10/31/2008 7:24 Analyst: RJD
Preparation Date: 10/24/2008 17:00 Prep By: SA Method: E200.8

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Lead	100.0	104.2	104.2	85	115

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08100991-01
RunID: ICPMS_081030E-2846780 Units: ug/L
Analysis Date: 10/31/2008 7:37 Analyst: RJD
Preparation Date: 10/24/2008 17:00 Prep By: SA Method: E200.8

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Lead	ND	100	91.28	82.23	100	94.42	85.37	3.386	20	70	130

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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Quality Control Report

ATC ASSOCIATES, INC.

ATC CHARLOTTE, NC

Analysis: Volatile Organics:Method 8260B
Method: SW8260B
WorkOrder: 08101014
Lab Batch ID: R191180

Method Blank

RunID: QB_081028B-2843472 Units: ug/L
Analysis Date: 10/28/2008 11:45 Analyst: DN
Preparation Date: 10/28/2008 11:45 Prep By: Method: SW5035

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08101014-01A	MW-7
08101014-02A	MW-22
08101014-03A	MW-26
08101014-05A	MW-28

Analyte	Result	Rep Limit
1,2-Dichloroethane	ND	5.0
3,3-Dimethyl-1-butanol	ND	10
Benzene	ND	5.0
Diisopropyl ether	ND	5.0
Ethanol	ND	100
Ethylbenzene	ND	5.0
Methyl tert-butyl ether	ND	5.0
Naphthalene	ND	5.0
t-Butyl alcohol	ND	10
tert-Amyl alcohol	ND	10
tert-Amyl methyl ether	ND	5.0
tert-Butyl ethyl ether	ND	5.0
tert-Butyl formate	ND	1.0
Toluene	ND	5.0
m,p-Xylene	ND	5.0
o-Xylene	ND	5.0
Xylenes,Total	ND	5.0
Surr: 1,2-Dichloroethane-d4	77.1	74-133
Surr: 4-Bromofluorobenzene	101.2	74-116
Surr: Toluene-d8	99.8	84-112

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: QB_081028B-2843470 Units: ug/L
Analysis Date: 10/28/2008 10:15 Analyst: DN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1,2-Dichloroethane	50.0	36.7	73.4	50.0	37.4	74.8	1.9	21	73	134
3,3-Dimethyl-1-butanol	500	377	75.3	500	402	80.4	6.6	47	45	122
Benzene	50.0	50.6	101	50.0	50.6	101	0.0	23	79	124
Diisopropyl ether	50.0	45.3	90.6	50.0	46.4	92.8	2.4	21	79	127
Ethanol	1000	780	78.0	1000	773	77.3	0.9	66	46	175
Ethylbenzene	50.0	53.9	108	50.0	57.2	114	5.9	16	79	125
Methyl tert-butyl ether	50.0	43.5	87.0	50.0	45.6	91.2	4.7	23	77	125
Naphthalene	50.0	46.6	93.2	50.0	49.3	98.5	5.6	27	72	132
t-Butyl alcohol	500	331	66.2	500	353	70.5	6.2	54	11	154

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

ATC ASSOCIATES, INC.

ATC CHARLOTTE, NC

Analysis: Volatile Organics:Method 8260B
Method: SW8260B
WorkOrder: 08101014
Lab Batch ID: R191180

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: QB_081028B-2843470 Units: ug/L
Analysis Date: 10/28/2008 10:15 Analyst: DN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
tert-Amyl alcohol	500	322	64.3	500	356	71.3	10.3	47	44	141
tert-Amyl methyl ether	50.0	44.2	88.3	50.0	45.4	90.7	2.6	21	73	123
tert-Butyl ethyl ether	50.0	45.3	90.6	50.0	45.7	91.4	0.8	24	75	125
tert-Butyl formate	50.0	43.2	86.4	50.0	42.9	85.7	0.8	34	38	172
Toluene	50.0	54.1	108	50.0	58.8	118	8.2	21	79	124
m,p-Xylene	100	111	111	100	116	116	4.9	20	77	132
o-Xylene	50.0	52.5	105	50.0	56.1	112	6.6	17	76	127
Xylenes,Total	150.0	163.5	108.8	150.0	172.1	114.9	5.4	20	76	130
Surr: 1,2-Dichloroethane-d4	50.0	39.8	79.7	50.0	39.7	79.3	0.5	30	74	133
Surr: 4-Bromofluorobenzene	50.0	49.5	99.1	50.0	50.6	101	2.1	30	74	116
Surr: Toluene-d8	50.0	51.4	103	50.0	48.9	97.7	5.1	30	84	112

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

ATC ASSOCIATES, INC.

ATC CHARLOTTE, NC

Analysis: Volatile Organics:Method 8260B
Method: SW8260B

WorkOrder: 08101014
Lab Batch ID: R191360

Method Blank

RunID: QB_081030A-2846216 Units: ug/L
Analysis Date: 10/30/2008 18:52 Analyst: DN
Preparation Date: 10/30/2008 18:52 Prep By: Method: SW5035

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08101014-04A	MW-27

Analyte	Result	Rep Limit
1,2-Dichloroethane	ND	5.0
3,3-Dimethyl-1-butanol	ND	10
Benzene	ND	5.0
Diisopropyl ether	ND	5.0
Ethanol	ND	100
Ethylbenzene	ND	5.0
Methyl tert-butyl ether	ND	5.0
Naphthalene	ND	5.0
t-Butyl alcohol	ND	10
tert-Amyl alcohol	ND	10
tert-Amyl methyl ether	ND	5.0
tert-Butyl ethyl ether	ND	5.0
tert-Butyl formate	ND	1.0
Toluene	ND	5.0
m,p-Xylene	ND	5.0
o-Xylene	ND	5.0
Xylenes,Total	ND	5.0
Surr: 1,2-Dichloroethane-d4	102.9	74-133
Surr: 4-Bromofluorobenzene	96.0	74-116
Surr: Toluene-d8	98.0	84-112

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: QB_081030A-2846214 Units: ug/L
Analysis Date: 10/30/2008 17:21 Analyst: DN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1,2-Dichloroethane	50.0	48.6	97.2	50.0	48.2	96.4	0.8	21	73	134
3,3-Dimethyl-1-butanol	500	468	93.6	500	467	93.4	0.2	47	45	122
Benzene	50.0	50.0	100	50.0	50.2	100	0.4	23	79	124
Diisopropyl ether	50.0	50.3	101	50.0	52.3	105	4.0	21	79	127
Ethanol	1000	865	86.5	1000	817	81.7	5.7	66	46	175
Ethylbenzene	50.0	49.1	98.2	50.0	50.2	100	2.3	16	79	125
Methyl tert-butyl ether	50.0	53.1	106	50.0	55.3	111	4.1	23	77	125
Naphthalene	50.0	51.1	102	50.0	49.8	99.6	2.7	27	72	132
t-Butyl alcohol	500	483	96.7	500	500	100	3.5	54	11	154

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

ATC ASSOCIATES, INC.

ATC CHARLOTTE, NC

Analysis: Volatile Organics:Method 8260B
Method: SW8260B
WorkOrder: 08101014
Lab Batch ID: R191360

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: QB_081030A-2846214 Units: ug/L
Analysis Date: 10/30/2008 17:21 Analyst: DN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
tert-Amyl alcohol	500	499	99.7	500	483	96.5	3.2	47	44	141
tert-Amyl methyl ether	50.0	52.0	104	50.0	51.1	102	1.8	21	73	123
tert-Butyl ethyl ether	50.0	53.5	107	50.0	54.8	110	2.5	24	75	125
tert-Butyl formate	50.0	49.0	98.0	50.0	49.7	99.4	1.4	34	38	172
Toluene	50.0	45.6	91.3	50.0	46.7	93.4	2.3	21	79	124
m,p-Xylene	100	104	104	100	104	104	0.1	20	77	132
o-Xylene	50.0	49.9	99.9	50.0	50.7	101	1.5	17	76	127
Xylenes,Total	150.0	153.9	102.7	150.0	154.7	103.3	0.5	20	76	130
Surr: 1,2-Dichloroethane-d4	50.0	49.1	98.2	50.0	49.9	99.8	1.6	30	74	133
Surr: 4-Bromofluorobenzene	50.0	49.8	99.6	50.0	48.5	97.0	2.7	30	74	116
Surr: Toluene-d8	50.0	50.4	101	50.0	50.5	101	0.1	30	84	112

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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Quality Control Report

ATC ASSOCIATES, INC.

ATC CHARLOTTE, NC

Analysis: Sulfate by ASTM D516-90
Method: ASTM D516-90

WorkOrder: 08101014
Lab Batch ID: R191017

Method Blank

RunID: WET_081027G-2840822 Units: mg/L
Analysis Date: 10/27/2008 9:30 Analyst: SRA

Analyte	Result	Rep Limit
Sulfate	ND	5.0

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08101014-01D	MW-7
08101014-02D	MW-22
08101014-03D	MW-26
08101014-04D	MW-27
08101014-05D	MW-28

Laboratory Control Sample (LCS)

RunID: WET_081027G-2840823 Units: mg/L
Analysis Date: 10/27/2008 9:30 Analyst: SRA

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Sulfate	10.00	10.20	102.0	90	110

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08101020-01
RunID: WET_081027G-2840825 Units: mg/L
Analysis Date: 10/27/2008 9:30 Analyst: SRA

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Sulfate	ND	10	10.10	101.0	10	10.10	101.0	0	20	80	120

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

ATC CHARLOTTE, NC

Analysis: Iron, Ferrous
Method: HACH 8146

WorkOrder: 08101014
Lab Batch ID: R191059

Method Blank

RunID: WET_081024W-2841628 Units: mg/L
Analysis Date: 10/24/2008 14:10 Analyst: KDS

Analyte	Result	Rep Limit
Iron, Ferrous	ND	0.050

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08101014-01D	MW-7
08101014-02D	MW-22
08101014-03D	MW-26
08101014-04D	MW-27
08101014-05D	MW-28

Laboratory Control Sample (LCS)

RunID: WET_081024W-2841630 Units: mg/L
Analysis Date: 10/24/2008 14:10 Analyst: KDS

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Iron, Ferrous	1.000	1.090	109.0	80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08101014-01
RunID: WET_081024W-2841632 Units: mg/L
Analysis Date: 10/24/2008 14:10 Analyst: KDS

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Iron, Ferrous	ND	1	1.120	112.0	1	1.150	115.0	2.643	20	80	120

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

ATC CHARLOTTE, NC

Analysis: Nitrate (as N)
Method: M4500-NO3 E

WorkOrder: 08101014
Lab Batch ID: R191441

Method Blank

RunID: WET_081101B-2847996 Units: mg/L
Analysis Date: 11/01/2008 10:00 Analyst: MAT

Analyte	Result	Rep Limit
Nitrate (As N)	ND	0.010

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
08101014-01D	MW-7
08101014-02D	MW-22
08101014-03D	MW-26
08101014-04D	MW-27
08101014-05D	MW-28

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: WET_081101B-2847997 Units: mg/L
Analysis Date: 11/01/2008 10:00 Analyst: MAT

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Nitrate (As N)	0.1500	0.1510	100.7	0.1500	0.1650	110.0 *	8.9	20	90	110

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 08101014-02
RunID: WET_081101B-2848000 Units: mg/L
Analysis Date: 11/01/2008 10:00 Analyst: MAT

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Nitrate (As N)	ND	0.15	0.1520	101.3	0.15	0.1780	118.7	15.76	20	80	120

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

Sample Receipt Checklist

And

Chain of Custody

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Sample Receipt Checklist

Workorder:	**08101014**	Received By:	**S_T**
Date and Time Received:	**10/24/2008 10:00:00 AM**	Carrier name:	**FedEx-Std 1 Day PM**
Temperature:	**4.0°C**	Chilled by:	**Water Ice**

1.	**Shipping container/cooler in good condition?**	Yes ☑	No ☐	Not Present ☐
2.	**Custody seals intact on shippping container/cooler?**	Yes ☑	No ☐	Not Present ☐
3.	**Custody seals intact on sample bottles?**	Yes ☐	No ☑	Not Present ☐
4.	**Chain of custody present?**	Yes ☑	No ☐	
5.	**Chain of custody signed when relinquished and received?**	Yes ☑	No ☐	
6.	**Chain of custody agrees with sample labels?**	Yes ☑	No ☐	
7.	**Samples in proper container/bottle?**	Yes ☑	No ☐	
8.	**Sample containers intact?**	Yes ☑	No ☐	
9.	**Sufficient sample volume for indicated test?**	Yes ☑	No ☐	
10.	**All samples received within holding time?**	Yes ☑	No ☐	
11.	**Container/Temp Blank temperature in compliance?**	Yes ☑	No ☐	
12.	**Water - VOA vials have zero headspace?**	Yes ☑	No ☐	VOA Vials Not Present ☐
13.	**Water - Preservation checked upon receipt (except VOA*)?**	Yes ☑	No ☐	Not Applicable ☐

***VOA Preservation Checked After Sample Analysis**

SPL Representative: _____ **Contact Date & Time:** _____

Client Name Contacted: _____

Non Conformance Issues: _____

Client Instructions: _____

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No. 273920

08101014

page ____ of ____

Client Name: ATC Associates
Address: Charlotte NC
Phone/Fax: 704 529 3200
Client Contact: Jake W. Email:
Project Name/No.:
Site Name: Pantry 585
Site Location: Anderson SC
Invoice To: Jake W. Ph:

SAMPLE ID	DATE	TIME	comp	grab	matrix (W=water S=soil O=oil SL=sludge X=other)	bottle (P=plastic A=amber glass G=glass V=vial X=other)	size (1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other)	pres. (1=HCl 2=HNO3 3=H2SO4 X=other)	Number of Containers	8260 BTEX, MTBE, and NAPH	1,2-DCA	EDB	Nitrates/sulfates and ferrous iron	8-oxygenates				
MW-7	10/23/08	13:30		X	W	X	X	X	8	X	X	X	X	X				
MW-22	↓	13:45		↓	↓	↓	↓	↓	↓	X	X	X	X	X				
MW-26	↓	14:00		↓	↓	↓	↓	↓	↓	X	X	X	X	X				
MW-27	↓	14:15		↓	↓	↓	↓	↓	↓	X	X	X	X	X				
MW-28	↓	14:30		↓	↓	↓	↓	↓	↓	X	X	X	X	X				

Requested Analysis

Client/Consultant Remarks: Day STAT if available

Laboratory remarks: (3w) (1) RL-CRM-8-(8) CIS On cooler RL-87-(FS3)

Intact? ☑ Y ☐ N
Ice? ☐ Y ☐ N
Temp: 4.0

Requested TAT

Contract ☐ 72hr ☐
24hr ☐ Standard ☒
48hr ☐
Other ☐ _____

Special Reporting Requirements Results: Fax ☐ Email ☐ PDF ☐
Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☐

Special Detection Limits (specify):

PM review (initial):

1. Relinquished by Sampler: Roy Szymanske	date 10/23/08	time	2. Received by: Fed ex
3. Relinquished by: Fed ex	date 10/24/08	time 900	4. Received by:
5. Relinquished by:	date 10/24/08	time 1000	6. Received by Laboratory: Sheila Graham

☐ 8880 Interchange Drive
Houston, TX 77054 (713) 660-0901

☐ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

☐ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

FedEx Express **US Airbill** — FedEx Tracking Number 8670 9128 0753

10/23/08

1 From This portion can be removed for Recipient's records.

Date 10/23/08 FedEx Tracking Number 867091280753

Sender's Name Roy Szymanske Phone 704 529 3200

Company ATC Associates

Address 3417-A Trade Park ct

Dept./Floor/Suite/Room

City Charlotte State NC ZIP 28217

2 Your Internal Billing Reference

3 To

Recipient's Name [illegible] Phone [illegible]

Company [illegible]

Recipient's Address [illegible]

We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept./Floor/Suite/Room

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City [illegible] State [illegible] ZIP 70583-5300

6088754346

RECIPIENT: PEEL HERE

fedex.com 1.800.GoFedEx 1.800.463.3339

PURPLE

10 No. 0215

4a Express Package Service — *Packages up to 150 lbs.*

- [X] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [X] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate.

* To most locations.

4b Express Freight Service — *Packages over 150 lbs.*

- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation: _____

** To most locations.

5 Packaging

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [X] Other

* Declared value limit $500.

6 Special Handling — Include FedEx address above

- [ ] **SATURDAY Delivery** — Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] **HOLD Weekday at FedEx Location** — Not available for FedEx First Overnight.
- [ ] **HOLD Saturday at FedEx Location** — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [X] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

0705

Total Packages ____ Total Weight 40 Credit Card Auth. ____

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

8 Residential Delivery Signature Options — If you require a signature, check Direct or Indirect.

- [X] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. *Fee applies.*

519

fedex.com 1.800.GoFedEx 1.800.463.3339

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

DEC 08 2009

MR BRENT PUZAK
PANTRY INC
PO BOX 1410
SANFORD NC 27331-1410

15tech
UST
DOCKET

Re: Assessment Plan Directive
81 Food Mart, 1502 East Greennville Street, Anderson, SC
UST Permit #12458
Release reported November 10, 1992
AFVR and Assessment report received March 31, 2009
Anderson County

Dear Mr. Puzak:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (SCDHEC) recognizes your commitment to continue work at this site utilizing your own contractor, ATC Associates, Incorporated. Based on the referenced report, the UST Division requires an assessment plan to define the extent of free phase product and petroleum Chemicals of Concern (CoC).

To determine what risk the referenced release may pose to the environment and public health, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of an Aggressive Fluid and Vapor Recovery (AFVR) event on monitoring well MW-30 plus the scope of work as outlined in the Tier II Assessment Guidance Document is necessary. The Tier II Assessment Guidance Document and Tier II Assessment forms are available online at http://www.scdhec.gov/eqc/ admin/html/..%5C..%5Cust%5Cpubs%5Ctier2.pdf and http://webserver03.dhec .sc.gov/ iieforms/d3527.pdf respectively.

Please have your contractor complete and submit the Assessment Component Cost Agreement and Assessment Plan Forms within thirty days of the date of this letter. Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. **Please note that approval from the Department must be issued before work begins**.

On all correspondence concerning this site, please reference UST permit number 12458. If there are any questions concerning this project, please contact me at (803) 896-6669, fax me at (803) 896-6245, or e-mail me at shradeaa@dhec.sc.gov.

Sincerely,

Arthur Shrader, Hydrogeologist
Assessment Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: ATC Associates, Inc., 400 Northeast Dr., Unit Q, Columbia, SC 29203
Technical file

D H E C
PROMOTE PROTECT PROSPER

Tier II Assessment Plan
Underground Storage Tank Program

RECEIVED
Art 5.
JAN 2 8 2010
UNDERGROUND STORAGE TANK PROGRAM

UST Permit #: 12458 County: Anderson Facility Name: 81 Food Mart
Facility Address: 1502 E. Greenville St. City: Anderson State: SC Zipcode:
Responsible Party: The Pantry Inc Address: 305 Cregson Drive
City: Cary State: NC Zipcode: 27511
No. USTs: Removed? (date: MM/DD/YYYY) Replaced? (date: MM/DD/YYYY)
Current use of facility/property:

Convenience store

Current property owner name: The Pantry Inc Address: 305 Cregson Dr.
City: Cary State: NC Zipcode: 27511

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.

A geoprobe will be used to collect groundwater samples for lab analysis prior to the monitor well installations

Permanent Monitoring Wells (estimate number and total completed depth)

# of shallow wells: 4 Total depth: 60

# of deep wells: Total depth:

Comments, if warranted:

10 Field Screening borings

Analyses

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

Field Screening: 10 BTEX, Naph, MTBE

Monitor wells: 4 BTEX, Naph, MTBE, Nitrate, Sulfate, Ferrous Iron, methane, filtered lead, 1-2 DCA & 8 oxygenates

Implementation Schedule *(Use MM/DD/YYYY format - Example 01/23/2004)*

Start up date: 3/15/10 (MM/DD/YYYY) Completion date: 6/15/10 (MM/DD/YYYY)

Report submittal date: 6/15/10 (MM/DD/YYYY)

DHEC 3527 (07/1999)

UST DOCKET
SCANNED
16 Technical

UST Permit #: 12458 Facility Name: 81 Food Mart

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	Legend with facility name and address, UST Permit number, date, and a bar scale
Location of property lines	Streets or highways (indicate names and numbers)
Location of buildings	Identification of located buildings
Paved areas on or adjacent to site	Location of all present and former ASTs and USTs
Previous soil sampling locations	Underground and above ground utilities on or adjacent to site
Previous monitoring well locations	Location of any other potential receptor

Aquifer Characterization

Pump test: ☐ Slug tests: ☐ (check one and provide explanation for choice)

NA

Small Volume Disposal Type and Method

Soil:

drummed for proper disposal

Purge water:

drummed for proper disposal

Additional comments:

D H E C

PROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

ASSESSMENT COMPONENT COST AGREEMENT
SOUTH CAROLINA
Department of Health and Environmental Control
Underground Storage Tank Program
State Underground Petroleum Environmental Response Bank Account

Facility Name 81 Food Mart

UST Permit # 12458 **Cost Agreement #** proposal

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**	1	x	$1,000.00	$1,000.00
4. **Mob/Demob**				
A. Equipment	3	x	$575.00	$1,725.00
B. Personnel	5	each x	$290.00	$1,450.00
C. Adverse Train Vehicle		x	$575.00	$0.00
5. **Soil Borings (hand auger)***		feet x	$14.00	$0.00
6. **Soil Borings (drilled) & Field Screening**				
A. Standard	150	feet x	$17.00	$2,550.00
B. Alternative, on-site		feet x	$12.50	$0.00
C. Fractured Rock		feet x	$27.50	$0.00
7. **Soil Leachability Model**		each x	$200.00	$0.00
8. **Abandonment***	150	feet x	$5.00	$750.00
9. **Well Installation***				
A. Water Table (hand auger)	60	feet x	$20.00	$1,200.00
B. Water Table (drilled)		feet x	$38.00	$0.00
C. Telescoping		feet x	$58.00	$0.00
D. Rock Drilling		feet x	$58.00	$0.00
E. 2" Rock Coring		feet x	$44.10	$0.00
F. 4" Rock Coring		feet x	$50.40	$0.00
G. multi sampling port/screen		feet x	$47.20	$0.00
10. **Groundwater Sample Collection**				
A.Groundwater	4	samples x	$55.00	$220.00
B. Air Vapor		samples x	$90.00	$0.00
C. Water Supply		samples x	$25.00	$0.00
D. Groundwater No Purge		samples x	$35.00	$0.00
E. Gauge Well only		per well x	$20.00	$0.00
F. Sample Below Product		samples x	$50.00	$0.00
G. Passive Diffusion Bag		each x	$40.00	$0.00
11. **Analyses-Groundwater** (see Analytical Methodology for site-specific analyses)				
A. BTEX+Naphth.+MTBE	14	samples x	$100.00	$1,400.00
B. Rush BTEX analysis		samples x	$120.00	$0.00
D. PAH's		samples x	$120.00	$0.00
E. Lead		samples x	$20.00	$0.00
F. EDB		samples x	$55.00	$0.00
G. 8 RCRA Metals		samples x	$140.00	$0.00
H.TPH (9070)		samples x	$55.00	$0.00
J. BOD		samples x	$40.00	$0.00
K. Nitrate	4	samples x	$20.00	$80.00
L. Sulfate	4	samples x	$20.00	$80.00
M. Ferrous Iron	4	samples x	$20.00	$80.00
N. Methane	4	samples x	$110.00	$440.00
O. Organic Lead		samples x	$100.00	$0.00
P. 8 Oxygenates	4	samples x	$85.00	$340.00
AA. Filtered Lead	4	samples x	$46.00	$184.00
BB. 1,2-DCA	4	samples x	$10.75	$43.00

11. **Analyses-Soil**				
Q. BTEX + Naphth.		samples x	$100.00	$0.00
R. PAH's		samples x	$120.00	$0.00
S. 8 RCRA Metals		samples x	$150.00	$0.00
T. TPH (9071)		samples x	$60.00	$0.00
U. TPH (3550B/8015B)		samples x	$65.00	$0.00
V. TPH (5030B/8015B)		samples x	$65.00	$0.00
W. Grain size/hydrometer		samples x	$75.00	$0.00
X. Total Organic Carbon		samples x	$35.00	$0.00
11. **Analyses-Air**				
Y. BTEX + Naphthalene		samples x	$247.50	$0.00
Z. Hydrocarbon Fuel Identification		samples x	$620.00	$0.00
12. **Aquifer Characterization***				
A. Pumping Test		hours x	$120.00	$0.00
B. Slug Test*		tests x	$150.00	$0.00
C. Fractured Rock		tests x	$500.00	$0.00
13. **Free Product Recovery Rate Test***		tests x	$120.00	$0.00
14. **Fate/Transport Modeling**				
A. Mathematical Model		each x	$300.00	$0.00
B. Computer Model		each x	$500.00	$0.00
15. **Risk Evaluation**				
A. Tier I Risk Evaluation		x	$301.00	$0.00
B. Tier II Risk Evaluation		x	$500.00	$0.00
16. **Subsequent Survey***		x	$260.00	$0.00
17. **Disposal***				
A. Wastewater				
1. Purging/Sampling	10	drums x	$90.00	$900.00
2. Pumping Test/EFR		gallons x	$0.60	$0.00
B. Free Product		drums x	$110.00	$0.00
C. Soil (Treatment/Disposal)		drum/ton x	$50.00	$0.00
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 3667 form)**				
23. **EFR**				
A. 8-hour Event*		each x	$3,000.00	$0.00
B. Additional Hour		per hour x	$204.00	$0.00
C. Off-gas treatment		per hour x	$35.00	$0.00
24. **Granulated Activated Carbon (GAC) filter system installation & service:**				
A. New GAC System Installation*		each x	$2,500.00	$0.00
B. Refurbished GAC Sys. Install*		each x	$850.00	$0.00
C. Filter replacement/removal*		each x	$450.00	$0.00
D. System removal, cleaning, & refurbishment*		each x	$450.00	$0.00
E. GAC System housing		each x	$450.00	$0.00
F. In-line particulate filter		each x	$140.00	$0.00
G. Additional piping & fittings		feet x	$4.00	$0.00
25. **Well Repair**				
A. Additional Copies of Report		each x	$25.00	$0.00
B. Repair 2x2 MW pad		each x	$100.00	$0.00
C. Repair 4x4 MW pad		each x	$150.00	$0.00
D. Repair well vault		each x	$225.00	$0.00
E. Replace well cover & 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** and Coordination	15%	x	$12,542.00	$1,881.30
TOTAL				$14,423.30

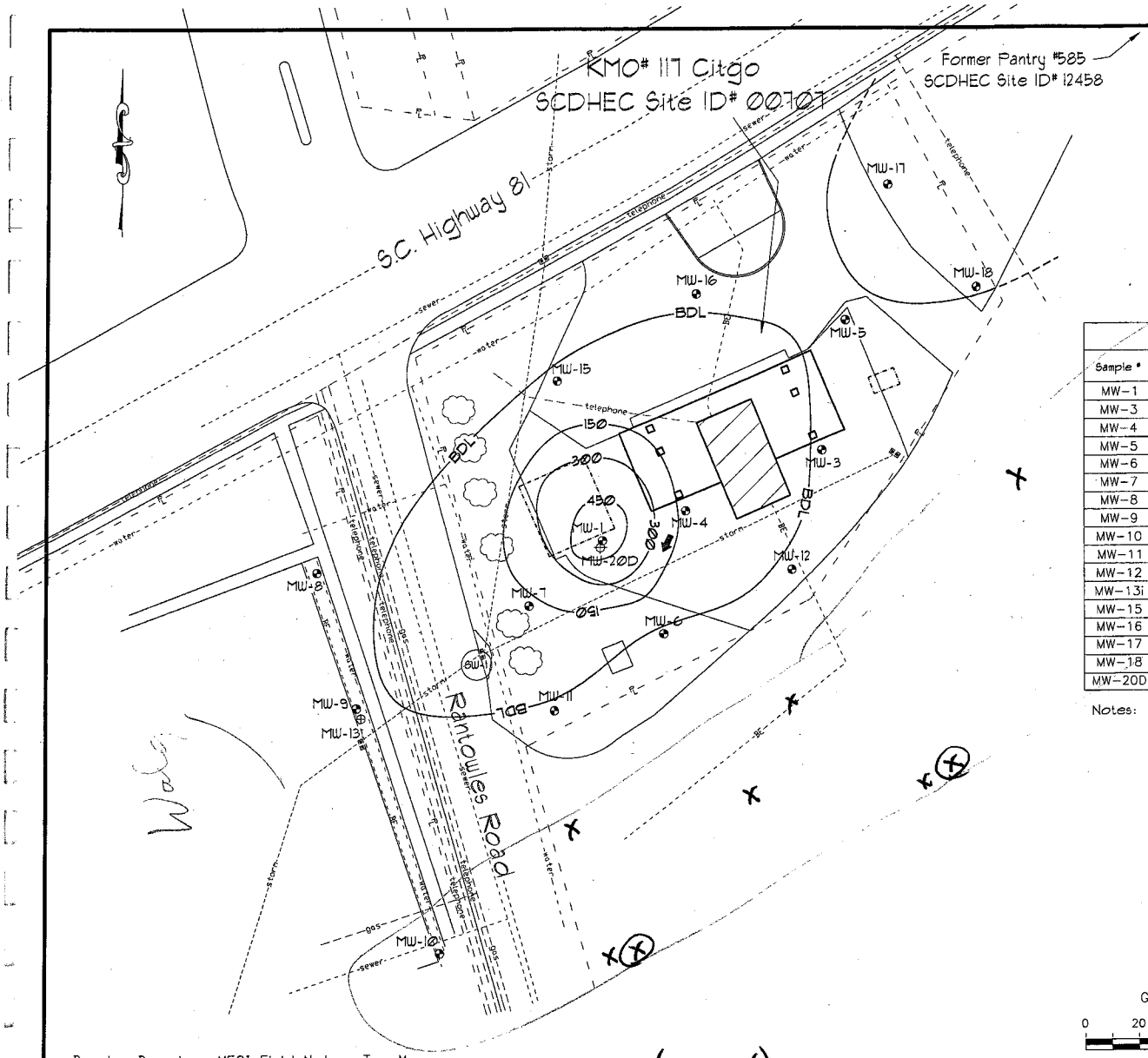
*The appropriate mobilization cost can be added to complete these tasks, as necessary

Map of 1502 E Greenville St, Anderson, SC 29621-2005

YAHOO!

When using any driving directions or map, it's a good idea to do a reality check and make sure the road still exists, watch out for construction, and follow all traffic safety precautions. This is only to be used as an aid in planning.

× proposed Field Screening Point
⊗ proposed monitor well Location



Explanation:

- Location of Single Cased Monitoring Well
- Location of Double Cased Monitoring Well
- Location of Single Cased Deep Monitoring Well
- Estimated Groundwater Flow Direction
- Estimated Location of Existing Underground Storage Tanks
- Total BTEX Concentration Isopleth (ug/l)

COC Concentration Data

Sample #	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Total Xylenes (ug/l)	Total BTEX (ug/l)	MTBE (ug/l)	Naphthalene (ug/l)	EDB (ug/l)
MW-1	213	24.9J	155	94.3J	487.2	47.6J	212	<0.019
MW-3	<5.0	<5.0	<5.0	<10.0	BDL	14.4	<5.0	<0.019
MW-4	132	<5.0	5.7	<10.0	137.7	435	9.4	<0.020
MW-5	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<0.019
MW-6	<5.0	<5.0	<5.0	<10.0	BDL	11.3	<5.0	<0.020
MW-7	1.2J	<5.0	<5.0	<10.0	1.2	2.7J	29.4	<0.020
MW-8	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<0.020
MW-9	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<0.019
MW-10	<5.0	<5.0	<5.0	<10.0	BDL	67.7	<5.0	<0.019
MW-11	<5.0	<5.0	<5.0	<10.0	BDL	4.7J	<5.0	<0.019
MW-12	<5.0	<5.0	<5.0	<10.0	BDL	57.0	<5.0	<0.019
MW-13i	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<0.020
MW-15	1.8J	<5.0	<5.0	<10.0	1.8	<5.0	<5.0	<0.019
MW-16	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<0.020
MW-17	3.1J	9.8J	15.7	28.5	57.1	<10.0	21.7	<0.020
MW-18	1.3J	<5.0	<5.0	<10.0	1.3	<5.0	<5.0	<0.020
MW-20D	<5.0	<5.0	<5.0	<10.0	BDL	<5.0	<5.0	<0.019

Notes: Groundwater samples collected on November 13, 2009

Contour Interval = 150 ug/l

Deep wells not used in contouring

BDL = Below Detection Limits

Contours Computer Generated using Surfer by Golden Graphics and Modified by MECI Personnel.

GRAPHIC SCALE

0 20 40 60 80

1IN = 40FT

ALL LOCATIONS ARE APPROXIMATE.

Drawing Based on MECI Field Notes, Tax Maps and a RLS Survey of the Site by Jay S. Joshi dated November 16, 2009.

x FS point (proposed)
⊗ proposed monitoring well

Total BTEX Isopleth Map

KMO# 117 Citgo
Anderson, South Carolina
SCDHEC Site ID 00707

Midlands Environmental Consultants, Inc.

JOB NO. 06-979
DATE December 4, 2009
FIGURE 8

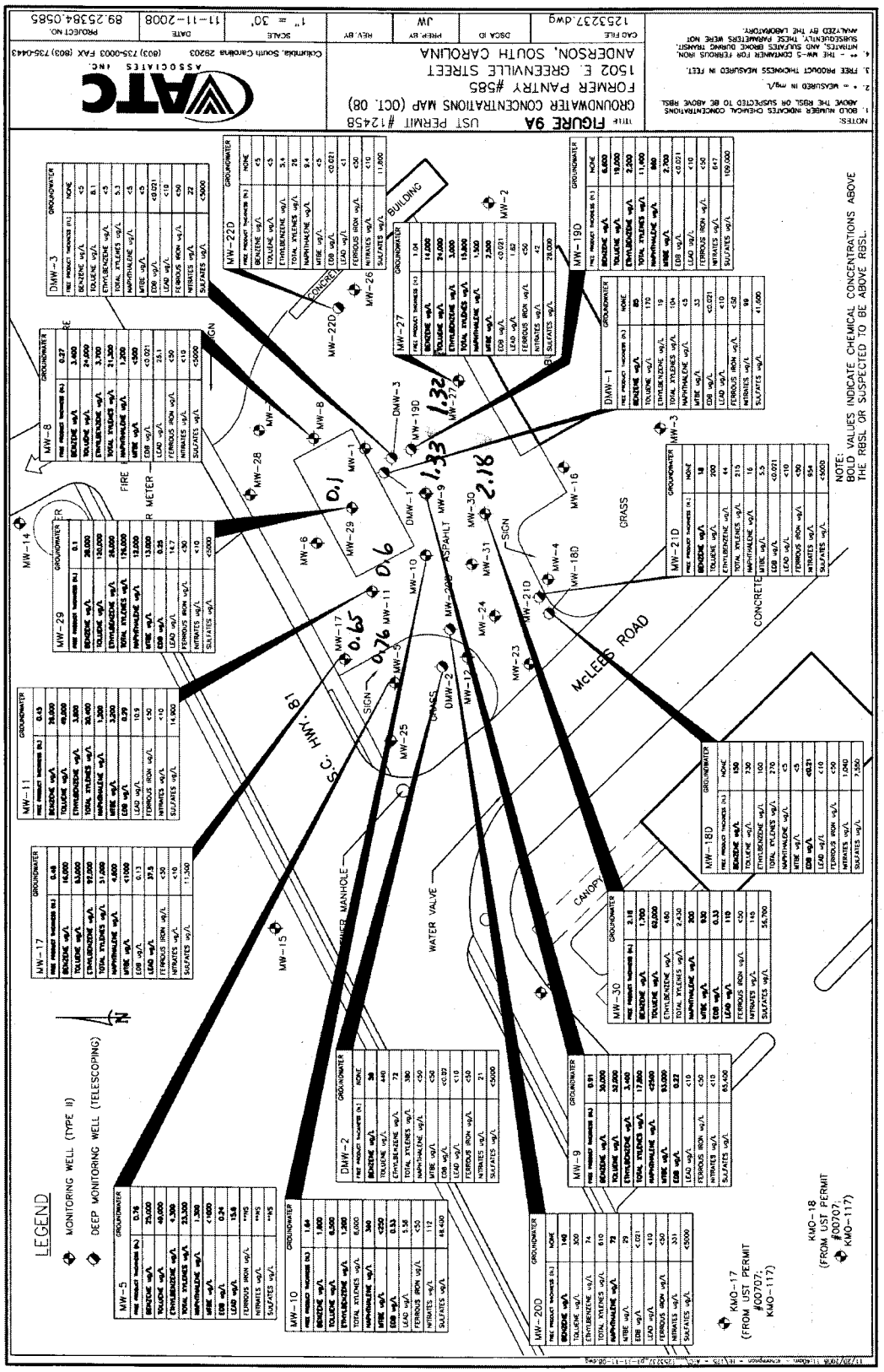

title FIGURE 9A UST PERMIT #12458
GROUNDWATER CONCENTRATIONS MAP (OCT. 08)
FORMER PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA
ATC ASSOCIATES INC.
Columbia, South Carolina 29203 (803) 735-0003 FAX (803) 735-0443
CAD FILE 1253237.dwg
DSCA ID
PREP. BY
REV. BY JW
SCALE 1" = 30'
DATE 11-11-2008
PROJECT NO. 89.25384.0585
NOTES:
1. BOLD NUMBER INDICATES CHEMICAL CONCENTRATIONS ABOVE THE RBSL OR SUSPECTED TO BE ABOVE RBSL.
2. - = MEASURED IN mg/L
3. FREE PRODUCT THICKNESS MEASURED IN FEET.
4. * - THE MW-5 COMPANIER FOR FERROUS IRON, NITRATES, AND SULFATES BEING DURING TRANSIT, SUBSEQUENTLY, THESE PARAMETERS WERE NOT ANALYZED BY THE LABORATORY.
LEGEND
MONITORING WELL (TYPE II)
DEEP MONITORING WELL (TELESCOPING)
NOTE: BOLD VALUES INDICATE CHEMICAL CONCENTRATIONS ABOVE THE RBSL OR SUSPECTED TO BE ABOVE RBSL.
McLEES ROAD
HWY. 81
GRASS
CONCRETE
ASPHALT
BUILDING
CANOPY
WATER VALVE
MANHOLE
KMO-18 (FROM UST PERMIT #00707; KMO-117)
KMO-17 (FROM UST PERMIT #00707; KMO-117)

TABLE 4
Groundwater Elevation Data (October 2008)
Former Pantry # 585 / 1502 East Greenville St., South Carolina

Monitoring Well ID	Gauging Date	Top of Casing Elevation (ft)	Depth to Free Product (ft)	Depth to Water (ft btoc)	Free Product Thickness (feet)	Depth of Well (feet)	Well Screen Interval (feet)	Water Table Elevation (feet) *Corrected for FP
MW-1	10/15/08	94.87	nd	13.20	nd	25	unknown	81.67
MW-2	10/15/08	94.78	nd	12.58	nd	20	unknown	82.20
MW-3	10/15/08	91.60	nd	9.96	nd	15	unknown	81.64
MW-4	10/15/08	91.77	nd	10.61	nd	15	5-15	81.16
MW-5	10/15/08	94.34	**12.89**	13.65	**0.76**	15	5-15	81.28
MW-6	10/15/08	95.34	nd	13.88	nd	18	8-18	81.46
MW-7	10/15/08	95.80	nd	11.06	nd	15	5-15	84.74
MW-8	10/15/08	95.06	**11.28**	11.55	**0.27**	17	7-17	83.72
MW-9	10/15/08	94.36	**12.59**	13.50	**0.91**	17	7-17	81.57
MW-10	10/15/08	94.29	**12.93**	14.26	**1.33**	17	7-17	81.07
MW-11	10/15/08	94.71	**13.07**	13.67	**0.60**	17	7-17	81.51
MW-12	10/15/08	92.18	nd	11.82	nd	17	7-17	80.36
MW-13	10/15/08	90.12	nd	10.13	nd	13	3-13	79.99
MW-14	10/16/08	101.68	nd	15.32	nd	25	5-25	86.36
MW-15	10/16/08	94.04	nd	12.83	nd	25	5-25	81.21
MW-16	10/16/08	93.49	nd	13.31	nd	20	5-20	80.18
MW-17	10/16/08	94.95	**13.40**	14.05	**0.65**	20	5-20	81.41
MW-18D	10/16/08	90.98	nd	10.82	nd	80	75-80	80.16
MW-19D	10/16/08	94.79	nd	15.82	nd	47	42-47	78.97
MW-20D	10/16/08	92.8	nd	12.30	nd	47	42-47	80.50
MW-21D	10/16/08	91.05	nd	10.20	nd	47	42-47	80.85
MW-22D	10/16/08	94.78	nd	10.23	nd	47	42-47	84.55
MW-23	10/16/08	90.79	nd	10.01	nd	20	5-20	80.78
MW-24	10/16/08	91.49	nd	10.51	nd	20	5-20	80.98
MW-25	10/16/08	94.11	nd	13.34	nd	20	5-20	80.77
MW-26	10/17/08	94.62	nd	9.98	nd	20	5-20	84.64
MW-27	10/17/08	94.41	**12.39**	13.71	**1.32**	20	5-20	81.73
MW-28	10/17/08	96.08	nd	11.85	nd	20	5-20	84.23
MW-29	10/17/08	94.93	**13.32**	13.42	**0.10**	20	5-20	81.59
MW-30	10/17/08	93.68	**11.92**	14.10	**2.18**	20	5-20	81.28
MW-31	10/17/08	92.97	nd	11.85	nd	20	5-20	81.12
DMW-1	10/17/08	94.71	nd	13.07	nd	78	73-78	81.64
DMW-2	10/17/08	NM	nd	13.47	nd	80	75-80	NM
DMW-3	10/17/08	94.98	nd	29.88	nd	135	130-135	65.10
KMO-17	10/17/08	87.79	nd	9.12	nd	15	unknown	78.67
KMO-18	10/17/08	85.93	nd	8.10	nd	15	unknown	77.83

nd - Free product not detected or amount of free product not measurable
ft btoc - feet below top of casing
Top of casing elevations are based on an assumed elevation of 100 feet above mean sea level.
ND - Not Detected
NM - Not Measured
*Corrected for Free Product - Depth to water elevation has been adjusted using the following formula to account for weight of free-product:
GW Elevation = TOC Elevation - (Actual Water Level Meaurement - (Product Thickness x 0.78))

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

FEB 1 0 2010

UST DOCKET 17tech

MR BRENT PUZAK
PANTRY INC
PO BOX 1410
SANFORD NC 27331-1410

Re: Assessment Report Directive
81 Food Mart (Former Pantry #585), 1502 East Greenville Street, Anderson, SC
UST Permit #12458; CA #38230: MWA #UMW-23466
Release reported November 10, 1992
AFVR and Tier II Report received March 31, 2009
Tier II Assessment Plan and Cost Proposal received January 28, 2010
Anderson County

Dear Mr. Puzak:

The Underground Storage Tank (UST) Division of the South Carolina Department of Health and Environmental Control (SCDHEC) recognizes your commitment to continue work at this site utilizing your own contractor. The UST Division has reviewed the referenced Tier II Assessment Plan and cost agreement submitted by ATC Associates Columbia. The assessment should be conducted in accordance with the Tier II Assessment guidance document and must be conducted in compliance with all applicable regulations. All shallow wells are to be installed with screen intervals that bracket the water table. The Tier II assessment document and appendices may be obtained from our website at http://www.scdhec.gov/environment/lwm/html/ust_guidance_docs.htm.

Assessment activities at the site should begin immediately upon receipt of this letter. Cost agreement number 38230 has been approved for the amount shown on the enclosed cost agreement form. Please be aware that the February 1, 2006 SUPERB Allowable Costs sheet states that "If vertical and horizontal extent of chemicals of concern are not fully defined by this tier report, additional mobilizations may not be approved by the Department." Therefore, equipment mobilization costs have not been approved for this scope of work. **Please contact the department prior to well installation for concurrence regarding the final well locations**. No-purge sampling is required for previously installed monitoring wells (except deep wells) where the screens bracket the water table.

Please note the following adjustments to the submitted cost agreement:

- Equipment mobilizations were deleted, as the plume was not previously defined.
- Personnel mobilizations were reduced from five to four.
- Monitoring well installation has been changed from hand auger to drilled (Item 9.A. to 9.B.). One shallow well has been added. This well should be installed in the impacted area south of MW-12 so the plume can be modeled.
- Deep monitoring well has been approved for 63 feet **(if necessary)** for a telescoping well adjacent to the added shallow well to ensure the vertical extent of the plume is defined. Please note that the screens of the permanent monitoring wells must bracket the water table, and all monitoring well locations must be technically justified or installation costs will not be approved. Field screening points converted to wells will be compensated at the permanent well installation rate.
- BTEX, naphthalene and MtBE laboratory analyses has been increased to include analyses of MW-6, MW-10, MW-11, MW-12, MW-17 and MW-18 associated with KMO #117 (UST Permit # 00707).

- The comprehensive survey should include the monitoring wells associated with former Pantry #585 and KMO 117 (UST Permit #00707).

ATC Columbia office can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Please note that all applicable South Carolina certification requirements apply to the laboratory services, well installation, and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

A Report of Findings and the invoice are due within 90 days from the date of this letter. An interim well drilling invoice may be submitted for this scope of work. If the invoice and completed report are 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. Please note, if unnecessary dilutions are completed resulting in reporting limits of individual Chemicals of Concern (CoC) in excess of Risk-Based Screening Levels (RBSLs), the Department may deny payment for any non-detect analysis where the reporting limit exceeds the RBSL. The UST Division encourages the use of 'J' values as necessary.

Please note that you and/or your contractor are responsible for obtaining all off-site access agreements and/or encroachment permits necessary for this scope of work.

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 the Division is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the Department for the cost to be paid. 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. Further, SCDHEC reserves the right to question and/or reject costs if deemed unreasonable. The SCDHEC reserves the right to audit project records at any time during the project or after completion of work.

The Department 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 COC concentrations based on laboratory analysis are below Risk Based Screening Levels (RBSLs), 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 regarding this site and scope of work, please reference UST Permit number12458. If you have any questions concerning this correspondence, please contact me at (803) 896-6669, fax me at (803) 896-6245, or e-mail me at shradeaa@dhec.sc.gov.

Sincerely,

Arthur Shrader, Hydrogeologist
Assessment Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc.: Approved Cost Agreement
Monitoring Well Approval (MWA)(copy)

cc: ATC Associates, 400 Northwest Dr., STE Q, Columbia, SC 29203 (with enc.)
Technical File (with enc.)

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

Monitoring Well Approval

Approval is hereby granted to:	ATC Associates, Incorporated
(On behalf of):	The Pantry
Facility:	81 Food Mart, 1502 East Greenville Street, Anderson, SC
UST Permit Number:	12458
County:	Anderson

This approval is for the installation of ten temporary, five shallow, and one deep 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 Department shall be completed and submitted to the Department within 30 days after well completion or abandonment unless another schedule has been approved by the Department. 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 Department within 30 days of receipt of laboratory results unless another schedule has been approved by the Department as required by R.61-71.H.1.d.

5. If any of the information provided to the Department changes, notification to Arthur Shrader the project manager (tel: (803) 896-6669, or e-mail: shradeaa@dhec.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. Departmental 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 April 26, 2002. A copy of this approval should be on the site during well installation.

Date of Issuance: **February 1, 2010** **Approval #:** **UMW-23466**

Arthur Shtader, Hydrogeologist
Assessment Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

Approved Cost Agreement 38230

Facility: 12458 81 FOOD MART
SHRADEAA
PO Number:

Task / Description	Categories	Item Description	Qty / Pct	Unit Price	Amount
01 PLAN					
		A PLAN PREPARATION	1.0000	100.00	100.00
03 COMPREHENSIVE SURVEY					
		COMPREHENSIVE SURVEY	1.0000	1,000.00	1,000.00
04 MOB/DEMOB					
		B PERSONNEL	4.0000	290.00	1,160.00
06 SOIL BORINGS (DRILLED)					
		A SOIL BORINGS & FLD SCREENING	150.0000	17.00	2,550.00
08 ABANDONMENT					
		ABANDONMENT	150.0000	5.00	750.00
09 WELL INSTALLATION					
		B WATER TABLE (DRILLED)	75.0000	38.00	2,850.00
		C TELESCOPING	43.0000	58.00	2,494.00
10 SAMPLE COLLECTION					
		A GROUND WATER	6.0000	55.00	330.00
		D GROUNDWATER NO-PURGE	6.0000	35.00	210.00
11 ANALYSES					
	GW GROUNDWATER	A BTEX+NAPTH+MTBE	22.0000	100.00	2,200.00
		BB 1,2-DCA	6.0000	10.75	64.50
		E LEAD	6.0000	20.00	120.00
		F EDB	6.0000	55.00	330.00
		K NITRATE	6.0000	20.00	120.00
		L SULFATE	6.0000	20.00	120.00
		M FERROUS IRON	6.0000	20.00	120.00
		P 8 OXYGENATES	22.0000	85.00	1,870.00
17 DISPOSAL					
		A1 WASTEWATER - PURGING/SAMPLING	12.0000	90.00	1,080.00
		C SOIL (TREATMENT/DISPOSAL)	3.0000	50.00	150.00
19 RPT/PROJECT MNGT & COORDINATIO					
		PCT PERCENT	0.1500	17,618.50	2,642.78
			Total Amount		20,261.28

From: Art A. Shrader
To: Fred Lyke
Date: 6/8/2010 4:48 PM
Subject: Property Access at 81 Food Mart (UST Permit # 12458)

Fred,

Sorry I was in a meeting when you called.

I understand that Brent with the Pantry is going to get property access to complete the assessment.

Thanks
Art

18tech
UST
DOCKET

From: "Chad Wash" <chad.wash@atcassociates.com>
To: "Art A. Shrader" <Shradeaa@dhec.sc.gov>
CC: "Fred Lyke" <fred.lyke@atcassociates.com>, <lyke89@atc-enviro.com>
Date: 5/4/2010 8:31 AM
Subject: Pantry #585 - UST #12458
Attachments: 20100504072238862.pdf

We tried to access the property and spoke with the owner on more than one occasion. The property access document is attached (signed - access denied). Please contact me with any questions you may have.

Thanks,

Chad

Chad L. Wash | ATC Associates Inc. | Columbia, SC
(803) 735-0003 direct | (803) 760-8797 mobile

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Engineers

400 Northeast Drive, Unit O
Columbia, SC 29203
www.atcassociates.com
803-735-0003
Fax 803-735-0443

February 15, 2010

Commercial Holdings, LLC
1033 Kensington Lake Drive
Easley, South Carolina 29642

Re: Environmental Assessment
Former Pantry #585 (81 Food Mart)
1502 East Greenville Street
Anderson, South Carolina
Anderson County
UST Permit #12458

Dear property owner:

ATC Associates Inc. (ATC) is conducting an Environmental Assessment at the Former Pantry #585 (81 Food Mart) store on behalf of the South Carolina Department of Health and Environmental Control (SCDHEC). In order to conduct the assessment, the installation of a groundwater monitor well on your property (Parcel# 148-08-02-001) located southwest of the Pantry #585 Store, is necessary.

You, as the property owner, will not be held responsible or held liable for any damages or expenses for injury to persons or property while ATC is on the premises. SCDHEC has requested the completion of this assessment in a timely manner and believes it is in your best interest to allow the monitor well installation. If you have any questions regarding SCDHEC authorization to conduct these activities, please contact Mr. Arthur Shrader, SCDHEC Project Manager, at (803) 896-6669 and reference UST Permit #17885.

Please provide your authorization and approval by signing below and return the signature page via US mail, fax, and/or e-mail as soon as possible. Acknowledgment of this form is required by SCDHEC. Denial of site access will be forwarded to SCDHEC for their pursuit of site access.

February 15, 2010
Page 2 of 2

If you have any questions or would like to further discuss any aspect of this site access request, please contact me at (803) 735-0003 or Mr. Arthur Shrader, SCDHEC Project Manager, at (803) 896-6669.

Sincerely,
ATC Associates Inc.

Chad L. Wash
chad.wash@atcassociates.com
(803) 735-0003

Access approved

Jimmy Williams
Commercial Holdings, L.L.C.

Access denied

From: Art A. Shrader
To: Wash, Chad
Date: 2/23/2010 9:31 AM
Subject: RE: FW: Pantry #585 - UST #12458

Property Access

Denied Access by Jimmy Williams
Commercial Holdings LLC

Chad,

Please send me a copy of the signed letter denying access for our files.

Please get The Pantry involved to obtain access.
Our current policy from Chris Doll is, is if we (DHEC) obtain property access then we (DHEC) will manage the project using our contractor (Midlands in this case).

Please let me know if The Pantry would like to transfer this release to the State Lead option so I can send them the state lead option form.

Thanks
Art

>>> "Chad Wash" <chad.wash@atcassociates.com> 2/23/2010 9:10 AM >>>
Art,

FYI, access to the site has been denied (verbal/written) by the property owner(s).

Thaks,
Chad

Chad L. Wash | ATC Associates Inc. | Columbia, SC
(803) 735-0003 direct | (803) 760-8797 mobile

-----Original Message-----
From: Art A. Shrader [mailto:Shradeaa@dhec.sc.gov]
Sent: Wednesday, February 17, 2010 8:38 AM
To: Chad Wash
Cc: Fred Lyke
Subject: Re: FW: Pantry #585 - UST #12458

Chad,

Anderson County property record is available at
http://acpass.andersoncountysc.org/index.htm

Hope that helps.
Art

>>> "Chad Wash" <chad.wash@atcassociates.com> 2/15/2010 10:57 AM >>>

Art,

Do you have any information from previous reports for the adjacent property owner in the immediate area surrounding "Sonic" restaurant, south and west? Site access could be time-consuming w/ no on-line database for Anderson County.

Thanks,
Chad

Chad L. Wash | ATC Associates Inc. | Columbia, SC

(803) 735-0003 direct | (803) 760-8797 mobile

-----Original Message-----
From: Chad Wash
Sent: Friday, February 12, 2010 9:07 AM
To: 'Art A. Shrader'
Subject: RE: Pantry #585 - UST #12458

Art,

I have the proposed map (1/28/10) with the approved monitor well locations, this will be fine.

Thanks,
Chad

Chad L. Wash | ATC Associates Inc. | Columbia, SC
(803) 735-0003 direct | (803) 760-8797 mobile

-----Original Message-----
From: Art A. Shrader [mailto:Shradeaa@dhec.sc.gov]
Sent: Friday, February 12, 2010 6:39 AM
To: Chad Wash
Subject: Re: Pantry #585 - UST #12458

Chad,

I'm not sure what is a similar map.

Do you need a copy of the site map with the well locations proposed by ATC with the assessment plan I received 1/28/10?

I'm in Bamberg County today.
I'm back in the office on Tuesday.

Art

>>> "Chad Wash" <chad.wash@atcassociates.com> 2/11/2010 5:43 PM >>>
Art,

Do you have a similar map of the proposed monitor wells to be installed on this site? I appreciate it.

Thanks,
Chad

Chad L. Wash | ATC Associates Inc. | Columbia, SC
(803) 735-0003 direct | (803) 760-8797 mobile

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

UST DOCKET

OCT 13 2010 19 tel

CERTIFIED MAIL
91 7108 2133 3934 4767 6772

MR BRENT PUZAK
PANTRY INC
PO BOX 1410
SANFORD NC 27331-1410

Re: **Notice of Alleged Violation**
81 Food Mart (Former Pantry #585), 1502 East Greenville Street, Anderson, SC
UST Permit #12458; CA #38230: MWA #UMW-23466
Release reported November 10, 1992
Tier II Assessment Plan and Cost Proposal received January 28, 2010
Assessment Report Directive dated February 10, 2010
Anderson County

Dear Mr. Puzak:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control directed you in February 2010 to complete an assessment to define the extent of the plume with the report due in May 2010. A copy of the directive is enclosed for your reference. An extension was granted in June 8, 2010 until September 30, 2010 at the request of your contractor. To date the required report has not been received. In accordance with Section 280.65 of the South Carolina Underground Storage Tank Regulations, the assessment must be conducted as chemicals of concern are above the risk-based-screening levels.

Implementation of this scope of work should proceed upon receipt of this correspondence. **Please submit the report on or before November 30, 2010. Should you not submit the report on or before this date, this office will initiate further enforcement action.**

On all correspondence regarding this site and scope of work, please reference UST Permit number12458. If you have any questions concerning this correspondence, please contact me at (803) 896-6669, fax me at (803) 896-6245, or e-mail me at shradeaa@dhec.sc.gov.

Sincerely,

Arthur Shrader, Hydrogeologist
Assessment Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc.: UST Assessment Directive dated February 10, 2010

cc: ATC Associates, 400 Northwest Dr., STE Q, Columbia, SC 29203 (with enc.)
ATC Columbia Contractor Certification File (with enc.)
Technical File (without enc.)

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

MR JIMMY WILLIAMS
COMMERCIAL HOLDINGS
1033 KENSINGTON LAKE DR
EASLEY SC 29642-9365

DEC 02 2010

2 tech
UST
DOCKET

Re: Request for Property Right of Entry
Former 81 Food Mart, 1502 East Greenville Street, Anderson, SC
UST Permit # 12458
Access to Property at 1520 East Greenville Street, Anderson, SC
Tax ID # 148-08-02-001
Anderson County

Dear Mr. Williams:

The Underground Storage Tank (UST) Division of the South Carolina Department of Health and Environmental Control has directed The Pantry as the party responsible for the release at the Former 81 Food Mart, to perform work to assess a reported petroleum release. ATC Associates, Incorporated is currently conducting the environmental assessment for The Pantry. ATC Associates, Incorporated requires access to your property in order to install temporary screening points at this time, to determine if any petroleum chemicals of concern have migrated onto your property. This office understands that Dee Deberry from ATC Associates Columbia, South Carolina office has e-mailed you concerning property access. The locations of the proposed screening points can be adjusted to meet your approval. ATC Associates, Incorporated will immediately repair any damage to your property created by the installation or abandonment of the screening points. All assessment work will be conducted at no cost to you or a future landowner.

The screening points will be installed under the supervision of a licensed well driller. The temporary screening points will be installed by a Geoprobe™ drill and will be used to sample soil and groundwater. They will be properly abandoned upon completion, and no permanent effects will remain on your property.

The Department appreciates your cooperation in allowing property access so the extent of petroleum chemicals of concern can be determined. Please reference UST permit number 12458 on any correspondence concerning this matter. If you have any questions, please contact me at (803) 896-6669. Technical questions about locations for screening points and dates of work should be addressed to Mr. Fred Lyke with ATC Associates Incorporated at (803) 735-0003.

Sincerely,

Arthur Shrader, Hydrogeologist
Assessment Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Mr. Puzak, The Pantry, PO Box 8019, Cary, NC 27512
ATC Associates, 400 Northeast Dr, Unit Q, Columbia, SC 29203
Technical File

Art A. Shrader - FW: Access agreement #585 Anderson, SC

UST Permit 12458
Access Agreement

From: "Fred Lyke" <fred.lyke@atcassociates.com>
To: "Art A. Shrader" <Shradeaa@dhec.sc.gov>
Date: 11/30/2010 2:02 PM
Subject: FW: Access agreement #585 Anderson, SC
CC: "Dee Deberry" <Dee.Deberry@atcassociates.com>

Art,
Please read the email trail below regarding the status of offsite access at the Pantry 585 Anderson site. As soon as we receive the signed letter (for borings only, no permanent monitor well installations) I will let you know. Sounds like we will be able to schedule and have results by the time you come back from vacation.

Fred Lyke, P.G. | Branch Manager and Senior Geologist|
ATC Associates Inc.| Columbia, SC
803-735-0003 office | 803-767-0826 mobile

400 Northeast Drive, Unit Q | Columbia, SC 29203
803-735-0003 tel | 803-735-0443 fax | www.atcassociates.com
Fred.Lyke@atcassociates.com

Filed
UST
DOCKET

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From: Dee Deberry
Sent: Tuesday, November 30, 2010 1:52 PM
To: Jimmy Williams
Cc: Fred Lyke; brent.puzak@thepantry.com
Subject: RE: Access agreement #585 Anderson, SC

Sounds like a plan,

Thank you,
Dee

Dee DeBerry | **ATC Associates Inc.** | **Columbia, SC**
803-735-0003 office | 803-920=2625 mobile

400 Northeast Drive | Suite Q | Columbia, South Carolina 29203
803-735-0003 tel | 803-735-0443 fax | www.atcassociates.com

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From: Jimmy Williams [mailto:commercialholdings@yahoo.com]
Sent: Tuesday, November 30, 2010 1:50 PM
To: Dee Deberry
Subject: Re: Access agreement #585 Anderson, SC

Dee,

We will fax you the authorization within the next few days. Also, we would like to receive a report or status of the borings.

Thank You,
Jimmy Williams
Commercial Holdings
1033 Kensington Lake Dr.
Easley, SC 29642

864.269.7590 office
864.923.3675 mobile
864.220.1403 fax

From: Dee Deberry <Dee.Deberry@atcassociates.com>
To: Jimmy Williams <commercialholdings@yahoo.com>
Cc: Fred Lyke <fred.lyke@atcassociates.com>; brent.puzak@thepantry.com
Sent: Tue, November 30, 2010 12:46:47 PM
Subject: RE: Access agreement #585 Anderson, SC

Jimmy,

Fred Lyke in our office spoke with Art Shrader-project manager at DHEC this morning regarding your concerns.

Mr.. Shrader stated he will accept the report of findings the end of this month, which means the borings will need to be conducted next week 12.6.10 or the week of 12.13.10 at the latest.

Ten borings may be necessary, but if we can stop at four-six, we will. The amount will depend on the findings, but ***up to ten*** is an estimate. These borings will be grouted and finished at ground surface with asphalt patch to match surrounding parking lot

We will schedule the field activities, upon receipt of your authorization to proceed. Please sign site access letter and return as soon as possible so that we can schedule site activities.

I will be in the office the rest of the day and can be reached at 866.735.0003 if you have any questions.

Thank you,
Dee

Dee DeBerry | **ATC Associates Inc.** | **Columbia, SC**
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From: Jimmy Williams [mailto:commercialholdings@yahoo.com]
Sent: Monday, November 29, 2010 4:44 PM
To: Dee Deberry; Fred Lyke
Cc: brent.puzak@thepantry.com
Subject: Re: Access agreement #585 Anderson, SC

Also, is ten borings necessary?

Jimmy Williams
Commercial Holdings
1033 Kensington Lake Dr.
Easley, SC 29642

864.269.7590 office
864.923.3675 mobile
864.220.1403 fax

From: Dee Deberry <Dee.Deberry@atcassociates.com>
To: Fred Lyke <fred.lyke@atcassociates.com>
Cc: brent.puzak@thepantry.com; commercialholdings@yahoo.com
Sent: Mon, November 29, 2010 4:10:40 PM
Subject: RE: Access agreement #585 Anderson, SC

I spoke with Mr. Williams and he confirmed that they are not ready to make a commitment to allow access for boring activities in relation to the above referenced site.

Mr. Williams did refer to a meeting to be held in a week, in which the access agreeement will be addressed.

I explained to Mr. Williams that further contact and correspondence will be directed from the project manager at SCDHEC and due to the activity required ,the project manager will assign their state lead contractor to perform any activities related to this scope of work.

Dee DeBerry | **ATC Associates Inc.** | **Columbia, SC**
803-735-0003 office | 803-920=2625 mobile

400 Northeast Drive | Suite Q | Columbia, South Carolina 29203
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From: Fred Lyke

Sent: Monday, November 29, 2010 1:42 PM
To: Dee Deberry
Subject: FW: Access agreement

Fred Lyke, P.G. | Branch Manager and Senior Geologist|
ATC Associates Inc.| Columbia, SC
803-735-0003 office | 803-767-0826 mobile

400 Northeast Drive, Unit Q | Columbia, SC 29203
803-735-0003 tel | 803-735-0443 fax | www.atcassociates.com
Fred.Lyke@atcassociates.com

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From: Jimmy Williams [mailto:commercialholdings@yahoo.com]
Sent: Thursday, November 04, 2010 2:46 PM
To: Fred Lyke
Subject: Re: Access agreement

Fred,

We will review and discuss... not ready to make a commitment yet.

Thank You,
Jimmy Williams
Commercial Holdings
1033 Kensington Lake Dr.
Easley, SC 29642

864.269.7590 office
864.923.3675 mobile
864.220.1403 fax

From: Fred Lyke <fred.lyke@atcassociates.com>
To: commercialholdings@yahoo.com
Sent: Thu, November 4, 2010 2:32:59 PM
Subject: FW: Access agreement

Mr. Williams,
I would like to schedule boring activities next week if possible. Please call with any questions. Thank you for your help in this matter.

Fred Lyke, P.G. | Branch Manager and Senior Geologist|
ATC Associates Inc.| Columbia, SC
803-735-0003 office | 803-767-0826 mobile

400 Northeast Drive, Unit Q | Columbia, SC 29203
803-735-0003 tel | 803-735-0443 fax | www.atcassociates.com
Fred.Lyke@atcassociates.com

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From: Fred Lyke
Sent: Friday, October 29, 2010 3:27 PM
To: 'commercialholdings@yahoo.com'
Subject: Access agreement

Mr. Williams,
This should be much clearer. Please call if any questions. Thank you.

Fred Lyke, P.G. | Branch Manager and Senior Geologist|
ATC Associates Inc.| Columbia, SC
803-735-0003 office | 803-767-0826 mobile

---

400 Northeast Drive, Unit Q | Columbia, SC 29203
803-735-0003 tel | 803-735-0443 fax | www.atcassociates.com
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From: Art A. Shrader
To: Wash, Chad
CC: Fred Lyke
Date: 10/11/2010 8:21 AM
Subject: Re: FW: Pantry #585 - UST #12458
Attachments: 12458 Define.pdf

Chad,

I understood that Pantry would get property access for the work in Anderson.
While the initial report was due May 2010, I had extended the due date to September 30th because of the access problems. I was by the site on Friday and did not see any new wells to define the plume.

I am concerned since there were several wells with free product on site and the plume has migrated off site. I plan on sending a Notice of Apparent Violation later this week.

Art

>>> "Chad Wash" <chad.wash@atcassociates.com> 6/8/2010 1:26 PM >>>

Art,

Did you get this e-mail (attachment) on 81 Food Mart? Just wanted to be sure...just talked w/ Fred and Pantry will contact you soon on the State lead confirmation.

Thanks,
Chad

From: Chad Wash
Sent: Tuesday, May 04, 2010 8:30 AM
To: 'Art A. Shrader'
Cc: Fred Lyke; 'lyke89@atc-enviro.com'
Subject: Pantry #585 - UST #12458

We tried to access the property and spoke with the owner on more than one occasion. The property access document is attached (signed - access denied). Please contact me with any questions you may have.

Thanks,
Chad

Chad L. Wash | ATC Associates Inc. | Columbia, SC
(803) 735-0003 direct | (803) 760-8797 mobile

D H E C
PROMOTE PROTECT PROSPER
South Carolina Department of Health
and Environmental Control

UNDERGROUND STORAGE TANK MANAGEMENT DIVISION
BUREAU OF LAND AND WASTE MANAGEMENT

2600 Bull Street
Columbia, SC 29201
Telephone (803) 898-4350
Fax (803) 898-4330

MEMORANDUM

22tech
UST
DOCKET

To: Cindy Williams, Manager
Enforcement Section

Date: December 6, 2010

Re: Enforcement Referral

Type: Technical (Scope of Work)

UST Permit #: 12458

Facility Name: 81 Food Mart (Former Pantry #585), 1502 East Greenville, St., Anderson, SC

Owner/Operator: (when the release is reported)
Prent Puzak
PO Box 1410, Sanford, NC 27331
Phone # (800) 476-7574 x 5403

Regulatory Citation: Section 280.65 Investigation for soil and ground-water cleanup of the South Carolina Underground Storage Tank Regulations, R. 61-92

Requested Action/Information: Requested a Tier II Assessment for release reported on February 2010. Assessment to be conducted with SUPERB Account money.

Additional Comments: Directed to define the product and plume was due on September 30 after extensions. Sent certified Letter on October 13, 2010. Have not received report to date.

Are there any Tank Ownership Issues? : ____Yes __X__No If yes please explain.

Are there any other persons being dealt with other than the tank owner? ____Yes __X__No

Referred By: Art Shrader Date: 12/6/10

Section Manager's Approval: _____ Date: 12-06-2010

Division Director's Approval: _____ Date: 12/8/10

Attach Copy of NOV Letter

Cc: ATC Columbia Contractor Certification File

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

UST DOCKET

OCT 13 2010 19 tel

CERTIFIED MAIL
91 7108 2133 3934 4767 6772

MR BRENT PUZAK
PANTRY INC
PO BOX 1410
SANFORD NC 27331-1410

Re: **Notice of Alleged Violation**
81 Food Mart (Former Pantry #585), 1502 East Greenville Street, Anderson, SC
UST Permit #12458; CA #38230: MWA #UMW-23466
Release reported November 10, 1992
Tier II Assessment Plan and Cost Proposal received January 28, 2010
Assessment Report Directive dated February 10, 2010
Anderson County

Dear Mr. Puzak:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control directed you in February 2010 to complete an assessment to define the extent of the plume with the report due in May 2010. A copy of the directive is enclosed for your reference. An extension was granted in June 8, 2010 until September 30, 2010 at the request of your contractor. To date the required report has not been received. In accordance with Section 280.65 of the South Carolina Underground Storage Tank Regulations, the assessment must be conducted as chemicals of concern are above the risk-based-screening levels.

Implementation of this scope of work should proceed upon receipt of this correspondence. **Please submit the report on or before November 30, 2010. Should you not submit th before this date, this office will initiate further enforcement action.**

Bendy 12/c
Note ATC (Dee Debery) did not get Seiron until NAV about access. AS

On all correspondence regarding this site and scope of work, please referenc number12458. If you have any questions concerning this correspondence, please con 896-6669, fax me at (803) 896-6245, or e-mail me at shradeaa@dhec.sc.gov.

Sincerely,

Arthur Shrader, Hydrogeologist
Assessment Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc.: UST Assessment Directive dated February 10, 2010

cc: ATC Associates, 400 Northwest Dr., STE Q, Columbia, SC 29203 (with enc.)
ATC Columbia Contractor Certification File (with enc.)
Technical File (without enc.)

Art A. Shrader - FW: Access agreement #585 Anderson, SC

From: "Fred Lyke" <fred.lyke@atcassociates.com>
To: "Art A. Shrader" <Shradeaa@dhec.sc.gov>
Date: 11/30/2010 2:02 PM
Subject: FW: Access agreement #585 Anderson, SC
CC: "Dee Deberry" <Dee.Deberry@atcassociates.com>

Art,
Please read the email trail below regarding the status of offsite access at the Pantry 585 Anderson site. As soon as we receive the signed letter (for borings only, no permanent monitor well installations) I will let you know. Sounds like we will be able to schedule and have results by the time you come back from vacation.

Fred Lyke, P.G. | Branch Manager and Senior Geologist|
ATC Associates Inc.| Columbia, SC
803-735-0003 office | 803-767-0826 mobile

400 Northeast Drive, Unit Q | Columbia, SC 29203
803-735-0003 tel | 803-735-0443 fax | www.atcassociates.com
Fred.Lyke@atcassociates.com

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From: Dee Deberry
Sent: Tuesday, November 30, 2010 1:52 PM
To: Jimmy Williams
Cc: Fred Lyke; brent.puzak@thepantry.com
Subject: RE: Access agreement #585 Anderson, SC

Sounds like a plan,

Thank you,
Dee

Dee DeBerry | **ATC Associates Inc.** | **Columbia, SC**
803-735-0003 office | 803-920=2625 mobile

400 Northeast Drive | Suite Q | Columbia, South Carolina 29203
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Thank You,
Jimmy Williams
Commercial Holdings
1033 Kensington Lake Dr.
Easley, SC 29642

864.269.7590 office
864.923.3675 mobile
864.220.1403 fax

From: Dee Deberry <Dee.Deberry@atcassociates.com>
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Cc: Fred Lyke <fred.lyke@atcassociates.com>; brent.puzak@thepantry.com
Sent: Tue, November 30, 2010 12:46:47 PM
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I will be in the office the rest of the day and can be reached at 866.735.0003 if you have any questions.

Thank you,
Dee

Dee DeBerry | **ATC Associates Inc.** | **Columbia, SC**
803-735-0003 office | 803-920=2625 mobile

400 Northeast Drive | Suite Q | Columbia, South Carolina 29203
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Sent: Monday, November 29, 2010 4:44 PM
To: Dee Deberry; Fred Lyke
Cc: brent.puzak@thepantry.com
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Also, is ten borings necessary?

Jimmy Williams
Commercial Holdings
1033 Kensington Lake Dr.
Easley, SC 29642

864.269.7590 office
864.923.3675 mobile
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From: Fred Lyke

Sent: Monday, November 29, 2010 1:42 PM
To: Dee Deberry
Subject: FW: Access agreement

Fred Lyke, P.G. | Branch Manager and Senior Geologist|
ATC Associates Inc.| Columbia, SC
803-735-0003 office | 803-767-0826 mobile

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400 Northeast Drive, Unit Q | Columbia, SC 29203
803-735-0003 tel | 803-735-0443 fax | www.atcassociates.com
Fred.Lyke@atcassociates.com

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864.269.7590 office
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ATC Associates Inc.| Columbia, SC
803-735-0003 office | 803-767-0826 mobile

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400 Northeast Drive, Unit Q | Columbia, SC 29203
803-735-0003 tel | 803-735-0443 fax | www.atcassociates.com
Fred.Lyke@atcassociates.com

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Subject: Access agreement

Mr. Williams,
This should be much clearer. Please call if any questions. Thank you.

Fred Lyke, P.G. | Branch Manager and Senior Geologist|
ATC Associates Inc.| Columbia, SC
803-735-0003 office | 803-767-0826 mobile

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To: Wash, Chad
CC: Fred Lyke
Date: 10/11/2010 8:21 AM
Subject: Re: FW: Pantry #585 - UST #12458
Attachments: 12458 Define.pdf

Chad,

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I am concerned since there were several wells with free product on site and the plume has migrated off site. I plan on sending a Notice of Apparent Violation later this week.

Art

>>> "Chad Wash" <chad.wash@atcassociates.com> 6/8/2010 1:26 PM >>>

Art,

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Thanks,
Chad

From: Chad Wash
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To: 'Art A. Shrader'
Cc: Fred Lyke; 'lyke89@atc-enviro.com'
Subject: Pantry #585 - UST #12458

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Thanks,
Chad

Chad L. Wash | ATC Associates Inc. | Columbia, SC
(803) 735-0003 direct | (803) 760-8797 mobile

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

FEB 1 0 2010

UST DOCKET 17tech

MR BRENT PUZAK
PANTRY INC
PO BOX 1410
SANFORD NC 27331-1410

Re: Assessment Report Directive
81 Food Mart (Former Pantry #585), 1502 East Greenville Street, Anderson, SC
UST Permit #12458; CA #38230: MWA #UMW-23466
Release reported November 10, 1992
AFVR and Tier II Report received March 31, 2009
Tier II Assessment Plan and Cost Proposal received January 28, 2010
Anderson County

Dear Mr. Puzak:

The Underground Storage Tank (UST) Division of the South Carolina Department of Health and Environmental Control (SCDHEC) recognizes your commitment to continue work at this site utilizing your own contractor. The UST Division has reviewed the referenced Tier II Assessment Plan and cost agreement submitted by ATC Associates Columbia. The assessment should be conducted in accordance with the Tier II Assessment guidance document and must be conducted in compliance with all applicable regulations. All shallow wells are to be installed with screen intervals that bracket the water table. The Tier II assessment document and appendices may be obtained from our website at http://www.scdhec.gov/environment/lwm/html/ust_guidance_docs.htm.

Assessment activities at the site should begin immediately upon receipt of this letter. Cost agreement number 38230 has been approved for the amount shown on the enclosed cost agreement form. Please be aware that the February 1, 2006 SUPERB Allowable Costs sheet states that "If vertical and horizontal extent of chemicals of concern are not fully defined by this tier report, additional mobilizations may not be approved by the Department." Therefore, equipment mobilization costs have not been approved for this scope of work. **Please contact the department prior to well installation for concurrence regarding the final well locations.** No-purge sampling is required for previously installed monitoring wells (except deep wells) where the screens bracket the water table.

Please note the following adjustments to the submitted cost agreement:

- Equipment mobilizations were deleted, as the plume was not previously defined.
- Personnel mobilizations were reduced from five to four.
- Monitoring well installation has been changed from hand auger to drilled (Item 9.A. to 9.B.). One shallow well has been added. This well should be installed in the impacted area south of MW-12 so the plume can be modeled.
- Deep monitoring well has been approved for 63 feet **(if necessary)** for a telescoping well adjacent to the added shallow well to ensure the vertical extent of the plume is defined. Please note that the screens of the permanent monitoring wells must bracket the water table, and all monitoring well locations must be technically justified or installation costs will not be approved. Field screening points converted to wells will be compensated at the permanent well installation rate.
- BTEX, naphthalene and MtBE laboratory analyses has been increased to include analyses of MW-6, MW-10, MW-11, MW-12, MW-17 and MW-18 associated with KMO #117 (UST Permit # 00707).

- The comprehensive survey should include the monitoring wells associated with former Pantry #585 and KMO 117 (UST Permit #00707).

ATC Columbia office can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Please note that all applicable South Carolina certification requirements apply to the laboratory services, well installation, and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

A Report of Findings and the invoice are due within 90 days from the date of this letter. An interim well drilling invoice may be submitted for this scope of work. If the invoice and completed report are 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. Please note, if unnecessary dilutions are completed resulting in reporting limits of individual Chemicals of Concern (CoC) in excess of Risk-Based Screening Levels (RBSLs), the Department may deny payment for any non-detect analysis where the reporting limit exceeds the RBSL. The UST Division encourages the use of 'J' values as necessary.

Please note that you and/or your contractor are responsible for obtaining all off-site access agreements and/or encroachment permits necessary for this scope of work.

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 the Division is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the Department for the cost to be paid. 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. Further, SCDHEC reserves the right to question and/or reject costs if deemed unreasonable. The SCDHEC reserves the right to audit project records at any time during the project or after completion of work.

The Department 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 COC concentrations based on laboratory analysis are below Risk Based Screening Levels (RBSLs), 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 regarding this site and scope of work, please reference UST Permit number12458. If you have any questions concerning this correspondence, please contact me at (803) 896-6669, fax me at (803) 896-6245, or e-mail me at shradeaa@dhec.sc.gov.

Sincerely,

Arthur Shrader, Hydrogeologist
Assessment Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc.: Approved Cost Agreement
Monitoring Well Approval (MWA)(copy)

cc: ATC Associates, 400 Northwest Dr., STE Q, Columbia, SC 29203 (with enc.)
Technical File (with enc.)

From: Art A. Shrader
To: Wash, Chad
CC: Fred Lyke
Date: 10/11/2010 8:21 AM
Subject: Re: FW: Pantry #585 - UST #12458
Attachments: 12458 Define.pdf

Chad,

I understood that Pantry would get property access for the work in Anderson.
While the initial report was due May 2010, I had extended the due date to September 30th because of the access problems. I was by the site on Friday and did not see any new wells to define the plume.

I am concerned since there were several wells with free product on site and the plume has migrated off site. I plan on sending a Notice of Apparent Violation later this week.

Art

>>> "Chad Wash" <chad.wash@atcassociates.com> 6/8/2010 1:26 PM >>>

Art,

Did you get this e-mail (attachment) on 81 Food Mart? Just wanted to be sure...just talked w/ Fred and Pantry will contact you soon on the State lead confirmation.

Thanks,
Chad

From: Chad Wash
Sent: Tuesday, May 04, 2010 8:30 AM
To: 'Art A. Shrader'
Cc: Fred Lyke; 'lyke89@atc-enviro.com'
Subject: Pantry #585 - UST #12458

We tried to access the property and spoke with the owner on more than one occasion. The property access document is attached (signed - access denied). Please contact me with any questions you may have.

Thanks,
Chad

Chad L. Wash | ATC Associates Inc. | Columbia, SC
(803) 735-0003 direct | (803) 760-8797 mobile

ATC ASSOCIATES INC.

400 Northeast Drive,
Unit Q
Columbia, SC 29203
www.atcassociates.com
803-735-0003
Fax: 803-735-0443

UST
JAN 05 2011
PROGRAM

234ech
UST
DOCKET

January 4, 2011

Mr. Art Shrader
SCDHEC
2600 Bull Street
Columbia, SC 29201

Re: Site ID12458
Former Pantry 585
1502 E. Greenville Street, Anderson, SC

Dear Mr. Shrader:

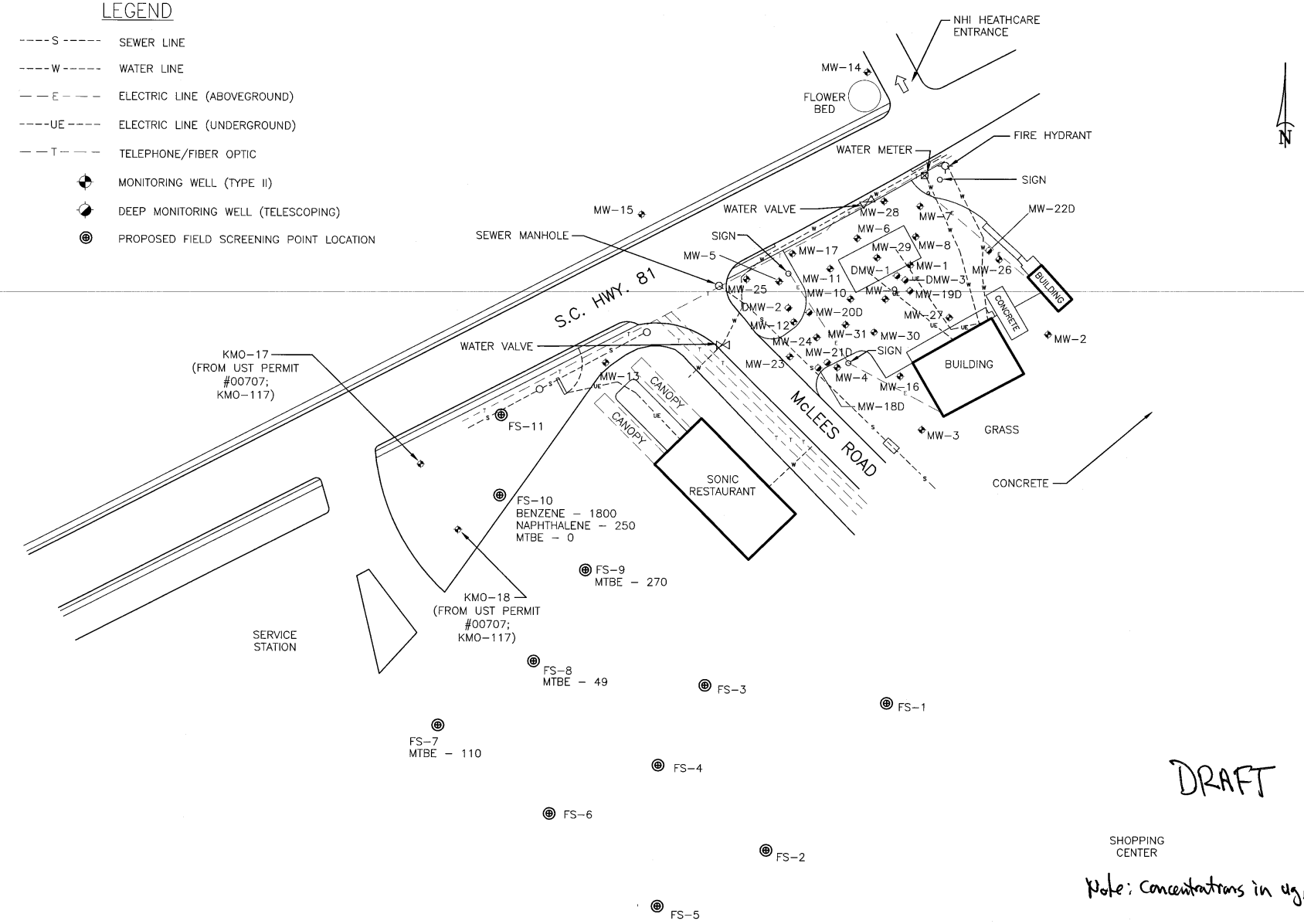
As requested, attached is a draft site map illustrating the field screening boring locations conducted on December 15, 2010. Also attached is the laboratory report for the groundwater samples collected from the field screening points. The field screening data is illustrated on the attached map. Field screening points without chemical of concern data indicates that concentrations were below laboratory detection levels at those points

If you have any questions please call.

Best regards,

Fred Lyke, PG
Branch Manager

Cc Beverly McLoed – SCDHEC Enforcement Section.



ATC ASSOCIATES INC.
Columbia, South Carolina 29203 (803) 735-0003 FAX (803) 735-0443

TITLE
UST PERMIT #12458
GROUNDWATER FIELD SCREENING MAP
FORMER PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

CAD FILE	TYPE CODE	PREP. BY	REV. BY	SCALE	DATE	PROJECT NO.
1253237.dwg		JW		1" = 60'	12-30-2010	89.25384.0585

NOTES:

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Case Narrative for:
ATC ASSOCIATES, INC.

Certificate of Analysis Number:
10120821

Report To:		Project Name:	014.25384.0585
ATC ASSOCIATES, INC.		Site:	PANTRY #585
CHAD WASH		Site Address:	
400 NORTHEAST DRIVE			
UNIT Q		PO Number:	
COLUMBIA		State:	South Carolina
SC		State Cert. No.:	73004001
29203-		Date Reported:	
ph: (803) 735-0003	fax:		

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data for those samples spiked by the laboratory and may be applicable to other samples of similar matrix from the site. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process. If insufficient sample is supplied for MS/MSD, a Laboratory Control Sample (LCS) and a Laboratory Control Sample Duplicate (LCSD) are reported with the analytical batch and serve as the batch quality control (QC).

Results are reported on a Wet Weight Basis unless otherwise noted in the sample unit field as -dry.

The collection of samples using encores, terracores or other field collection devices may result in inconsistent initial sample weights for the parent sample and MS/MSD samples.

The MS/MSD recovery and precision data are calculated based on detected spike concentrations that are adjusted for initial sample weights. As a result of the variability between initial sample weights, the calculated RPD may have increased bias.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

12/22/2010

Alberto E. Granados
Project Manager

Date

Test results meet all requirements of NELAC, unless specified in the narrative.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

ATC ASSOCIATES, INC.

Certificate of Analysis Number:

10120821

Report To: ATC ASSOCIATES, INC.
CHAD WASH
400 NORTHEAST DRIVE
UNIT Q
COLUMBIA
SC
29203-
ph: (803) 735-0003 fax: (803) 735-0443

Fax To:

Project Name: 014.25384.0585
Site: PANTRY #585
Site Address:

PO Number:
State: South Carolina
State Cert. No.: 73004001
Date Reported:

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
FS-1	10120821-01	Water	12/15/2010 10:20	12/18/2010 10:40:00 AM	307963	☐
FS-2	10120821-02	Water	12/15/2010 11:00	12/18/2010 10:40:00 AM	307963	☐
FS-3	10120821-03	Water	12/15/2010 11:30	12/18/2010 10:40:00 AM	307963	☐
FS-4	10120821-04	Water	12/15/2010 12:05	12/18/2010 10:40:00 AM	307963	☐
FS-5	10120821-05	Water	12/15/2010 12:30	12/18/2010 10:40:00 AM	307963	☐
FS-6	10120821-06	Water	12/15/2010 13:00	12/18/2010 10:40:00 AM	307963	☐
FS-7	10120821-07	Water	12/15/2010 13:06	12/18/2010 10:40:00 AM	307963	☐
FS-8	10120821-08	Water	12/15/2010 13:30	12/18/2010 10:40:00 AM	307963	☐
FS-9	10120821-09	Water	12/15/2010 14:00	12/18/2010 10:40:00 AM	307963	☐
FS-10	10120821-10	Water	12/15/2010 14:15	12/18/2010 10:40:00 AM	307963	☐
FS-11	10120821-11	Water	12/15/2010 14:35	12/18/2010 10:40:00 AM	307963	☐

12/22/2010
Date

Alberto E. Granados
Project Manager

Ron Benjamin
Laboratory Director

Tristan Davis
Quality Assurance Officer

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: FS-1 **Collected:** 12/15/2010 10:20 **SPL Sample ID:** 10120821-01

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND		1	1	12/21/10 7:10	DN	3869624
Ethylbenzene	ND		1	1	12/21/10 7:10	DN	3869624
Methyl tert-butyl ether	ND		1	1	12/21/10 7:10	DN	3869624
Naphthalene	ND		5	1	12/21/10 7:10	DN	3869624
Toluene	ND		1	1	12/21/10 7:10	DN	3869624
m,p-Xylene	ND		2	1	12/21/10 7:10	DN	3869624
o-Xylene	ND		2	1	12/21/10 7:10	DN	3869624
Xylenes,Total	ND		2	1	12/21/10 7:10	DN	3869624
Surr: 1,2-Dichloroethane-d4	100	%	79-121	1	12/21/10 7:10	DN	3869624
Surr: 4-Bromofluorobenzene	104	%	88-108	1	12/21/10 7:10	DN	3869624
Surr: Toluene-d8	99.9	%	89-108	1	12/21/10 7:10	DN	3869624

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: FS-2 **Collected:** 12/15/2010 11:00 **SPL Sample ID:** 10120821-02

Site: **PANTRY #585**

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND		1	1	12/21/10 7:40	DN	3869625
Ethylbenzene	ND		1	1	12/21/10 7:40	DN	3869625
Methyl tert-butyl ether	ND		1	1	12/21/10 7:40	DN	3869625
Naphthalene	ND		5	1	12/21/10 7:40	DN	3869625
Toluene	ND		1	1	12/21/10 7:40	DN	3869625
m,p-Xylene	ND		2	1	12/21/10 7:40	DN	3869625
o-Xylene	ND		2	1	12/21/10 7:40	DN	3869625
Xylenes,Total	ND		2	1	12/21/10 7:40	DN	3869625
Surr: 1,2-Dichloroethane-d4	101	%	79-121	1	12/21/10 7:40	DN	3869625
Surr: 4-Bromofluorobenzene	102	%	88-108	1	12/21/10 7:40	DN	3869625
Surr: Toluene-d8	99.6	%	89-108	1	12/21/10 7:40	DN	3869625

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: FS-3 **Collected:** 12/15/2010 11:30 **SPL Sample ID:** 10120821-03

Site: **PANTRY #585**

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND		1	1	12/21/10 8:10	DN	3869626
Ethylbenzene	ND		1	1	12/21/10 8:10	DN	3869626
Methyl tert-butyl ether	ND		1	1	12/21/10 8:10	DN	3869626
Naphthalene	ND		5	1	12/21/10 8:10	DN	3869626
Toluene	ND		1	1	12/21/10 8:10	DN	3869626
m,p-Xylene	ND		2	1	12/21/10 8:10	DN	3869626
o-Xylene	ND		2	1	12/21/10 8:10	DN	3869626
Xylenes,Total	ND		2	1	12/21/10 8:10	DN	3869626
Surr: 1,2-Dichloroethane-d4	103	%	79-121	1	12/21/10 8:10	DN	3869626
Surr: 4-Bromofluorobenzene	102	%	88-108	1	12/21/10 8:10	DN	3869626
Surr: Toluene-d8	98.4	%	89-108	1	12/21/10 8:10	DN	3869626

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: FS-4 **Collected:** 12/15/2010 12:05 **SPL Sample ID:** 10120821-04

Site: **PANTRY #585**

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND		1	1	12/21/10 8:40	DN	3869627
Ethylbenzene	ND		1	1	12/21/10 8:40	DN	3869627
Methyl tert-butyl ether	ND		1	1	12/21/10 8:40	DN	3869627
Naphthalene	ND		5	1	12/21/10 8:40	DN	3869627
Toluene	ND		1	1	12/21/10 8:40	DN	3869627
m,p-Xylene	ND		2	1	12/21/10 8:40	DN	3869627
o-Xylene	ND		2	1	12/21/10 8:40	DN	3869627
Xylenes,Total	ND		2	1	12/21/10 8:40	DN	3869627
Surr: 1,2-Dichloroethane-d4	103	%	79-121	1	12/21/10 8:40	DN	3869627
Surr: 4-Bromofluorobenzene	106	%	88-108	1	12/21/10 8:40	DN	3869627
Surr: Toluene-d8	97.3	%	89-108	1	12/21/10 8:40	DN	3869627

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: FS-5 **Collected:** 12/15/2010 12:30 **SPL Sample ID:** 10120821-05

Site: **PANTRY #585**

Analyses/Method	Result	QUAL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN				**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND			1	1	12/21/10 5:22	DN	3869526
Ethylbenzene	ND			1	1	12/21/10 5:22	DN	3869526
Methyl tert-butyl ether	ND			1	1	12/21/10 5:22	DN	3869526
Naphthalene	ND			5	1	12/21/10 5:22	DN	3869526
Toluene	ND			1	1	12/21/10 5:22	DN	3869526
m,p-Xylene	ND			2	1	12/21/10 5:22	DN	3869526
o-Xylene	ND			2	1	12/21/10 5:22	DN	3869526
Xylenes,Total	ND			2	1	12/21/10 5:22	DN	3869526
Surr: 1,2-Dichloroethane-d4	94.6		%	79-121	1	12/21/10 5:22	DN	3869526
Surr: 4-Bromofluorobenzene	99.1		%	88-108	1	12/21/10 5:22	DN	3869526
Surr: Toluene-d8	104		%	89-108	1	12/21/10 5:22	DN	3869526

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: FS-6 **Collected:** 12/15/2010 13:00 **SPL Sample ID:** 10120821-06

Site: **PANTRY #585**

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND		1	1	12/21/10 5:53	DN	3869527
Ethylbenzene	ND		1	1	12/21/10 5:53	DN	3869527
Methyl tert-butyl ether	ND		1	1	12/21/10 5:53	DN	3869527
Naphthalene	ND		5	1	12/21/10 5:53	DN	3869527
Toluene	ND		1	1	12/21/10 5:53	DN	3869527
m,p-Xylene	ND		2	1	12/21/10 5:53	DN	3869527
o-Xylene	ND		2	1	12/21/10 5:53	DN	3869527
Xylenes,Total	ND		2	1	12/21/10 5:53	DN	3869527
Surr: 1,2-Dichloroethane-d4	93.7	%	79-121	1	12/21/10 5:53	DN	3869527
Surr: 4-Bromofluorobenzene	97.5	%	88-108	1	12/21/10 5:53	DN	3869527
Surr: Toluene-d8	103	%	89-108	1	12/21/10 5:53	DN	3869527

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: FS-7 **Collected:** 12/15/2010 13:06 **SPL Sample ID:** 10120821-07

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN			**MCL**		**SW8260B**	**Units: ug/L**	
Benzene	ND		1	1	12/21/10 6:23	DN	3869528
Ethylbenzene	ND		1	1	12/21/10 6:23	DN	3869528
Methyl tert-butyl ether	110		1	1	12/21/10 6:23	DN	3869528
Naphthalene	ND		5	1	12/21/10 6:23	DN	3869528
Toluene	ND		1	1	12/21/10 6:23	DN	3869528
m,p-Xylene	ND		2	1	12/21/10 6:23	DN	3869528
o-Xylene	ND		2	1	12/21/10 6:23	DN	3869528
Xylenes,Total	ND		2	1	12/21/10 6:23	DN	3869528
Surr: 1,2-Dichloroethane-d4	94.6	%	79-121	1	12/21/10 6:23	DN	3869528
Surr: 4-Bromofluorobenzene	100	%	88-108	1	12/21/10 6:23	DN	3869528
Surr: Toluene-d8	101	%	89-108	1	12/21/10 6:23	DN	3869528

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: FS-8 **Collected:** 12/15/2010 13:30 **SPL Sample ID:** 10120821-08

Site: **PANTRY #585**

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND		1	1	12/21/10 6:53	DN	3869529
Ethylbenzene	ND		1	1	12/21/10 6:53	DN	3869529
Methyl tert-butyl ether	49		1	1	12/21/10 6:53	DN	3869529
Naphthalene	ND		5	1	12/21/10 6:53	DN	3869529
Toluene	ND		1	1	12/21/10 6:53	DN	3869529
m,p-Xylene	ND		2	1	12/21/10 6:53	DN	3869529
o-Xylene	ND		2	1	12/21/10 6:53	DN	3869529
Xylenes,Total	ND		2	1	12/21/10 6:53	DN	3869529
Surr: 1,2-Dichloroethane-d4	93.2	%	79-121	1	12/21/10 6:53	DN	3869529
Surr: 4-Bromofluorobenzene	97.5	%	88-108	1	12/21/10 6:53	DN	3869529
Surr: Toluene-d8	102	%	89-108	1	12/21/10 6:53	DN	3869529

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: FS-9 **Collected:** 12/15/2010 14:00 **SPL Sample ID:** 10120821-09

Site: PANTRY #585

Analyses/Method	Result	QUAL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN				**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	2.8			1	1	12/21/10 7:22	DN	3869530
Ethylbenzene	ND			1	1	12/21/10 7:22	DN	3869530
Methyl tert-butyl ether	270			5	5	12/22/10 8:02	CDP	3871657
Naphthalene	ND			5	1	12/21/10 7:22	DN	3869530
Toluene	ND			1	1	12/21/10 7:22	DN	3869530
m,p-Xylene	ND			2	1	12/21/10 7:22	DN	3869530
o-Xylene	ND			2	1	12/21/10 7:22	DN	3869530
Xylenes,Total	ND			2	1	12/21/10 7:22	DN	3869530
Surr: 1,2-Dichloroethane-d4	111		%	79-121	5	12/22/10 8:02	CDP	3871657
Surr: 1,2-Dichloroethane-d4	93.7		%	79-121	1	12/21/10 7:22	DN	3869530
Surr: 4-Bromofluorobenzene	98.2		%	88-108	5	12/22/10 8:02	CDP	3871657
Surr: 4-Bromofluorobenzene	100		%	88-108	1	12/21/10 7:22	DN	3869530
Surr: Toluene-d8	97.4		%	89-108	5	12/22/10 8:02	CDP	3871657
Surr: Toluene-d8	103		%	89-108	1	12/21/10 7:22	DN	3869530

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: FS-10 **Collected:** 12/15/2010 14:15 **SPL Sample ID:** 10120821-10

Site: **PANTRY #585**

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN			**MCL**		**SW8260B**	**Units: ug/L**	
Benzene	1800		10	10	12/22/10 8:30	CDP	3871658
Ethylbenzene	300		10	10	12/22/10 8:30	CDP	3871658
Methyl tert-butyl ether	ND		10	10	12/22/10 8:30	CDP	3871658
Naphthalene	250		50	10	12/22/10 8:30	CDP	3871658
Toluene	130		10	10	12/22/10 8:30	CDP	3871658
m,p-Xylene	88		20	10	12/22/10 8:30	CDP	3871658
o-Xylene	85		20	10	12/22/10 8:30	CDP	3871658
Xylenes,Total	173		20	10	12/22/10 8:30	CDP	3871658
Surr: 1,2-Dichloroethane-d4	109	%	79-121	10	12/22/10 8:30	CDP	3871658
Surr: 4-Bromofluorobenzene	99.1	%	88-108	10	12/22/10 8:30	CDP	3871658
Surr: Toluene-d8	96.8	%	89-108	10	12/22/10 8:30	CDP	3871658

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: FS-11 **Collected:** 12/15/2010 14:35 **SPL Sample ID:** 10120821-11

Site: PANTRY #585

Analyses/Method	Result	QUAL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN				**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND			1	1	12/21/10 8:23	DN	3869532
Ethylbenzene	ND			1	1	12/21/10 8:23	DN	3869532
Methyl tert-butyl ether	ND			1	1	12/21/10 8:23	DN	3869532
Naphthalene	ND			5	1	12/21/10 8:23	DN	3869532
Toluene	ND			1	1	12/21/10 8:23	DN	3869532
m,p-Xylene	ND			2	1	12/21/10 8:23	DN	3869532
o-Xylene	ND			2	1	12/21/10 8:23	DN	3869532
Xylenes,Total	ND			2	1	12/21/10 8:23	DN	3869532
Surr: 1,2-Dichloroethane-d4	96.1		%	79-121	1	12/21/10 8:23	DN	3869532
Surr: 4-Bromofluorobenzene	98.7		%	88-108	1	12/21/10 8:23	DN	3869532
Surr: Toluene-d8	102		%	89-108	1	12/21/10 8:23	DN	3869532

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

Quality Control Documentation

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

014.25384.0585

Analysis: Volatile Organics:Method 8260B+MTBE+Naphthalene
Method: SW8260B

WorkOrder: 10120821
Lab Batch ID: R251564

Method Blank

RunID: QA_101220B-3869515 Units: ug/L
Analysis Date: 12/20/2010 23:53 Analyst: DN

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	1.0
Naphthalene	ND	5.0
Toluene	ND	1.0
m,p-Xylene	ND	2.0
o-Xylene	ND	2.0
Xylenes,Total	ND	2.0
Surr: 1,2-Dichloroethane-d4	94.6	75-120
Surr: 4-Bromofluorobenzene	101.7	89-109
Surr: Toluene-d8	103.3	89-110

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
10120821-05A	FS-5
10120821-06A	FS-6
10120821-07A	FS-7
10120821-08A	FS-8
10120821-09A	FS-9
10120821-11A	FS-11

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: QA_101220B-3869512 Units: ug/L
Analysis Date: 12/20/2010 22:23 Analyst: DN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	50.0	48.4	96.8	50.0	47.1	94.3	2.6	23	88	117
Ethylbenzene	50.0	51.8	104	50.0	50.8	102	2.1	16	90	114
Methyl tert-butyl ether	50.0	49.7	99.5	50.0	49.2	98.4	1.1	23	80	124
Naphthalene	50.0	48.1	96.1	50.0	47.6	95.3	0.9	27	68	131
Toluene	50.0	49.9	99.8	50.0	50.2	100	0.5	21	84	118
m,p-Xylene	100	100	100	100	98.8	98.8	1.4	20	86	114
o-Xylene	50.0	51.8	104	50.0	52.3	105	0.9	17	87	117
Xylenes,Total	150.0	151.8	101.4	150.0	151.1	100.7	0.6	20	86	117
Surr: 1,2-Dichloroethane-d4	50.0	46.6	93.1	50.0	50.0	100	7.2	30	75	120
Surr: 4-Bromofluorobenzene	50.0	50.4	101	50.0	50.9	102	1.0	30	89	109
Surr: Toluene-d8	50.0	52.6	105	50.0	51.5	103	2.1	30	89	110

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

014.25384.0585

Analysis: Volatile Organics:Method 8260B+MTBE+Naphthalene
Method: SW8260B

WorkOrder: 10120821
Lab Batch ID: R251568

Method Blank

RunID: QB_101220B-3869610 Units: ug/L
Analysis Date: 12/21/2010 0:10 Analyst: DN

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	1.0
Naphthalene	ND	5.0
Toluene	ND	1.0
m,p-Xylene	ND	2.0
o-Xylene	ND	2.0
Xylenes,Total	ND	2.0
Surr: 1,2-Dichloroethane-d4	100.4	75-120
Surr: 4-Bromofluorobenzene	103.6	89-109
Surr: Toluene-d8	99.9	89-110

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
10120821-01A	FS-1
10120821-02A	FS-2
10120821-03A	FS-3
10120821-04A	FS-4

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: QB_101220B-3869607 Units: ug/L
Analysis Date: 12/20/2010 22:41 Analyst: DN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	50.0	45.5	91.1	50.0	48.6	97.1	6.4	23	88	117
Ethylbenzene	50.0	47.9	95.9	50.0	52.2	104	8.5	16	90	114
Methyl tert-butyl ether	50.0	50.1	100	50.0	55.0	110	9.2	23	80	124
Naphthalene	50.0	48.5	97.0	50.0	52.1	104	7.1	27	68	131
Toluene	50.0	48.5	97.0	50.0	52.2	104	7.4	21	84	118
m,p-Xylene	100	94.7	94.7	100	103	103	8.3	20	86	114
o-Xylene	50.0	48.3	96.6	50.0	52.3	105	8.0	17	87	117
Xylenes,Total	150	143	95.3	150	155	104	8.2	20	86	117
Surr: 1,2-Dichloroethane-d4	50.0	53.5	107	50.0	53.8	108	0.6	30	75	120
Surr: 4-Bromofluorobenzene	50.0	50.7	101	50.0	51.0	102	0.7	30	89	109
Surr: Toluene-d8	50.0	50.4	101	50.0	50.5	101	0.1	30	89	110

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

014.25384.0585

Analysis: Volatile Organics:Method 8260B+MTBE+Naphthalene
Method: SW8260B

WorkOrder: 10120821
Lab Batch ID: R251662

Method Blank

RunID: HA_101221B-3871440 Units: ug/L
Analysis Date: 12/22/2010 0:54 Analyst: CDP

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	1.0
Naphthalene	ND	5.0
Toluene	ND	1.0
m,p-Xylene	ND	2.0
o-Xylene	ND	2.0
Xylenes,Total	ND	2.0
Surr: 1,2-Dichloroethane-d4	105.7	75-120
Surr: 4-Bromofluorobenzene	100.0	89-109
Surr: Toluene-d8	97.0	89-110

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
10120821-09A	FS-9
10120821-10A	FS-10

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: HA_101221B-3871437 Units: ug/L
Analysis Date: 12/21/2010 23:29 Analyst: CDP

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	50.0	52.3	105	50.0	54.1	108	3.5	23	88	117
Ethylbenzene	50.0	51.1	102	50.0	53.6	107	4.8	16	90	114
Methyl tert-butyl ether	50.0	52.6	105	50.0	54.3	109	3.2	23	80	124
Naphthalene	50.0	53.1	106	50.0	53.7	107	1.2	27	68	131
Toluene	50.0	50.3	101	50.0	52.6	105	4.4	21	84	118
m,p-Xylene	100	103	103	100	106	106	3.1	20	86	114
o-Xylene	50.0	51.5	103	50.0	53.9	108	4.4	17	87	117
Xylenes,Total	150.0	154.5	103.2	150.0	159.9	106.9	3.5	20	86	117
Surr: 1,2-Dichloroethane-d4	50.0	51.2	102	50.0	51.0	102	0.3	30	75	120
Surr: 4-Bromofluorobenzene	50.0	49.9	99.7	50.0	51.2	102	2.7	30	89	109
Surr: Toluene-d8	50.0	49.5	99.1	50.0	49.3	98.6	0.5	30	89	110

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

Sample Receipt Checklist

And

Chain of Custody

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Sample Receipt Checklist

Workorder:	10120821	Received By:	SAB
Date and Time Received:	12/18/2010 10:40:00 AM	Carrier name:	FedEx-Pri Saturday Del
Temperature:	4°C	Chilled by:	Water Ice

1.	Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2.	Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐
3.	Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4.	Chain of custody present?	Yes ☑	No ☐	
5.	Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
6.	Chain of custody agrees with sample labels?	Yes ☑	No ☐	
7.	Samples in proper container/bottle?	Yes ☑	No ☐	
8.	Sample containers intact?	Yes ☑	No ☐	
9.	Sufficient sample volume for indicated test?	Yes ☑	No ☐	
10.	All samples received within holding time?	Yes ☑	No ☐	
11.	Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
12.	Water - VOA vials have zero headspace?	Yes ☑	No ☐	VOA Vials Not Present ☐
13.	Water - Preservation checked upon receipt (except VOA*)?	Yes ☐	No ☐	Not Applicable ☑

*VOA Preservation Checked After Sample Analysis

SPL Representative: _____ Contact Date & Time: _____

Client Name Contacted: _____

Non Conformance Issues: _____

Client Instructions: _____

SPL, Inc.
Analysis Request & Chain of Custody Record

SPL Workorder No.: 1012 0821 page 1 of 1

Client Name: ATC
Address: 400 NORTHWEST DR, SUITE Q
City: COLUMBIA State: SC Zip: [redacted]
Phone/Fax: (803) 735-0403
Client Contact: CHRIS WRIGHT Email:
Project Name/No.: 014.15364.0585
Site Name: PANTEX #585
Site Location: ANDERSON, SC
Invoice To: PO:

matrix: W=water S=soil O=oil A=air SL=sludge H=encore X=other
bottle: P=plastic G=glass
size: 1=1 liter 4=4oz 8=8oz 16=16oz 40=vial X=other
pres.: 1=HCl 2=HNO3 3=H2SO4 X=other

Requested Analysis: BTEX/MTBE/NAPH

SAMPLE ID	DATE	TIME	comp	grab	matrix	bottle	size	pres.	Number of Containers	BTEX/MTBE/NAPH							
FS-1	12/15/10	1020		X	X	X	X	X	3	X							3
FS-2		1100							3								3
FS-3		1130							3								3
FS-4		1205							3								3
FS-5		1230							3								3
FS-6		1300							3								3
FS-7		1306							3								3
FS-8		1330							3								3
FS-9		1400							3								3
FS-10		1415							3								3
FS-11		1435							3								3

Client/Complaint Remarks:
Laboratory remarks: % on ice Rw-2
Intact? ☑ Y ☐ N
Ice? ☑ Y ☐ N
Temp: 4.0 / 4.1

Requested TAT
☐ 1 Business Day ☐ Contract
☐ 2 Business Days ☒ Standard
☐ 3 Business Days CONTROL
☐ Other
Rush TAT requires prior notice

Special Reporting Requirements: Results: Fax ☐ Email ☒ Pay ☐
Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☐

Special Detection Limits (specify): (13)

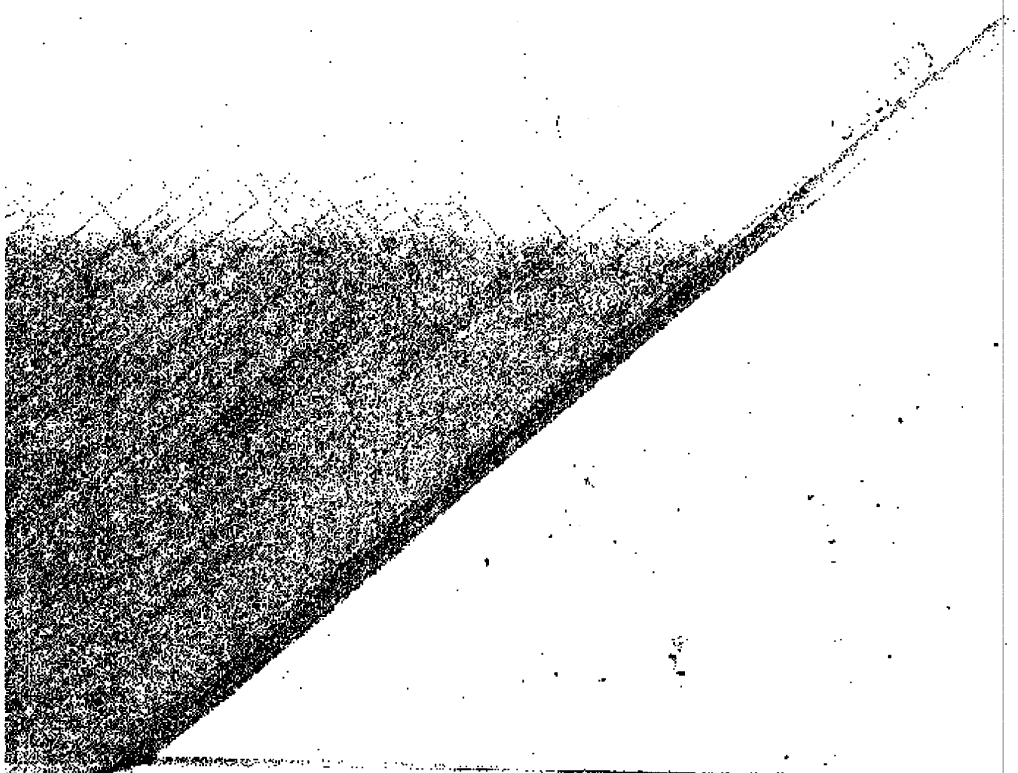
PM review (initial):

1. Relinquished by Sampler: Chris W / ATC	date 12/16/10	time 1810	2. Received by: Fed Ex
3. Relinquished by: Fed Ex	date 12-18-10	time 10:00	4. Received by: [illegible]
5. Relinquished by: [illegible]	date 12-18-10	time 10:40	6. Received by Laboratory: [illegible]

☐ 8880 Interchange Drive
Houston, TX 77054 (713) 660-0901

☐ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

☐ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777



FedEx US Airbill Express

FedEx Tracking Number 8724 2741 1706

Shaded areas can be removed for Recipient's records.

10/10 FedEx Tracking Number 872427411706

Sender's Name: WAD L. WASH Phone 803 735-0003

Company: ATC

Address: 400 NORTHEAST DR, SUITE Q

City: COLUMBIA State: SC ZIP: 29203

Optional Billing Reference

Recipient's Name: SHIPPING AND RECEIVING Phone 337 237-4775

Company: SOUTHERN PETROLEUM LABS

Address: 9 AMBASSADOR CAFFERY PKWY

HOLD Weekday REQUESTED NOW

City: LAFAYETTE State: LA ZIP: 70503-5300

0421411280

Recipient's Copy

4a Express Package Service Packages up to 150 lbs.

[redacted]

FedEx First Overnight

FedEx 2Day

FedEx Express Saver

4b Express Freight Service Packages over 150 lbs.

FedEx 1Day Freight

FedEx 2Day Freight

FedEx 3Day Freight

5 Packaging

FedEx Envelope*

FedEx Pak*

FedEx Box

FedEx Tube

Other

6 Special Handling and Delivery Signature Options

[redacted]

No Signature Required

Direct Signature

Indirect Signature

Does this shipment contain dangerous goods?

No

Yes

Dry Ice

Cargo Aircraft Only

7 Payment

Sender

Recipient

Third Party

Credit Card

Cash/Check

[redacted]

Total Packages 1 Total Weight 27 lb.

fedex.com 1800Go-FedEx 1800-463-3339

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

JAN 14 2011

UST DOCKET 24 Hec

MR BRENT PUZAK
PANTRY INC
PO BOX 1410
SANFORD NC 27331-1410

Re: Review of Screening Data
81 Food Mart (Former Pantry #585), 1502 East Greenville Street, Anderson, SC
UST Permit #12458; CA #38230: MWA #UMW-23466
Release reported November 10, 1992
Tier II Assessment Plan and Cost Proposal received January 28, 2010
Assessment Report Directive dated February 10, 2010
Screening Data received January 5, 2011
Anderson County

Dear Mr. Puzak:

The Underground Storage Tank (UST) Division of the South Carolina Department of Health and Environmental Control (SCDHEC) recognizes your commitment to continue work at this site utilizing ATC Associates. The UST Division has reviewed the referenced screening data and agrees monitoring wells need to define the horizontal and vertical extent of the plume. An intermediate well with a screen between 15 to 20 feet and deep pit cased well should be installed adjacent to monitoring well KMO-18. Additionally shallow monitoring wells with a 10-foot screen that brackets the water table should be installed in the vicinity of screening points FS-4, FS-7 and approximately 90 feet south of monitoring well KMO MW-12. In addition to monitoring wells associated with the referenced site, please sample the following monitoring wells associated with KMO # 117 (UST Permit #00707) KMO MW-3, KMO MW-5, KMO MW-12, KMO MW-17, and KMO MW-18.

An addendum to cost agreement number 38243 and revision to Monitoring Well Approval number UMW-23466 will be provided for the costs associated with the field screening activities, well installation and groundwater sampling of the additional wells.

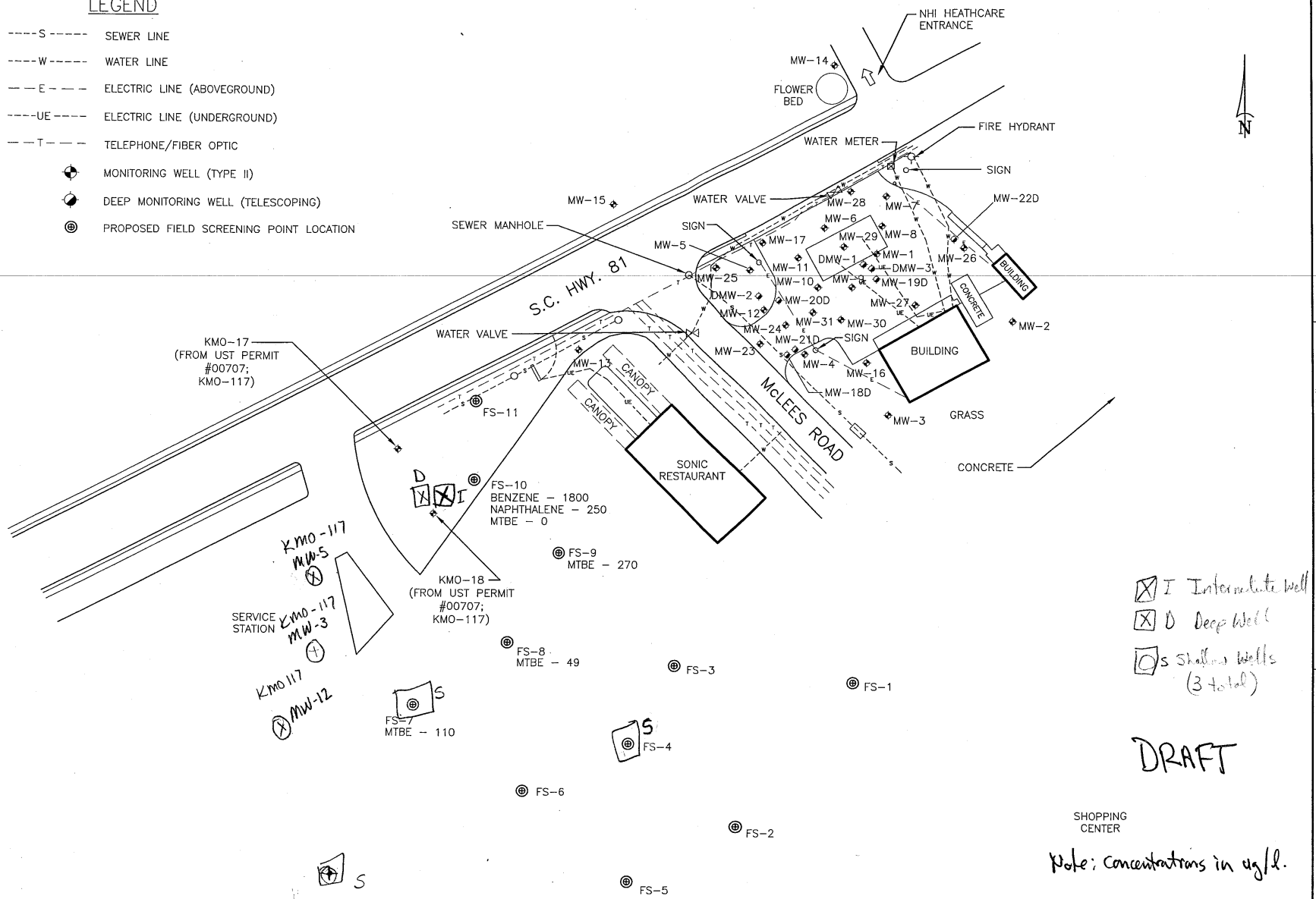
On all correspondence regarding this site and scope of work, please reference UST Permit number12458. If you have any questions concerning this correspondence, please contact me at (803) 896-6669, fax me at (803) 896-6245, or e-mail me at shradeaa@dhec.sc.gov.

Sincerely,

Arthur Shrader, Hydrogeologist
Assessment Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc.: Groundwater Field Screening Map with Approximate Well Locations

cc: Ms. McLeod, Enforcement Section (with enc.)
Ms. Fuller Ken Moorhead Oil Company, Inc. PO Box 2587, Anderson, SC 29622 (without enc.)
ATC Associates, 400 Northwest Dr., STE Q, Columbia, SC 29203 (with enc.)
Technical File (with enc.)



NOTES:

TITLE
GROUNDWATER FIELD SCREENING MAP
FORMER PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA
UST PERMIT #12458

CAD FILE 1253237.dwg | TYPE CODE | PREP. BY JW | REV. BY | SCALE 1" = 60' | DATE 12-30-2010 | PROJECT NO. 89.25384.0585

ATC ASSOCIATES INC.
Columbia, South Carolina 29203 (803) 735-0003 FAX (803) 735-0443

ATC ASSOCIATES INC.
Engineering Individual Solutions

400 Northeast Drive, Unit Q
Columbia, South Carolina 29203
803-735-0003
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www.atcassociates.com

May 23, 2011

UST
MAY 31 2011
PROGRAM

Mr. Arthur Shrader, Hydrogeologist
SCDHEC – UST Program
Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201

25 Heal
UST
DOCKET

Re: Groundwater Assessment Report
Pantry #585
Anderson County
UST Permit #12458

Mr. Shrader:

Attached is the Groundwater Assessment Report for the Pantry #585. Please contact me with any questions you may have at (803) 735-0003.

Sincerely,
ATC Associates Inc.

Chad L. Wash
Project Geologist

Attachment

cc: Mr. Brent Puzak, The Pantry, Inc.

ATC ASSOCIATES INC.
Engineering Individual Solutions

400 Northeast Drive, Unit Q
Columbia, South Carolina 29203
803-735-0003
Fax 803-735-0443
www.atcassociates.com

GROUNDWATER ASSESSMENT REPORT

Pantry #585
1502 East Greenville Street
Anderson, South Carolina
Anderson County
UST Permit #12458

PREPARED FOR:

Mr. Brent Puzak
Director of Gasoline Environmental
The Pantry, Inc.
Post Office Box 8019
Cary, North Carolina 27512

PREPARED BY:

ATC Associates Inc.
400 Northeast Drive, Unit Q
Columbia, South Carolina 29203
(803) 735-0003

Chad L. Wash, Project Geologist

Frederick P. Lyke, P.G. #1055

May 23, 2011

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1.0 INTRODUCTION

Mr. Brent Puzak of The Pantry, Inc. contracted ATC Associates Inc. (ATC) to conduct groundwater assessment activities at the Former Pantry Store #585 facility located at 1502 East Greenville Highway in Anderson, South Carolina. A site location map is presented as **Figure 1**. The scope of work was required by South Carolina Department of Health and Environmental Control (SCDHEC) in correspondence to The Pantry, Inc. dated February 14, 2011. A copy of the SCDHEC correspondence is presented in **Appendix A**.

2.0 METHODOLOGY

2.1 Groundwater Field Screening Activities

On December 15, 2010, ATC personnel oversaw the completion of eight (11) Field Screen soil borings (FS-1 through FS-11) installed with a track-mounted Geoprobe by Tommy Bolyard, a licensed South Carolina well driller. Field Screen soil borings FS-1 though FS-11 were completed into the water table to an approximate depth of 12 feet below ground surface (bgs). Field Screen soil borings FS-1through FS-6, and FS-8 were installed southeast of Monitor Well KMO-18; Field Screen soil boring FS-7 was installed south of Monitor Well KMO-18; Field Screen soil boring FS-9 was installed east of Monitor Well KMO-18; and Field Screen soil borings FS-10 and FS-11 were installed northeast of Monitor Well KMO-18. Field screen soil boring locations are depicted in **Figure 4**, and soil boring logs are presented in **Appendix B**.

2.2 Monitor Well Installations

On March 7, 2011, ATC personnel oversaw the installation of three (3) shallow groundwater monitor wells, by Mr. Tommy Bolyard, a licensed South Carolina well driller, of EDPS, Inc. Mr. Bolyard, using an air-rotary drill rig, installed Monitor Wells MW-PL-1, MW-PL-2, MW-PL-3 to an approximate depth of thirteen (13) feet below ground surface (bgs). Monitor Well MW-PL-1 was installed southeast of Monitor Well KMO-18; Monitor Well MW-PL-2 was installed south of

Monitor Well KMO-18; and Monitor Well MW-PL-3 was installed south of Monitor Well KMO-12. Soil samples were collected for lithologic descriptions during the installation of the monitor wells. Monitor well locations are depicted in **Figure 2**.

On March 7, 2011, ATC personnel oversaw the installation of one (1) shallow groundwater monitor well by Mr. Tommy Bolyard, a licensed South Carolina well driller, of EDPS, Inc. Mr. Bolyard, using an air-rotary drill rig, installed Intermediate Monitor Well IW-1 to an approximate depth of twenty (20) feet bgs. Monitor Well IW-1 was installed near telescoping Monitor Well DMW-3. Soil samples were collected for lithologic descriptions during the monitor well installation. Monitor well locations are depicted in **Figure 2**.

On March 7 and 8, 2011, ATC personnel oversaw the installation of one (1) telescoping monitor well by Mr. Tommy Bolyard, a licensed South Carolina Well Driller, of EDPS, Inc. Mr. Bolyard, using an air-rotary drill rig, installed telescoping Monitor Well DMW-4 to an approximate depth of 55 feet bgs. Monitor Well DMW-3 was installed near Intermediate Monitor Well IW-1. Soil samples were collected for lithologic descriptions during the monitor well installation. Monitor well locations are depicted in **Figure 2**.

The monitor wells were constructed of 2-inch diameter, Schedule 40, flush threaded PVC well casing with factory slotted (0.01-inch opening) Schedule 40 PVC well screen attached. A uniformly graded silica filter pack was installed in the annular space from total depth to approximately 2.0 feet above the top of the screen and followed by approximately 2.0 feet of bentonite pellets, which were hydrated. The remainder of the boring was grouted to land surface. The monitor wells were constructed with the top of the well screen above the water table to allow for detection of potential free-phase liquid hydrocarbon. Monitor Well DMW-3 was constructed with a six-inch diameter outer casing set to 50 feet bgs. Mud rotary techniques were then used to drill through the outer casing and complete the well to 55 feet bgs. The monitor wells were completed with a water-tight, locking PVC cap, protected by a flush finished concrete pad with a 9-inch diameter steel, traffic rated manhole with a bolt down cover. Following installations, the monitor wells were developed with a

centrifugal pump to remove any fine materials that may impede the flow of groundwater into the well. Monitor well construction details and lithologic descriptions are presented in **Appendix C**.

2.3 Soil Organic Vapor Measurements

Soil organic vapor concentration measurements were performed on soil samples and saturated soil samples obtained during the monitor well installations using a Minirae™ Model 2000 PID. Each soil sample was placed in a sealed plastic container and allowed to volatilize for approximately 15 minutes. The PID probe was then inserted into the headspace of the bag, and the highest organic vapor reading observed was recorded for each sample. Organic vapor concentrations are recorded on the monitor well construction logs.

2.4 Site Hydrogeology

During the April 28, 2011, gauging event, no liquid phase hydrocarbons (LPH) were detected at any gauged monitor wells. Groundwater flow direction is to the southwest with a hydraulic gradient of 0.016 feet per foot, as measured between Monitor Wells KMO-18 and MW-PL-3. Groundwater measurements are summarized in **Table I**, and a groundwater elevation contour map is depicted in **Figure 3**.

2.5 Groundwater Sampling and Analysis

During the current assessment activities, groundwater samples were collected from Field Screen soil borings FS-1 through FS-11. New, disposable, nitrile gloves were used to maintain sample integrity during the sampling process. The groundwater samples were placed in laboratory supplied containers, placed on ice, and shipped via FedEx to SPL, Inc. in Scott, Louisiana for proper analysis. Proper preservation methods and chain-of-custody procedures were followed throughout the sampling process. The groundwater samples were analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX), methyl-tert-butyl-ether (MTBE), and naphthalene by EPA method 8260B.

During the current assessment activities, groundwater samples were collected from Monitor Wells MW-PL-1, MW-PL-2, MW-PL-3, IW-1, and DMW-4. For the purposes of this investigation, groundwater samples were also collected from Monitor Wells KMO-3, KMO-5, KMO-6, KMO-10, KMO-11, KMO-12, KMO-17, and KMO-18, located at the Citgo-KMO #117 / UST# 00707 facility. A new, disposable, polyethylene bailer was used for the collection of the groundwater samples. Groundwater samples collected from Monitor Wells KMO-3, KMO-5, KMO-6, KMO-10, KMO-11, KMO-12, KMO-17, and KMO-18 were collected using the no-purge method since the water table at these wells properly bracketed the well screen. Monitor Wells MW-PL-1, MW-PL-2, MW-PL-3, IW-1, and DMW-4 were sampled after pH, specific conductivity, temperature, and dissolved oxygen values had equilibrated. All purge water was drummed for proper disposal at a permitted treatment facility. Groundwater sampling field measurements are presented in **Appendix D**. New, disposable, nitrile gloves were used to maintain sample integrity during the sampling process. The groundwater samples were placed in laboratory supplied containers, placed on ice, and shipped via FedEx to SPL, Inc. in Scott, Louisiana for proper analysis. Proper preservation methods and chain-of-custody procedures were followed throughout the sampling process. All groundwater samples were analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX), methyl-tert-butyl-ether (MTBE), and naphthalene by EPA method 8260B. Monitor Wells MW-PL-1 through MW-PL-3, IW-1, and DMW-4 were also analyzed for 1,2-dichloroethane (1,2-DCA) and the eight oxygenates by EPA method 8260B; 1,2-Dibromoethane (EDB) by EPA method 8011; lead by EPA method 6010; nitrate by EPA method M4500; sulfate by ASTM method D516-90; and ferrous iron EPA method M3500.

3.0 LABORATORY ANALYTICAL RESULTS

3.1 Field Screening Analytical Results

Groundwater analytical results for the Field Screen soil boring samples detected benzene concentrations in borings FS-9 and FS-10. Toluene, ethylbenzene, xylenes, and naphthalene concentrations were detected in boring FS-10. MTBE concentrations were detected in borings FS-7, FS-8, and FS-9.

Benzene and naphthalene concentrations were detected greater than their RBSLs of 5 µg/l and 25 µg/l at boring FS-10. MTBE concentrations were detected greater than its RBSL of 40 µg/l at borings FS-7, FS-8, and FS-10. Laboratory analytical results are summarized in **Table II** and **Figure 4**. Laboratory analytical results are presented in **Appendix E**.

3.2 Groundwater Analytical Results

Groundwater analytical results for the samples collected during the current assessment activities detected benzene concentrations at Monitor Wells KMO-3, KMO-17, and IW-1. Toluene and xylenes concentrations were detected at Monitor Wells KMO-3 and KMO-17. Ethylbenzene concentrations were detected at Monitor Well KMO-17. MTBE concentrations were detected at Monitor Wells KMO-3, KMO-12, and IW-1. Naphthalene concentrations were detected at Monitor Wells KMO-3 and KMO-17. Nitrate concentrations were detected at Monitor Well MW-PL-3. Sulfate concentrations were detected at Monitor Wells MW-PL-1 through MW-PL-3, IW-1, and DMW-4. Eight oxygenates concentrations were detected at Monitor Well IW-1. EDB, 1,2-DCA, ferrous iron, and lead concentrations were not detected at any sampled locations.

Benzene concentrations were detected greater than its risk based screening level (RBSL) of 5 µg/l at Monitor Wells KMO-3 and KMO-17. MTBE concentrations were detected greater than its RBSL of 40 µg/l at Monitor Well KMW-3. Groundwater analytical results are presented in **Table III**, groundwater concentrations are depicted in **Figures 5A-5B**, and groundwater laboratory analytical results are presented in **Appendix E**.

4.0 CONCLUSIONS AND RECOMMENDATIONS

- Eleven (11) Field Screen soil borings (FS-1 through FS-11) were installed during the current assessment activities.

- Five (5) shallow monitor wells, identified as Monitor Wells MW-PL-1, MW-PL-2, MW-PL-3, IW-1, and DMW-4, were installed during the current assessment activities.
- During the April 28, 2011, gauging event, liquid phase hydrocarbons (LPH) were not detected at any gauged monitor wells.
- Groundwater flow direction is to the southwest with a hydraulic gradient of 0.016 feet per foot, as measured between Monitor Wells KMO-18 and MW-PL-3.
- BTEX concentrations were detected at Monitor Wells KMO-3 and KMO-17. No historical comparison can be made regarding the newly installed monitor wells or groundwater samples collected from Monitor Wells KMO-3, KMO-5, KMO-6, KMO-10, KMO-11, KMO-12, KMO-17, and KMO-18, located at Citgo-KMO #117 / UST# 00707 facility.

Based on current groundwater conditions, ATC Associates, Inc recommends three (3) consecutive aggressive fluid vapor recovery (AFVR) events be conducted at Monitor Wells MW-10, MW-27, and MW-30, followed by a comprehensive groundwater sampling event to determine groundwater concentrations at all monitor wells associated with the Pantry #585 facility.

5.0 REPORT LIMITATIONS

This investigation is intended to be a non-biased assessment of on-site environmental conditions proximate to the location of the former UST system. Subsurface investigative methodologies are in accordance with all applicable state and federal regulatory requirements. The information presented in this report is based upon site-specific observations, generally accepted geological practices, and analytical results for environmental samples collected at the time of the field investigation. All data is believed to represent subsurface conditions at the facility, however, data may not be completely representative of all subsurface conditions.

REFERENCES

ATC Associates Inc., November 20, 2008, *Groundwater Assessment Report – Pantry #585*, Columbia, South Carolina.

SCDHEC, May 15, 2001, *Risk-Based Corrective Action for Petroleum Releases*, Columbia, South Carolina.

TABLES

TABLE I Groundwater Elevation Data Former Pantry #585 - Anderson, South Carolina							
Monitor Well Number	Gauging Date	Top of Casing Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Depth of Well (feet)	Screened Interval (feet)	Water Table Elevation (feet)
KMO-3	04/28/2011	87.86	7.28	0	14	10	80.58
KMO-5	04/28/2011	88.22	7.52	0	14	10	80.70
KMO-6	04/28/2011	86.17	7.15	0	15	10	79.02
KMO-10	04/28/2011	84.63	5.85	0	15	10	78.78
KMO-11	04/28/2011	83.38	6.02	0	12	10	77.36
KMO-12	04/28/2011	85.45	5.93	0	15	10	79.52
KMO-17	04/28/2011	87.79	7.88	0	15	10	79.91
KMO-18	04/28/2011	85.93	5.77	0	15	10	80.16
MW-PL-1	04/28/2011	86.55	8.22	0	13	10	78.33
MW-PL-2	04/28/2011	84.05	5.94	0	13	10	78.11
MW-PL-3	04/28/2011	82.56	5.46	0	13	10	77.10
IW-1	04/28/2011	85.84	6.12	0	20	5	79.72
DMW-4	04/28/2011	86.20	6.97	0	55	5	79.23

Top of casing elevations are based on an assumed elevation;
LPH = Liquid Phase Hydrocarbons;
NL = Not Located.

TABLE II
Field Screening Analytical Results - December 15, 2011
Pantry #585 - Anderson, South Carolina

Chemical of Concern	RBSL (µg/l)	FS-1 (µg/l)	FS-2 (µg/l)	FS-3 (µg/l)	FS-4 (µg/l)	FS-5 (µg/l)	FS-6 (µg/l)	FS-7 (µg/l)	FS-8 (µg/l)
Free Product Thickness	NA	None	None	None	None	None	None	None	None
Benzene	5	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	1000	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes	10000	<2	<2	<2	<2	<2	<2	<2	<2
Total BTEX	NA	<5	<5	<5	<5	<5	<5	<5	<5
MTBE	40	<1	<1	<1	<1	<1	<1	**110**	**49**
Naphthalene	25	<5	<5	<5	<5	<5	<5	<5	<5

Bold concentrations represent those greater than the respective RBSL;
NA = Not Applicable.

TABLE II (continued) Field Screening Analytical Results - December 15, 2011 Pantry #585 - Anderson, South Carolina				
Chemical of Concern	RBSL (µg/l)	FS-9 (µg/l)	FS-10 (µg/l)	FS-11 (µg/l)
Free Product Thickness	NA	None	None	None
Benzene	5	2.8	**1800**	<1
Toluene	1000	<1	130	<1
Ethylbenzene	700	<1	300	<1
Xylenes	10000	<2	173	<2
Total BTEX	NA	<6.8	2403	<5
MTBE	40	**270**	<10	<1
Naphthalene	25	<5	**250**	<5

Bold concentrations represent those greater than the respective RBSL;
NA = Not Applicable.

TABLE III
Groundwater Analytical Results - April 28, 2011
Former Pantry #585 - Anderson, South Carolina

Chemical of Concern	RBSL (µg/l)	MW-PL-1 (µg/l)	MW-PL-2 (µg/l)	MW-PL-3 (µg/l)	KMO-3 (µg/l)	KMO-5 (µg/l)	KMO-6 (µg/l)	KMO-10 (µg/l)
Free Product Thickness	NA	None	None	None	None	None	None	None
Benzene	5	<1	<1	<1	**50**	<1	<1	<1
Toluene	1000	<1	<1	<1	2.5	<1	<1	<1
Ethylbenzene	700	<1	<1	<1	<1	<1	<1	<1
Xylenes	10000	<2	<2	<2	29	<2	<2	<2
Total BTEX	NA	<5	<5	<5	<82.5	<5	<5	<5
MTBE	40	<1	<1	<1	**120**	<1	<1	<1
Naphthalene	25	<5	<5	<5	6.6	<5	<5	<5
EDB	0.05	<0.046	<0.044	<0.043	NS	NS	NS	NS
Lead	0.015*	<0.01*	<0.01*	<0.01*	NS	NS	NS	NS
1,2-DCA	NA	<5	<5	<5	NS	NS	NS	NS
Ferrous Iron	NA	<0.05*	<0.05*	<0.05*	NS	NS	NS	NS
Nitrate	NA	<0.01*	<0.01*	0.066*	NS	NS	NS	NS
Sulfate	NA	24.7*	25.6*	22.8*	NS	NS	NS	NS

Bold concentrations represent those greater than the respective RBSL.
NA = Not Applicable; NS = Not Sampled

TABLE III (continued)
Groundwater Analytical Results - April 28, 2011
Former Pantry #585 - Anderson, South Carolina

Chemical of Concern	RBSL (µg/l)	MW-PL-1 (µg/l)	MW-PL-2 (µg/l)	MW-PL-3 (µg/l)	KMO-3 (µg/l)	KMO-5 (µg/l)	KMO-6 (µg/l)	KMO-10 (µg/l)
3,3-Dimethyl-1-butanol	NA	<10	<10	<10	NS	NS	NS	NS
Diisopropyl ether	NA	<5	<5	<5	NS	NS	NS	NS
Ethanol	NA	<100	<100	<100	NS	NS	NS	NS
t-Butyl alcohol	NA	<10	<10	<10	NS	NS	NS	NS
tert-Amyl-alcohol	NA	<10	<10	<10	NS	NS	NS	NS
tert-Amyl methyl ether	NA	<5	<5	<5	NS	NS	NS	NS
tert-Butyl ethyl ether	NA	<5	<5	<5	NS	NS	NS	NS
tert-Butyl formate	NA	<1	<1	<1	NS	NS	NS	NS

Bold concentrations represent those greater than the respective RBSL.
NA = Not Applicable; NS = Not Sampled

TABLE III (continued)
Groundwater Analytical Results - April 28, 2011
Former Pantry #585 - Anderson, South Carolina

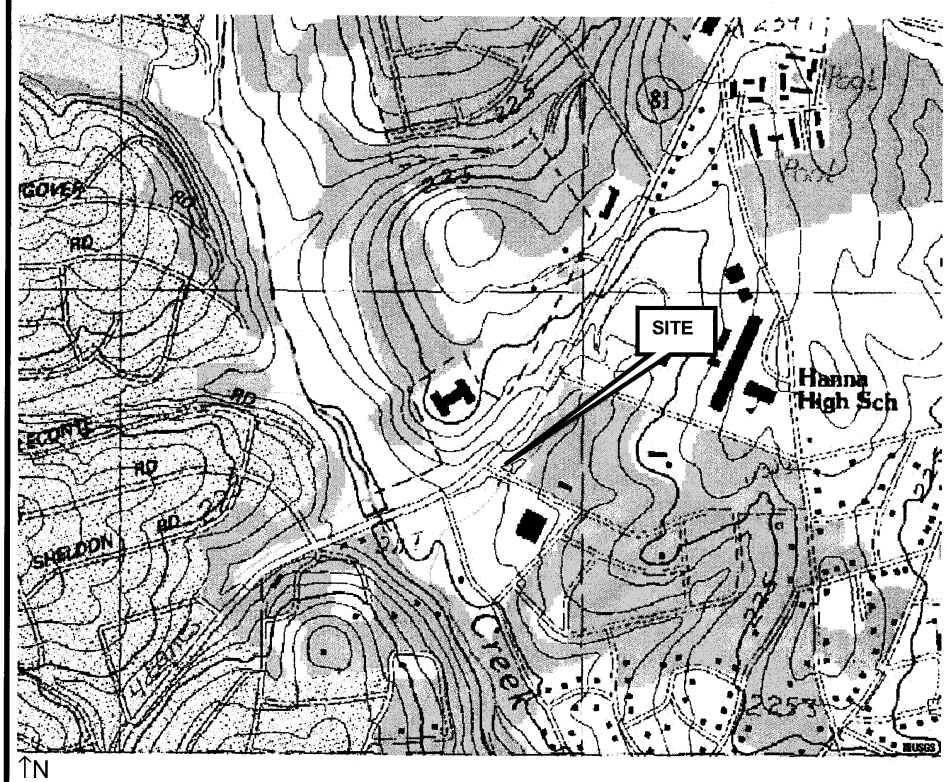
Chemical of Concern	RBSL (µg/l)	KMO-11 (µg/l)	KMO-12 (µg/l)	KMO-17 (µg/l)	KMO-18 (µg/l)	IW-1 (µg/l)	DMW-4 (µg/l)
Free Product Thickness	NA	None	None	None	None	None	None
Benzene	5	<1	<1	**7.6**	<1	1.2	<1
Toluene	1000	<1	<1	31	<1	<1	<1
Ethylbenzene	700	<1	<1	26	<1	<1	<1
Xylenes	10000	<2	<2	47	<2	<2	<2
Total BTEX	NA	<5	<5	111.6	<5	<5.2	<5
MTBE	40	<1	4.2	<1	<1	1.6	<1
Naphthalene	25	<5	<5	17	<5	<5	<5
EDB	0.05	NS	NS	NS	NS	<0.043	<0.045
Lead	0.015*	NS	NS	NS	NS	<0.01*	<0.01*
1,2-DCA	NA	NS	NS	NS	NS	<5	<5
Ferrous Iron	NA	NS	NS	NS	NS	<0.05*	<0.05*
Nitrate	NA	NS	NS	NS	NS	<0.01*	<0.01*
Sulfate	NA	NS	NS	NS	NS	8.34*	21.9*

Bold concentrations represent those greater than the respective RBSL.
NA = Not Applicable; NS = Not Sampled; * denotes results in mg/l.

TABLE III (continued) Groundwater Analytical Results - April 28, 2011 Former Pantry #585 - Anderson, South Carolina							
Chemical of Concern	RBSL (µg/l)	KMO-11 (µg/l)	KMO-12 (µg/l)	KMO-17 (µg/l)	KMO-18 (µg/l)	IW-1 (µg/l)	DMW-4 (µg/l)
3,3-Dimethyl-1-butanol	NA	NS	NS	NS	NS	<10	<10
Diisopropyl ether	NA	NS	NS	NS	NS	13	<5
Ethanol	NA	NS	NS	NS	NS	<100	<100
t-Butyl alcohol	NA	NS	NS	NS	NS	28	<10
tert-Amyl-alcohol	NA	NS	NS	NS	NS	170	<10
tert-Amyl methyl ether	NA	NS	NS	NS	NS	<5	<5
tert-Butyl ethyl ether	NA	NS	NS	NS	NS	<5	<5
tert-Butyl formate	NA	NS	NS	NS	NS	<1	<1

Bold concentrations represent those greater than the respective RBSL;
NA = Not Applicable; NS = Not Sampled.

FIGURES



↑N

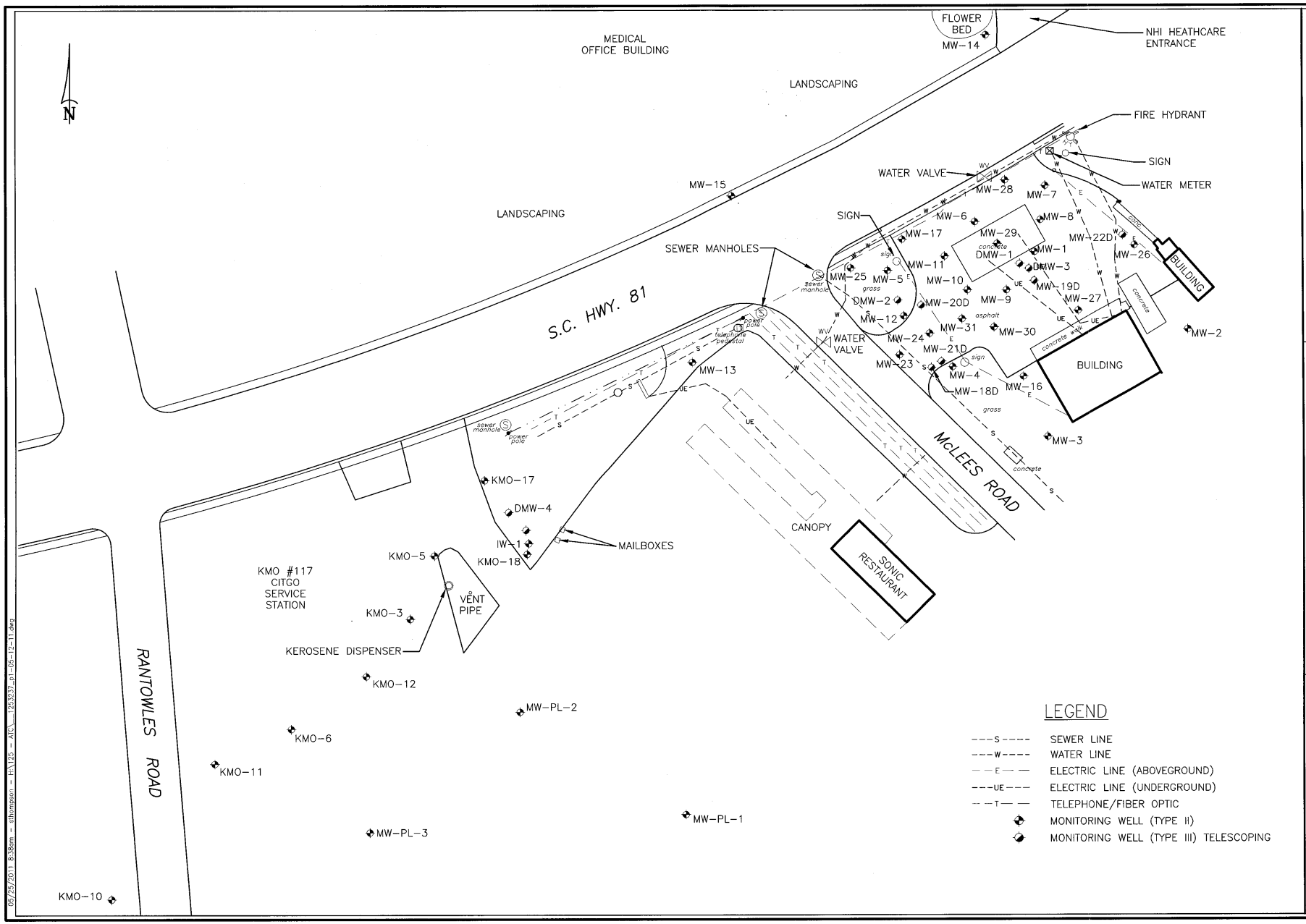
Figure 1: Site Location Map
Pantry #585
1502 East Greenville Street
Anderson, South Carolina
UST Permit #12458

ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q Phone (803) 735-0003
Columbia, South Carolina Fax (803) 735-0443

ATC PROJECT No: 14.25384.0585

SOURCE: USGS Topographic Map Anderson, SC Quadrangle | 1"= 885'



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ATC ASSOCIATES INC.
Columbia, South Carolina 29203 (803) 735-0003 FAX (803) 735-0443

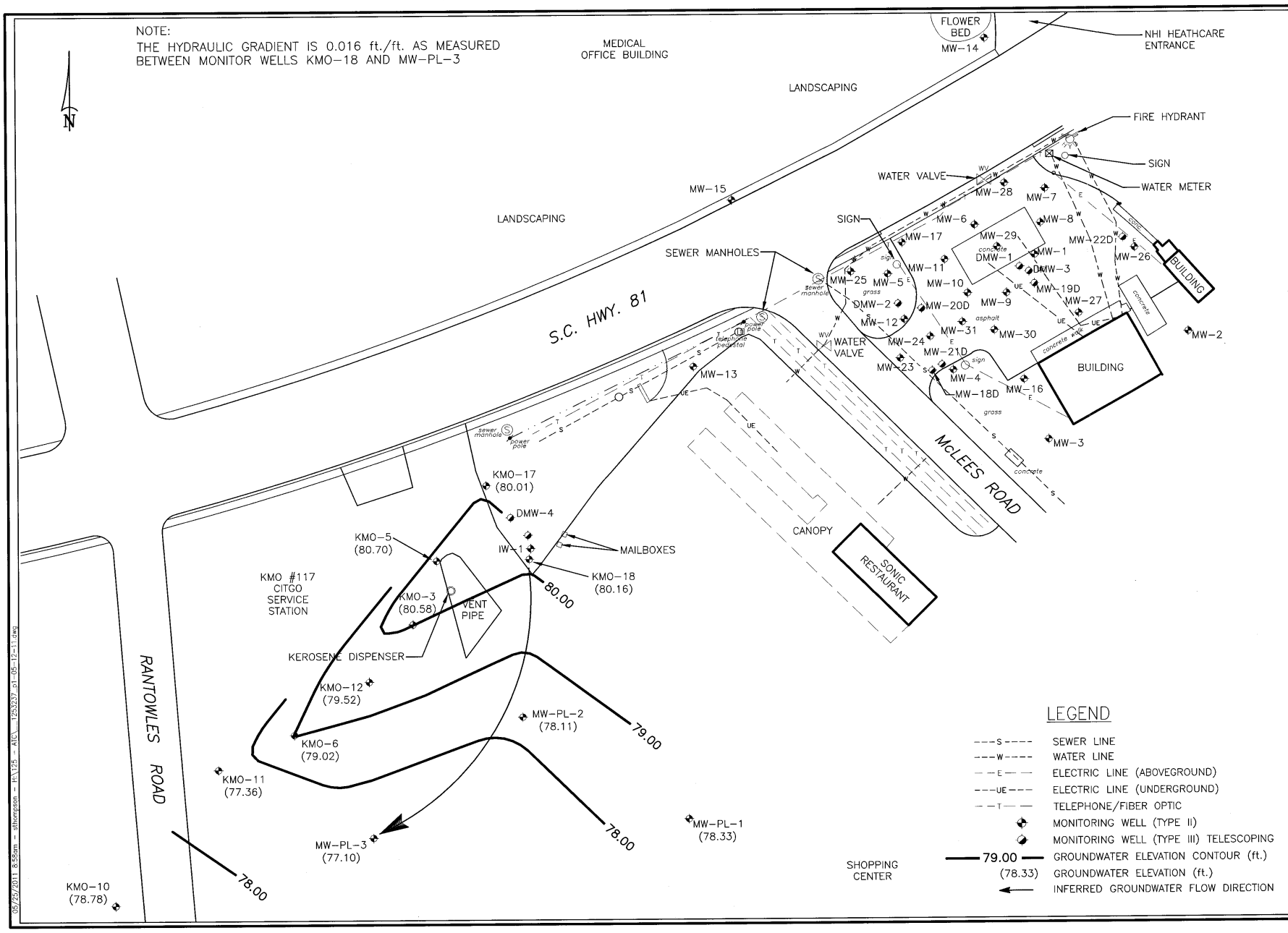
TITLE **FIGURE 2**
SITE MAP
PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

UST PERMIT #12458

CAD FILE	TYPE CODE	PREP. BY	REV. BY	SCALE	DATE	PROJECT NO.
1253237.dwg		CW		1" = 50'	05-11-2011	89.25384.0585

NOTES:

NOTE:
THE HYDRAULIC GRADIENT IS 0.016 ft./ft. AS MEASURED BETWEEN MONITOR WELLS KMO-18 AND MW-PL-3



ATC ASSOCIATES INC.
Columbia, South Carolina 29203 (803) 735-0003 FAX (803) 735-0443

TITLE **FIGURE 3** UST PERMIT #12458
GROUNDWATER ELEVATION CONTOUR MAP
PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

CAD FILE	TYPE CODE	PREP. BY	REV. BY	SCALE	DATE	PROJECT NO.
1253237.dwg		CW		1" = 50'	05-11-2011	89.25384.0585

NOTES:

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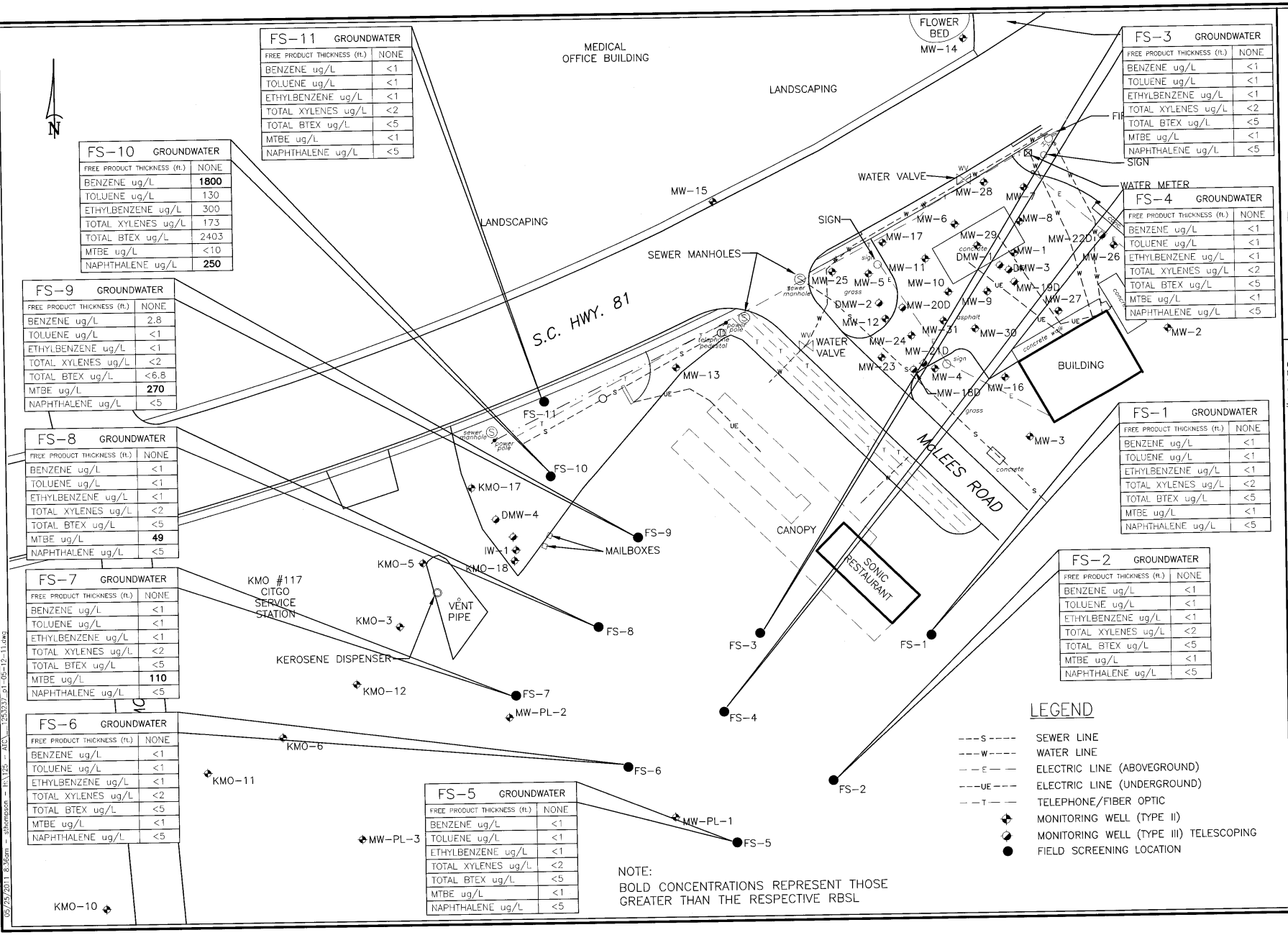

FS-11 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<1
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<5
MTBE ug/L	<1
NAPHTHALENE ug/L	<5

FS-10 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	**1800**
TOLUENE ug/L	130
ETHYLBENZENE ug/L	300
TOTAL XYLENES ug/L	173
TOTAL BTEX ug/L	2403
MTBE ug/L	<10
NAPHTHALENE ug/L	**250**

FS-9 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	2.8
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<6.8
MTBE ug/L	**270**
NAPHTHALENE ug/L	<5

FS-8 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<1
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<5
MTBE ug/L	**49**
NAPHTHALENE ug/L	<5

FS-7 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<1
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<5
MTBE ug/L	**110**
NAPHTHALENE ug/L	<5

FS-6 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<1
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<5
MTBE ug/L	<1
NAPHTHALENE ug/L	<5

FS-5 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<1
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<5
MTBE ug/L	<1
NAPHTHALENE ug/L	<5

FS-3 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<1
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<5
MTBE ug/L	<1
NAPHTHALENE ug/L	<5

FS-4 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<1
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<5
MTBE ug/L	<1
NAPHTHALENE ug/L	<5

FS-1 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<1
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<5
MTBE ug/L	<1
NAPHTHALENE ug/L	<5

FS-2 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<1
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<5
MTBE ug/L	<1
NAPHTHALENE ug/L	<5

NOTE:
BOLD CONCENTRATIONS REPRESENT THOSE GREATER THAN THE RESPECTIVE RBSL

ATC ASSOCIATES INC.
Columbia, South Carolina 29203 (803) 735-0003 FAX (803) 735-0443

TITLE **FIGURE 4**
UST PERMIT #12458
FIELD SCREENING CONCENTRATIONS MAP
PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

PROJECT NO.	DATE	SCALE	REV. BY	PREP. BY	TYPE CODE	CAD FILE
89.25384.0585	05-11-2011	1" = 50'		CW		1253237.dwg

NOTES:

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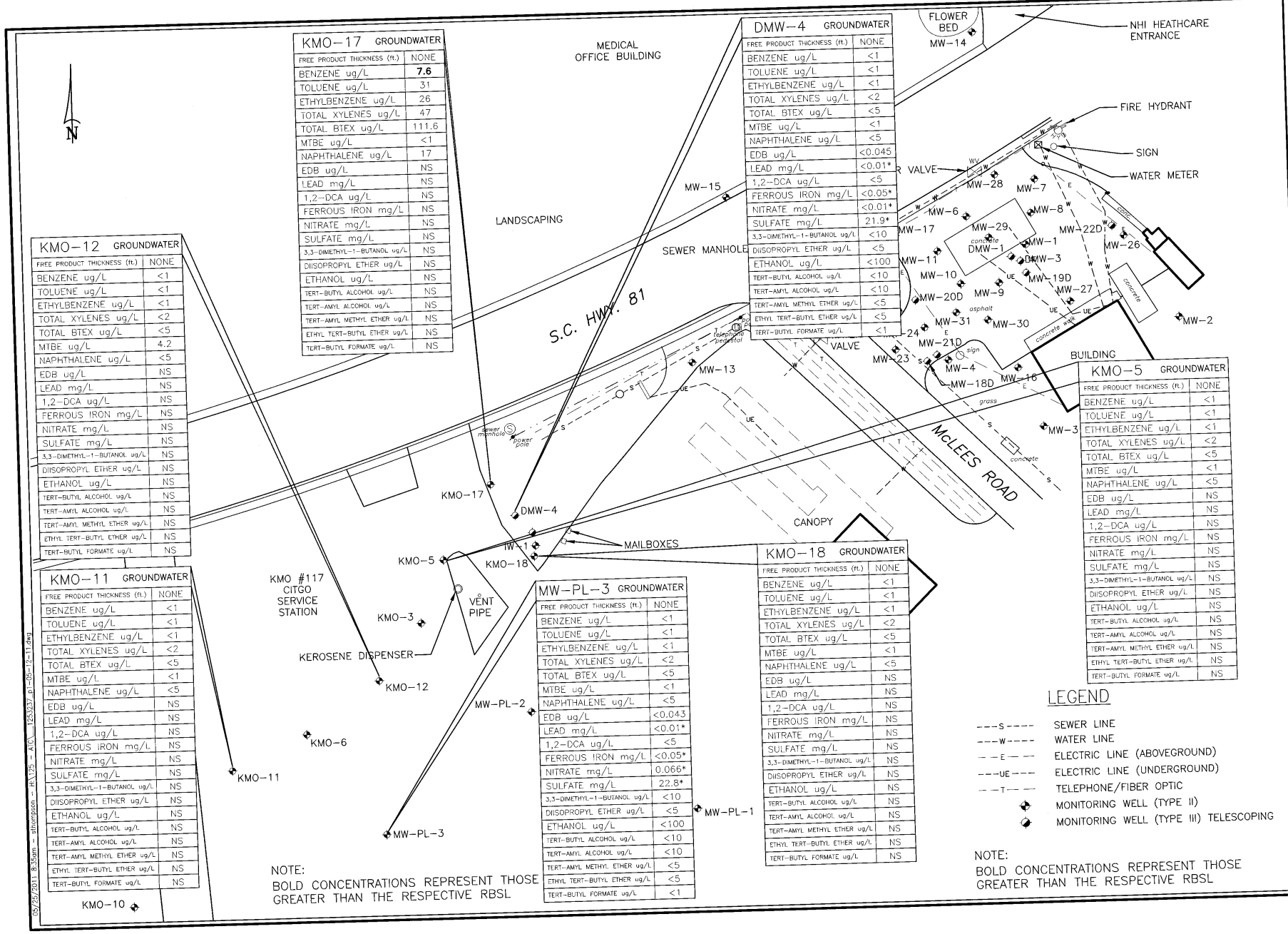

KMO-17 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	**7.6**
TOLUENE ug/L	31
ETHYLBENZENE ug/L	26
TOTAL XYLENES ug/L	47
TOTAL BTEX ug/L	111.6
MTBE ug/L	<1
NAPHTHALENE ug/L	17
EDB ug/L	NS
LEAD mg/L	NS
1,2-DCA ug/L	NS
FERROUS IRON mg/L	NS
NITRATE mg/L	NS
SULFATE mg/L	NS
3,3-DIMETHYL-1-BUTANOL ug/L	NS
DIISOPROPYL ETHER ug/L	NS
ETHANOL ug/L	NS
TERT-BUTYL ALCOHOL ug/L	NS
TERT-AMYL ALCOHOL ug/L	NS
TERT-AMYL METHYL ETHER ug/L	NS
ETHYL TERT-BUTYL ETHER ug/L	NS
TERT-BUTYL FORMATE ug/L	NS

DMW-4 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<1
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<5
MTBE ug/L	<1
NAPHTHALENE ug/L	<5
EDB ug/L	<0.045
LEAD mg/L	<0.01*
1,2-DCA ug/L	<5
FERROUS IRON mg/L	<0.05*
NITRATE mg/L	<0.01*
SULFATE mg/L	21.9*
3,3-DIMETHYL-1-BUTANOL ug/L	<10
DIISOPROPYL ETHER ug/L	<5
ETHANOL ug/L	<100
TERT-BUTYL ALCOHOL ug/L	<10
TERT-AMYL ALCOHOL ug/L	<10
TERT-AMYL METHYL ETHER ug/L	<5
ETHYL TERT-BUTYL ETHER ug/L	<5
TERT-BUTYL FORMATE ug/L	<1

KMO-12 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<1
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<5
MTBE ug/L	4.2
NAPHTHALENE ug/L	<5
EDB ug/L	NS
LEAD mg/L	NS
1,2-DCA ug/L	NS
FERROUS IRON mg/L	NS
NITRATE mg/L	NS
SULFATE mg/L	NS
3,3-DIMETHYL-1-BUTANOL ug/L	NS
DIISOPROPYL ETHER ug/L	NS
ETHANOL ug/L	NS
TERT-BUTYL ALCOHOL ug/L	NS
TERT-AMYL ALCOHOL ug/L	NS
TERT-AMYL METHYL ETHER ug/L	NS
ETHYL TERT-BUTYL ETHER ug/L	NS
TERT-BUTYL FORMATE ug/L	NS

KMO-11 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<1
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<5
MTBE ug/L	<1
NAPHTHALENE ug/L	<5
EDB ug/L	NS
LEAD mg/L	NS
1,2-DCA ug/L	NS
FERROUS IRON mg/L	NS
NITRATE mg/L	NS
SULFATE mg/L	NS
3,3-DIMETHYL-1-BUTANOL ug/L	NS
DIISOPROPYL ETHER ug/L	NS
ETHANOL ug/L	NS
TERT-BUTYL ALCOHOL ug/L	NS
TERT-AMYL ALCOHOL ug/L	NS
TERT-AMYL METHYL ETHER ug/L	NS
ETHYL TERT-BUTYL ETHER ug/L	NS
TERT-BUTYL FORMATE ug/L	NS

MW-PL-3 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<1
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<5
MTBE ug/L	<1
NAPHTHALENE ug/L	<5
EDB ug/L	<0.043
LEAD mg/L	<0.01*
1,2-DCA ug/L	<5
FERROUS IRON mg/L	<0.05*
NITRATE mg/L	0.066*
SULFATE mg/L	22.8*
3,3-DIMETHYL-1-BUTANOL ug/L	<10
DIISOPROPYL ETHER ug/L	<5
ETHANOL ug/L	<100
TERT-BUTYL ALCOHOL ug/L	<10
TERT-AMYL ALCOHOL ug/L	<10
TERT-AMYL METHYL ETHER ug/L	<5
ETHYL TERT-BUTYL ETHER ug/L	<5
TERT-BUTYL FORMATE ug/L	<1

KMO-18 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<1
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<5
MTBE ug/L	<1
NAPHTHALENE ug/L	<5
EDB ug/L	NS
LEAD mg/L	NS
1,2-DCA ug/L	NS
FERROUS IRON mg/L	NS
NITRATE mg/L	NS
SULFATE mg/L	NS
3,3-DIMETHYL-1-BUTANOL ug/L	NS
DIISOPROPYL ETHER ug/L	NS
ETHANOL ug/L	NS
TERT-BUTYL ALCOHOL ug/L	NS
TERT-AMYL ALCOHOL ug/L	NS
TERT-AMYL METHYL ETHER ug/L	NS
ETHYL TERT-BUTYL ETHER ug/L	NS
TERT-BUTYL FORMATE ug/L	NS

KMO-5 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<1
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<5
MTBE ug/L	<1
NAPHTHALENE ug/L	<5
EDB ug/L	NS
LEAD mg/L	NS
1,2-DCA ug/L	NS
FERROUS IRON mg/L	NS
NITRATE mg/L	NS
SULFATE mg/L	NS
3,3-DIMETHYL-1-BUTANOL ug/L	NS
DIISOPROPYL ETHER ug/L	NS
ETHANOL ug/L	NS
TERT-BUTYL ALCOHOL ug/L	NS
TERT-AMYL ALCOHOL ug/L	NS
TERT-AMYL METHYL ETHER ug/L	NS
ETHYL TERT-BUTYL ETHER ug/L	NS
TERT-BUTYL FORMATE ug/L	NS

NOTE:
BOLD CONCENTRATIONS REPRESENT THOSE GREATER THAN THE RESPECTIVE RBSL

LEGEND

- ---S---- SEWER LINE
- ---W---- WATER LINE
- --E-- ELECTRIC LINE (ABOVEGROUND)
- ---UE--- ELECTRIC LINE (UNDERGROUND)
- --T-- TELEPHONE/FIBER OPTIC
- MONITORING WELL (TYPE II)
- MONITORING WELL (TYPE III) TELESCOPING

NOTE:
BOLD CONCENTRATIONS REPRESENT THOSE GREATER THAN THE RESPECTIVE RBSL

ATC ASSOCIATES INC.
Columbia, South Carolina 29203 (803) 735-0003 FAX (803) 735-0443

TITLE **FIGURE 5A** UST PERMIT #12458
GROUNDWATER CONCENTRATIONS MAP
PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

SCALE	DATE	PROJECT NO.
1" = 50'	05-11-2011	89.25384.0585

CAD FILE	TYPE CODE	PREP. BY	REV. BY
1253237.dwg		CW	

NOTES:

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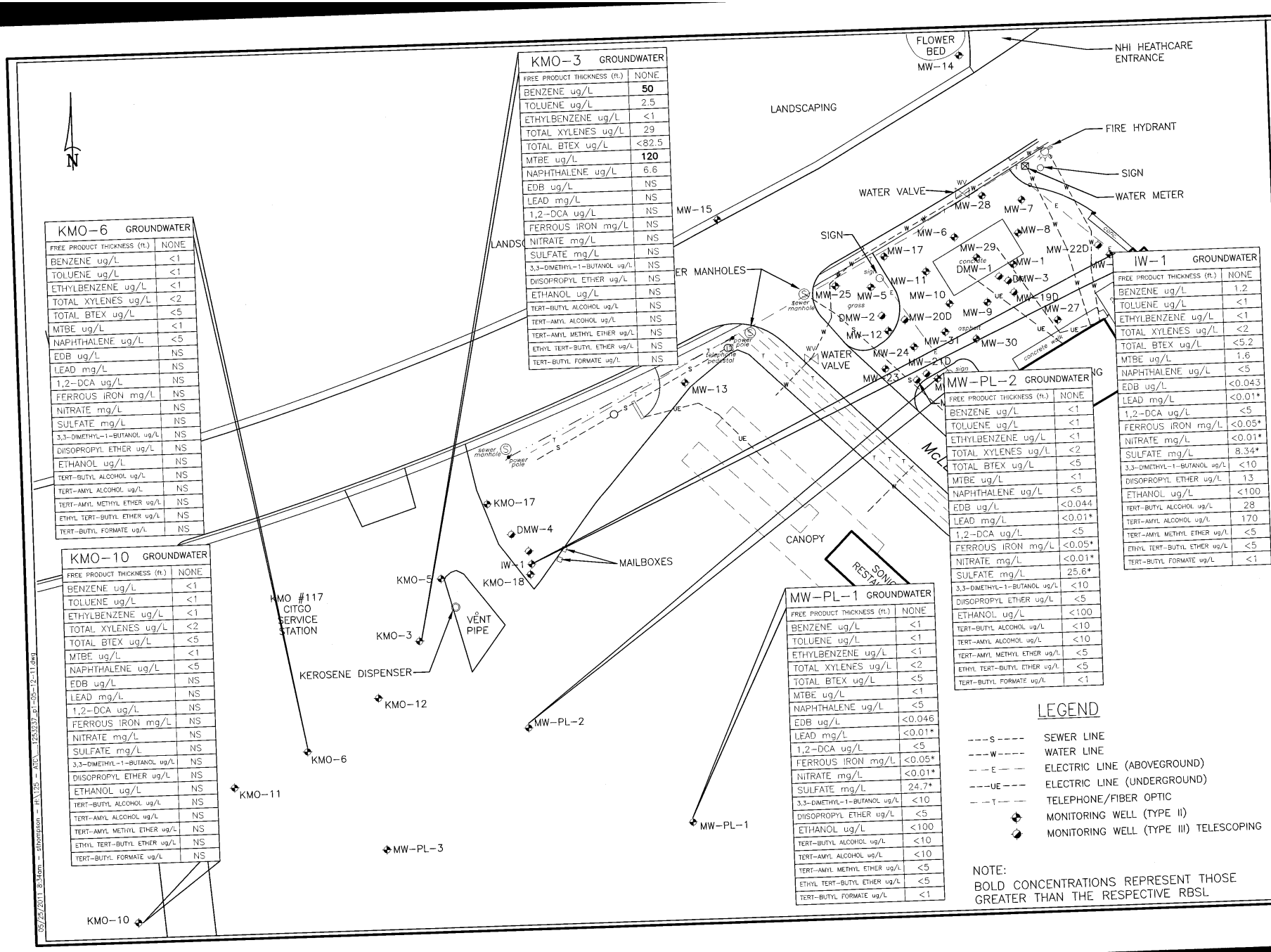

KMO-3 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	**50**
TOLUENE ug/L	2.5
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	29
TOTAL BTEX ug/L	<82.5
MTBE ug/L	**120**
NAPHTHALENE ug/L	6.6
EDB ug/L	NS
LEAD mg/L	NS
1,2-DCA ug/L	NS
FERROUS IRON mg/L	NS
NITRATE mg/L	NS
SULFATE mg/L	NS
3,3-DIMETHYL-1-BUTANOL ug/L	NS
DIISOPROPYL ETHER ug/L	NS
ETHANOL ug/L	NS
TERT-BUTYL ALCOHOL ug/L	NS
TERT-AMYL ALCOHOL ug/L	NS
TERT-AMYL METHYL ETHER ug/L	NS
ETHYL TERT-BUTYL ETHER ug/L	NS
TERT-BUTYL FORMATE ug/L	NS

KMO-6 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<1
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<5
MTBE ug/L	<1
NAPHTHALENE ug/L	<5
EDB ug/L	NS
LEAD mg/L	NS
1,2-DCA ug/L	NS
FERROUS IRON mg/L	NS
NITRATE mg/L	NS
SULFATE mg/L	NS
3,3-DIMETHYL-1-BUTANOL ug/L	NS
DIISOPROPYL ETHER ug/L	NS
ETHANOL ug/L	NS
TERT-BUTYL ALCOHOL ug/L	NS
TERT-AMYL ALCOHOL ug/L	NS
TERT-AMYL METHYL ETHER ug/L	NS
ETHYL TERT-BUTYL ETHER ug/L	NS
TERT-BUTYL FORMATE ug/L	NS

KMO-10 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<1
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<5
MTBE ug/L	<1
NAPHTHALENE ug/L	<5
EDB ug/L	NS
LEAD mg/L	NS
1,2-DCA ug/L	NS
FERROUS IRON mg/L	NS
NITRATE mg/L	NS
SULFATE mg/L	NS
3,3-DIMETHYL-1-BUTANOL ug/L	NS
DIISOPROPYL ETHER ug/L	NS
ETHANOL ug/L	NS
TERT-BUTYL ALCOHOL ug/L	NS
TERT-AMYL ALCOHOL ug/L	NS
TERT-AMYL METHYL ETHER ug/L	NS
ETHYL TERT-BUTYL ETHER ug/L	NS
TERT-BUTYL FORMATE ug/L	NS

IW-1 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	1.2
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<5.2
MTBE ug/L	1.6
NAPHTHALENE ug/L	<5
EDB ug/L	<0.043
LEAD mg/L	<0.01*
1,2-DCA ug/L	<5
FERROUS IRON mg/L	<0.05*
NITRATE mg/L	<0.01*
SULFATE mg/L	8.34*
3,3-DIMETHYL-1-BUTANOL ug/L	<10
DIISOPROPYL ETHER ug/L	13
ETHANOL ug/L	<100
TERT-BUTYL ALCOHOL ug/L	28
TERT-AMYL ALCOHOL ug/L	170
TERT-AMYL METHYL ETHER ug/L	<5
ETHYL TERT-BUTYL ETHER ug/L	<5
TERT-BUTYL FORMATE ug/L	<1

MW-PL-2 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<1
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<5
MTBE ug/L	<1
NAPHTHALENE ug/L	<5
EDB ug/L	<0.044
LEAD mg/L	<0.01*
1,2-DCA ug/L	<5
FERROUS IRON mg/L	<0.05*
NITRATE mg/L	<0.01*
SULFATE mg/L	25.6*
3,3-DIMETHYL-1-BUTANOL ug/L	<10
DIISOPROPYL ETHER ug/L	<5
ETHANOL ug/L	<100
TERT-BUTYL ALCOHOL ug/L	<10
TERT-AMYL ALCOHOL ug/L	<10
TERT-AMYL METHYL ETHER ug/L	<5
ETHYL TERT-BUTYL ETHER ug/L	<5
TERT-BUTYL FORMATE ug/L	<1

MW-PL-1 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<1
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<5
MTBE ug/L	<1
NAPHTHALENE ug/L	<5
EDB ug/L	<0.046
LEAD mg/L	<0.01*
1,2-DCA ug/L	<5
FERROUS IRON mg/L	<0.05*
NITRATE mg/L	<0.01*
SULFATE mg/L	24.7*
3,3-DIMETHYL-1-BUTANOL ug/L	<10
DIISOPROPYL ETHER ug/L	<5
ETHANOL ug/L	<100
TERT-BUTYL ALCOHOL ug/L	<10
TERT-AMYL ALCOHOL ug/L	<10
TERT-AMYL METHYL ETHER ug/L	<5
ETHYL TERT-BUTYL ETHER ug/L	<5
TERT-BUTYL FORMATE ug/L	<1

LEGEND

- ---S---- SEWER LINE
- ---W---- WATER LINE
- --E-- ELECTRIC LINE (ABOVEGROUND)
- ---UE--- ELECTRIC LINE (UNDERGROUND)
- --T-- TELEPHONE/FIBER OPTIC
- MONITORING WELL (TYPE II)
- MONITORING WELL (TYPE III) TELESCOPING

NOTE:
BOLD CONCENTRATIONS REPRESENT THOSE GREATER THAN THE RESPECTIVE RBSL

ATC ASSOCIATES INC.
Columbia, South Carolina 29203
(803) 735-0003 FAX (803) 735-0443

TITLE **FIGURE 5B** UST PERMIT #12458
GROUNDWATER CONCENTRATIONS MAP
PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

PROJECT NO.	DATE	SCALE	REV. BY	PREP. BY	TYPE CODE	CAD FILE
89.25384.0585	05-11-2011	1" = 50'		CW		1253237.dwg

NOTES:

05/25/2011 8:34am – sthompson – H:\126 – ATC_ 1253237_p1-05-12-11.dwg

APPENDIX A

SCDHEC Correspondence

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

FEB 1 0 2010

RECEIVED FEB 1 1 2010 BY:

MR BRENT PUZAK
PANTRY INC
PO BOX 1410
SANFORD NC 27331-1410

Re: Assessment Report Directive
81 Food Mart (Former Pantry #585), 1502 East Greenville Street, Anderson, SC
UST Permit #12458; CA #38230: MWA #UMW-23466
Release reported November 10, 1992
AFVR and Tier II Report received March 31, 2009
Tier II Assessment Plan and Cost Proposal received January 28, 2010
Anderson County

Dear Mr. Puzak:

The Underground Storage Tank (UST) Division of the South Carolina Department of Health and Environmental Control (SCDHEC) recognizes your commitment to continue work at this site utilizing your own contractor. The UST Division has reviewed the referenced Tier II Assessment Plan and cost agreement submitted by ATC Associates Columbia. The assessment should be conducted in accordance with the Tier II Assessment guidance document and must be conducted in compliance with all applicable regulations. All shallow wells are to be installed with screen intervals that bracket the water table. The Tier II assessment document and appendices may be obtained from our website at http://www.scdhec.gov/environment/lwm/html/ust_guidance_docs.htm.

Assessment activities at the site should begin immediately upon receipt of this letter. Cost agreement number 38230 has been approved for the amount shown on the enclosed cost agreement form. Please be aware that the February 1, 2006 SUPERB Allowable Costs sheet states that "If vertical and horizontal extent of chemicals of concern are not fully defined by this tier report, additional mobilizations may not be approved by the Department." Therefore, equipment mobilization costs have not been approved for this scope of work. **Please contact the department prior to well installation for concurrence regarding the final well locations.** No-purge sampling is required for previously installed monitoring wells (except deep wells) where the screens bracket the water table.

Please note the following adjustments to the submitted cost agreement:

- Equipment mobilizations were deleted, as the plume was not previously defined.
- Personnel mobilizations were reduced from five to four.
- Monitoring well installation has been changed from hand auger to drilled (Item 9.A. to 9.B.). One shallow well has been added. This well should be installed in the impacted area south of MW-12 so the plume can be modeled.
- Deep monitoring well has been approved for 63 feet **(if necessary)** for a telescoping well adjacent to the added shallow well to ensure the vertical extent of the plume is defined. Please note that the screens of the permanent monitoring wells must bracket the water table, and all monitoring well locations must be technically justified or installation costs will not be approved. Field screening points converted to wells will be compensated at the permanent well installation rate.
- BTEX, naphthalene and MtBE laboratory analyses has been increased to include analyses of MW-6, MW-10, MW-11, MW-12, MW-17 and MW-18 associated with KMO #117 (UST Permit # 00707).

2010 Ltd
1-2010-0017

Due 5/11/2010

- The comprehensive survey should include the monitoring wells associated with former Pantry #585 and KMO 117 (UST Permit #00707).

ATC Columbia office can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Please note that all applicable South Carolina certification requirements apply to the laboratory services, well installation, and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

A Report of Findings and the invoice are due within 90 days from the date of this letter. An interim well drilling invoice may be submitted for this scope of work. If the invoice and completed report are 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. Please note, if unnecessary dilutions are completed resulting in reporting limits of individual Chemicals of Concern (CoC) in excess of Risk-Based Screening Levels (RBSLs), the Department may deny payment for any non-detect analysis where the reporting limit exceeds the RBSL. The UST Division encourages the use of 'J' values as necessary.

Please note that you and/or your contractor are responsible for obtaining all off-site access agreements and/or encroachment permits necessary for this scope of work.

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 the Division is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the Department for the cost to be paid. 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. Further, SCDHEC reserves the right to question and/or reject costs if deemed unreasonable. The SCDHEC reserves the right to audit project records at any time during the project or after completion of work.

The Department 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 COC concentrations based on laboratory analysis are below Risk Based Screening Levels (RBSLs), 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 regarding this site and scope of work, please reference UST Permit number12458. If you have any questions concerning this correspondence, please contact me at (803) 896-6669, fax me at (803) 896-6245, or e-mail me at shradeaa@dhec.sc.gov.

Sincerely,

Arthur Shrader, Hydrogeologist
Assessment Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc.: Approved Cost Agreement
Monitoring Well Approval (MWA)(copy)

cc: ATC Associates, 400 Northwest Dr., STE Q, Columbia, SC 29203 (with enc.)
Technical File (with enc.)

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

JAN 14 2011

RECEIVED
JAN 18 2011
ENVIRONMENTAL

MR BRENT PUZAK
PANTRY INC
PO BOX 1410
SANFORD NC 27331-1410

Re: Review of Screening Data
81 Food Mart (Former Pantry #585), 1502 East Greenville Street, Anderson, SC
UST Permit #12458; CA #38230: MWA #UMW-23466
Release reported November 10, 1992
Tier II Assessment Plan and Cost Proposal received January 28, 2010
Assessment Report Directive dated February 10, 2010
Screening Data received January 5, 2011
Anderson County

Dear Mr. Puzak:

The Underground Storage Tank (UST) Division of the South Carolina Department of Health and Environmental Control (SCDHEC) recognizes your commitment to continue work at this site utilizing ATC Associates. The UST Division has reviewed the referenced screening data and agrees monitoring wells need to define the horizontal and vertical extent of the plume. An intermediate well with a screen between 15 to 20 feet and deep pit cased well should be installed adjacent to monitoring well KMO-18. Additionally shallow monitoring wells with a 10-foot screen that brackets the water table should be installed in the vicinity of screening points FS-4, FS-7 and approximately 90 feet south of monitoring well KMO MW-12. In addition to monitoring wells associated with the referenced site, please sample the following monitoring wells associated with KMO # 117 (UST Permit #00707) KMO MW-3, KMO MW-5, KMO MW-12, KMO MW-17, and KMO MW-18.

An addendum to cost agreement number 38243 and revision to Monitoring Well Approval number UMW-23466 will be provided for the costs associated with the field screening activities, well installation and groundwater sampling of the additional wells.

On all correspondence regarding this site and scope of work, please reference UST Permit number12458. If you have any questions concerning this correspondence, please contact me at (803) 896-6669, fax me at (803) 896-6245, or e-mail me at shradeaa@dhec.sc.gov.

Sincerely,

Arthur Shrader, Hydrogeologist
Assessment Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc.: Groundwater Field Screening Map with Approximate Well Locations

cc: Ms. McLeod, Enforcement Section (with enc.)
Ms. Fuller Ken Moorhead Oil Company, Inc. PO Box 2587, Anderson, SC 29622 (without enc.)
ATC Associates 400 Northwest Dr., STE Q, Columbia, SC 29203 (with enc.)
Technical File (with enc.)

APPENDIX B

Field Screen Soil Boring Logs

FIELD SCREEN BORING LOG

PROJECT NAME:	Pantry #585	BORING I.D.:	FS-1
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	12/15/2010
PROJECT LOCATION:	1502 East Greenville St. Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Direct Push
		BORING DIAMETER:	1.5"
CLIENT:	The Pantry, Inc.	SAMPLING METHOD/INTERVAL:	
LOGGED BY:	Chad L. Wash	REMARKS:	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					1.0	
					2.0	
					3.0	
					4.0	
					5.0	
					6.0	
					7.0	
					8.0	
	*				9.0	gw sample collected @ approx. 8-10 ft. bgs
					10.0	
					11.0	
					12.0	

DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

- * -Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, SC 29203

FIELD SCREEN BORING LOG

PROJECT NAME:	Pantry #585	BORING I.D.:	FS-2
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	12/15/2010
PROJECT LOCATION:	1502 East Greenville St. Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Direct Push
		BORING DIAMETER:	1.5"
CLIENT:	The Pantry, Inc.	SAMPLING METHOD/INTERVAL:	
LOGGED BY:	Chad L. Wash	REMARKS:	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					1.0	
					2.0	
					3.0	
					4.0	
					5.0	
					6.0	
					7.0	
					8.0	
	*				9.0	gw sample collected @ approx. 8-10 ft. bgs
					10.0	
					11.0	
					12.0	

DRILLING METHODS
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MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

- * -Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

VATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, SC 29203

FIELD SCREEN BORING LOG

PROJECT NAME:	Pantry #585	BORING I.D.:	FS-3
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	12/15/2010
PROJECT LOCATION:	1502 East Greenville St. Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Direct Push
		BORING DIAMETER:	1.5"
CLIENT:	The Pantry, Inc.	SAMPLING METHOD/INTERVAL:	
LOGGED BY:	Chad L. Wash	REMARKS:	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					1.0	
					2.0	
					3.0	
					4.0	
					5.0	
					6.0	
					7.0	
					8.0	
	*			V	9.0	gw sample collected @ approx. 8-10 ft. bgs
					10.0	
					11.0	
					12.0	

DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

- * -Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

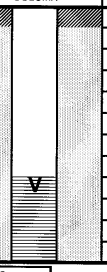
ATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, SC 29203

FIELD SCREEN BORING LOG

PROJECT NAME:	Pantry #585	BORING I.D.:	FS-4
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	12/15/2010
PROJECT LOCATION:	1502 East Greenville St. Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Direct Push
		BORING DIAMETER:	1.5"
CLIENT:	The Pantry, Inc.	SAMPLING METHOD/INTERVAL:	
LOGGED BY:	Chad L. Wash	REMARKS:	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					1.0	
					2.0	
					3.0	
					4.0	
					5.0	
					6.0	
					7.0	
					8.0	
	*				9.0	gw sample collected @ approx. 8-10 ft. bgs
					10.0	
					11.0	
					12.0	



DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

- * -Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

VATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, SC 29203

FIELD SCREEN BORING LOG

PROJECT NAME:	Pantry #585	BORING I.D.:	FS-5
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	12/15/2010
PROJECT LOCATION:	1502 East Greenville St. Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Direct Push
		BORING DIAMETER:	1.5"
CLIENT:	The Pantry, Inc.	SAMPLING METHOD/INTERVAL:	
LOGGED BY:	Chad L. Wash	REMARKS:	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					1.0	
					2.0	
					3.0	
					4.0	
					5.0	
					6.0	
					7.0	
					8.0	
	*				9.0	gw sample collected @ approx. 8-10 ft. bgs
					10.0	
					11.0	
					12.0	

DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

- * -Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

VATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, SC 29203

FIELD SCREEN BORING LOG

PROJECT NAME:	Pantry #585	BORING I.D.:	FS-6
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	12/15/2010
PROJECT LOCATION:	1502 East Greenville St. Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Direct Push
		BORING DIAMETER:	1.5"
CLIENT:	The Pantry, Inc.	SAMPLING METHOD/INTERVAL:	
LOGGED BY:	Chad L. Wash	REMARKS:	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					1.0	
					2.0	
					3.0	
					4.0	
					5.0	
					6.0	
					7.0	
					8.0	
	*				9.0	gw sample collected @ approx. 8-10 ft. bgs
					10.0	
					11.0	
					12.0	

DRILLING METHODS
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MD - MUD DRILLING
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- * -Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

VATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, SC 29203

FIELD SCREEN BORING LOG

PROJECT NAME:	Pantry #585	BORING I.D.:	FS-7
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	12/15/2010
PROJECT LOCATION:	1502 East Greenville St. Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Direct Push
		BORING DIAMETER:	1.5"
CLIENT:	The Pantry, Inc.	SAMPLING METHOD/INTERVAL:	
LOGGED BY:	Chad L. Wash	REMARKS:	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					1.0	
					2.0	
					3.0	
					4.0	
					5.0	
					6.0	
					7.0	
					8.0	
	*			V	9.0	gw sample collected @ approx. 8-10 ft. bgs
					10.0	
					11.0	
					12.0	

DRILLING METHODS
AIR - AIR ROTARY
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- * -Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

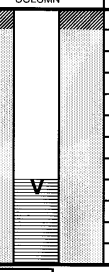
VATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, SC 29203

FIELD SCREEN BORING LOG

PROJECT NAME:	Pantry #585	BORING I.D.:	FS-8
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	12/15/2010
PROJECT LOCATION:	1502 East Greenville St. Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Direct Push
		BORING DIAMETER:	1.5"
CLIENT:	The Pantry, Inc.	SAMPLING METHOD/INTERVAL:	
LOGGED BY:	Chad L. Wash	REMARKS:	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					1.0	
					2.0	
					3.0	
					4.0	
					5.0	
					6.0	
					7.0	
					8.0	
	*				9.0	gw sample collected @ approx. 8-10 ft. bgs
					10.0	
					11.0	
					12.0	



DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
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ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

VATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, SC 29203

FIELD SCREEN BORING LOG

PROJECT NAME:	Pantry #585	BORING I.D.:	FS-9
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	12/15/2010
PROJECT LOCATION:	1502 East Greenville St. Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Direct Push
		BORING DIAMETER:	1.5"
CLIENT:	The Pantry, Inc.	SAMPLING METHOD/INTERVAL:	
LOGGED BY:	Chad L. Wash	REMARKS:	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					1.0	
					2.0	
					3.0	
					4.0	
					5.0	
					6.0	
					7.0	
					8.0	
	*			V	9.0	gw sample collected @ approx. 8-10 ft. bgs
					10.0	
					11.0	
					12.0	

DRILLING METHODS
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WR - WATER ROTARY

- * -Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

VATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, SC 29203

FIELD SCREEN BORING LOG

PROJECT NAME:	Pantry #585	BORING I.D.:	FS-10
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	12/15/2010
PROJECT LOCATION:	1502 East Greenville St. Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Direct Push
		BORING DIAMETER:	1.5"
CLIENT:	The Pantry, Inc.	SAMPLING METHOD/INTERVAL:	
LOGGED BY:	Chad L. Wash	REMARKS:	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					1.0	
					2.0	
					3.0	
					4.0	
					5.0	
					6.0	
					7.0	
					8.0	
	*				9.0	gw sample collected @ approx. 8-10 ft. bgs
					10.0	
					11.0	
					12.0	

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- * -Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

VATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, SC 29203

FIELD SCREEN BORING LOG

PROJECT NAME:	Pantry #585	BORING I.D.:	FS-11
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	12/15/2010
PROJECT LOCATION:	1502 East Greenville St. Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Direct Push
		BORING DIAMETER:	1.5"
CLIENT:	The Pantry, Inc.	SAMPLING METHOD/INTERVAL:	
LOGGED BY:	Chad L. Wash	REMARKS:	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					1.0	
					2.0	
					3.0	
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					5.0	
					6.0	
					7.0	
					8.0	
	*				9.0	gw sample collected @ approx. 8-10 ft. bgs
					10.0	
					11.0	
					12.0	

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-- * -Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, SC 29203

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: The Pantry, Inc. (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY:
Name: Pantry #585
Street Address: 1502 East Greenville St.
City: Anderson, SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 12 ft. to 0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: FS-1

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

7. PERMIT NUMBER: 12458

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

9. WELL DEPTH (completed) Date Started: 12/15/10
12 ft. Date Completed: 12/15/10

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

11. SCREEN:
Type: Diam.:
Slot/Gauge: Length:
Set Between: ft. and ft.
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

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

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 12 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes ☐ No Type: Amount:

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

19. WELL DRILLER: Tommy Bolyard CERT. NO.: 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: 704.607.7529 Fax No.: 803.548.2233

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

Signed: Well Driller Date: 12/16/11

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

DHEC
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: The Pantry, Inc. (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY:
Name: Pantry #585
Street Address: 1502 East Greenville St.
City: Anderson, SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 12 ft. to 0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: FS-2

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

7. PERMIT NUMBER: 12458

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

9. WELL DEPTH (completed) Date Started: 12/15/10
12 ft. Date Completed: 12/15/10

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

11. SCREEN:
Type: ____ Diam.: ____
Slot/Gauge: ____ Length: ____
Set Between: ____ ft. and ____ ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

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

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other ____
Depth: From 12 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type ____
Well Disinfected ☐ Yes ☐ No Type: ____ Amount: ____

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

19. WELL DRILLER: Tommy Bolyard CERT. NO.: 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: 704.607.7529 Fax No.: 803.548.2233

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

Signed: ____ Date: 12/16/11
Well Driller

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

D H E C

PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: The Pantry, Inc. (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:**
Name: Pantry #585
Street Address: 1502 East Greenville St.
City: Anderson, SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 12 ft. to 0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: FS-3

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

7. PERMIT NUMBER: 12458

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

9. WELL DEPTH (completed) Date Started: 12/15/10
12 ft. Date Completed: 12/15/10

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

11. SCREEN:
Type: ____ Diam.: ____
Slot/Gauge: ____ Length: ____
Set Between: ____ ft. and ____ ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

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

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other ____
Depth: From 12 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type ____
Well Disinfected ☐ Yes ☐ No Type: ____ Amount: ____

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

19. WELL DRILLER: Tommy Bolyard **CERT. NO.:** 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: 704.607.7529 Fax No.: 803.548.2233

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

Signed: Tommy Bolyard (Well Driller) Date: 12/16/11

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

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

D H E C

PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: The Pantry, Inc.
(last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:**
Name: Pantry #585
Street Address: 1502 East Greenville St.
City: Anderson, SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 12 ft to 0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: FS-4

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

7. PERMIT NUMBER: 12458

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

9. WELL DEPTH (completed) Date Started: 12/15/10
12 ft. Date Completed: 12/15/10

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

11. SCREEN:
Type: Diam.:
Slot/Gauge: Length:
Set Between: ft. and ft.
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

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

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 12 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes ☐ No Type: Amount:

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

19. WELL DRILLER: Tommy Bolyard **CERT. NO.:** 1846
Address: (Print) Level: A B C D (circle one)
17538 Greenhill Rd, Char, NC 28278
Telephone No.: 704.607.7529 Fax No.: 803.548.2233

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

Signed: Tommy Bolyard Date: 12/16/11
Well Driller

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: The Pantry, Inc. (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY:
Name: Pantry #585
Street Address: 1502 East Greenville St.
City: Anderson, SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 12 ft. to 0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: FS-5

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

7. PERMIT NUMBER: 12458

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

9. WELL DEPTH (completed) Date Started: 12/15/10
12 ft. Date Completed: 12/15/10

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

11. SCREEN:
Type: Diam.:
Slot/Gauge: Length:
Set Between: ft. and ft.
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

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

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 12 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes ☐ No Type: Amount:

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

19. WELL DRILLER: Tommy Bolyard CERT. NO.: 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: 704.607.7529 Fax No.: 803.548.2233

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

Signed: Well Driller Date: 12/16/11

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: The Pantry, Inc. (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:**
Name: Pantry #585
Street Address: 1502 East Greenville St.
City: Anderson, SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 12 ft. to 0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: FS-6

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

7. PERMIT NUMBER: 12458

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

9. WELL DEPTH (completed) Date Started: 12/15/10
12 ft. Date Completed: 12/15/10

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

11. SCREEN:
Type: _____ Diam.: _____
Slot/Gauge: _____ Length: _____
Set Between: _____ ft. and _____ ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

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

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 12 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

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

19. WELL DRILLER: Tommy Bolyard **CERT. NO.:** 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: 704.607.7529 Fax No.: 803.548.2233

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

Signed: _____ Date: 12/16/11
Well Driller

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

D H E C

PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: The Pantry, Inc. (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY:
Name: Pantry #585
Street Address: 1502 East Greenville St.
City: Anderson, SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 12 ft. to 0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: FS-7

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

7. PERMIT NUMBER: 12458

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

9. WELL DEPTH (completed) Date Started: 12/15/10
12 ft. Date Completed: 12/15/10

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

11. SCREEN:
Type: Diam.:
Slot/Gauge: Length:
Set Between: ft. and ft.
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

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

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 12 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes ☐ No Type: Amount:

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

19. WELL DRILLER: Tommy Bolyard CERT. NO.: 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: 704.607.7529 Fax No.: 803.548.2233

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

Signed: Date: 12/16/11
Well Driller

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

DHEC
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: The Pantry, Inc. (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY:
Name: Pantry #585
Street Address: 1502 East Greenville St.
City: Anderson, SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 12 ft. to 0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum

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

5. REMARKS:
Well ID#: FS-8

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

7. PERMIT NUMBER: 12458

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

9. WELL DEPTH (completed) 12 ft. Date Started: 12/15/10 Date Completed: 12/15/10

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

11. SCREEN:
Type: Diam.:
Slot/Gauge: Length:
Set Between: ft. and ft. ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

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

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 12 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes ☐ No Type: Amount:

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

19. WELL DRILLER: Tommy Bolyard **CERT. NO.:** 1846
Address: (Print) 17538 Greenhill Rd, Char, NC 28278
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704.607.7529 Fax No.: 803.548.2233

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

Signed: [signature] Well Driller Date: 12/16/11

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

DHEC
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: The Pantry, Inc.
(last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY:
Name: Pantry #585
Street Address: 1502 East Greenville St.
City: Anderson, SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 12 ft. to 0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum

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

5. REMARKS:
Well ID#: FS-9

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

7. PERMIT NUMBER: 12458

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

9. WELL DEPTH (completed) Date Started: 12/15/10
12 ft. Date Completed: 12/15/10

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

11. SCREEN:
Type: Diam.:
Slot/Gauge: Length:
Set Between: ft. and ft. **NOTE: MULTIPLE SCREENS**
ft. and ft. **USE SECOND SHEET**
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

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

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 12 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes ☐ No Type: Amount:

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

19. WELL DRILLER: Tommy Bolyard **CERT. NO.:** 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: 704.607.7529 Fax No.: 803.548.2233

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

Signed: [signature] Date: 12/16/11
Well Driller

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

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: The Pantry, Inc. (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY:
Name: Pantry #585
Street Address: 1502 East Greenville St.
City: Anderson, SC Zip:
Latitude: Longitude

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 12 ft. to 0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS: Well ID#: FS-10		

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

7. PERMIT NUMBER: 12458

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

9. WELL DEPTH (completed) Date Started: 12/15/10
12 ft. Date Completed: 12/15/10

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

11. SCREEN:
Type: ____ Diam: ____
Slot/Gauge ____ Length: ____
Set Between ____ ft. and ____ ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

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

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other ____
Depth: From 12 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type ____
Well Disinfected ☐ Yes ☐ No Type: ____ Amount: ____

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

19. WELL DRILLER: Tommy Bolyard CERT. NO.: 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: 704.607.7529 Fax No.: 803.548.2233

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

Signed: Tommy Bolyard (Well Driller) Date: 12/16/11

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

D H E C

PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: The Pantry, Inc. (last) (first)
Address: PO Box 1410
City: Sanford State NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY:
Name: Pantry #585
Street Address: 1502 East Greenville St.
City: Anderson, SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 12 ft to 0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: FS-11

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

7. PERMIT NUMBER: 12458

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

9. WELL DEPTH (completed) Date Started: 12/15/10
12 ft. Date Completed: 12/15/10

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

11. SCREEN:
Type: Diam.:
Slot/Gauge: Length:
Set Between: ft and ft.
ft and ft.
Sieve Analysis ☐ Yes (please enclose) ☐ No
NOTE: MULTIPLE SCREENS USE SECOND SHEET

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

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

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

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

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 12 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes ☐ No Type: Amount:

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

19. WELL DRILLER: Tommy Bolyard **CERT. NO.:** 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: 704.607.7529 Fax No.: 803.548.2233

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

Signed: Well Driller Date: 12/16/11

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

APPENDIX C

Monitor Well Construction Logs

MONITORING WELL CONSTRUCTION LOG

PROJECT NAME:	Pantry #585	BORING I.D.:	MW-PL-1
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	3/7/2011

PROJECT LOCATION:	1502 East Greenville St. Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	HS Auger
		BORING DIAMETER:	6.5"
CLIENT:	The Pantry, Inc.	SAMPLING METHOD/INTERVAL:	5 Ft.
LOGGED BY:	Chad L. Wash	REMARKS:	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					1.0	
					2.0	
					3.0	
					4.0	
5'			0.3		5.0	Tan/Lt.brown, M-F sandy clay, drymoist
					6.0	
					7.0	
					8.0	
					9.0	Water Level at 8.22 feet on April 28, 2011
10'			0.0		10.0	Tan, silty clayey f/m sand, moist/wet
					11.0	
					12.0	
13'			0.1		13.0	Tan/brown, sandy clay, moist/wet - END OF BORING

DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

- * -Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, SC 29203

MONITORING WELL CONSTRUCTION LOG

PROJECT NAME:	Pantry #585	BORING I.D.:	MW-PL-2
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	3/7/2011
PROJECT LOCATION:	1502 East Greenville St. Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	HS Auger
		BORING DIAMETER:	6.5"
CLIENT:	The Pantry, Inc.	SAMPLING METHOD/INTERVAL:	5 Ft.
LOGGED BY:	Chad L. Wash	REMARKS:	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					1.0	
					2.0	
					3.0	
					4.0	
5'			0.0		5.0	Tan/Lt.brown, M-F sandy clay, drymoist
				V	6.0	Water Level at 5.94 feet on April 28, 2011
					7.0	
					8.0	
					9.0	
10'			0.2		10.0	Tan, silty clayey f/m sand, moist/wet
					11.0	
					12.0	
13'			0.0		13.0	Tan/brown, sandy clay, moist/wet - END OF BORING

DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

- * -Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, SC 29203

MONITORING WELL CONSTRUCTION LOG

PROJECT NAME:	Pantry #585	BORING I.D.:	MW-PL-3
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	3/7/2011
PROJECT LOCATION:	1502 East Greenville St. Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	HS Auger
		BORING DIAMETER:	6.5"
CLIENT:	The Pantry, Inc.	SAMPLING METHOD/INTERVAL:	5 Ft.
LOGGED BY:	Chad L. Wash	REMARKS:	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					1.0	
					2.0	
					3.0	
					4.0	
5'			0.0		5.0	Tan/Lt.brown, M-F sandy clay, drymoist
					6.0	Water Level at 5.46 feet on April 28, 2011
					7.0	
					8.0	
					9.0	
10'			0.0		10.0	Tan, silty clayey f/m sand, moist/wet
					11.0	
					12.0	
13'			0.1		13.0	Tan/brown, sandy clay, moist/wet - END OF BORING

DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

- * -Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, SC 29203

MONITORING WELL CONSTRUCTION LOG

PROJECT NAME:	Pantry #585	BORING I.D.:	IW-1
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	3/7/2011
PROJECT LOCATION:	1502 East Greenville St. Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	HS Auger
		BORING DIAMETER:	6.5"
CLIENT:	The Pantry, Inc.	SAMPLING METHOD/INTERVAL:	5 Ft.
LOGGED BY:	Chad L. Wash	REMARKS:	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					1.0	
					2.0	
					3.0	
					4.0	
5'			5.7		5.0	Tan/Lt.brown, M-F sandy clay, drymoist
					6.0	
				V	7.0	Water Level at 6.12 feet on April 28, 2011
					8.0	
					9.0	
10'			28		10.0	Tan, silty clayey f/m sand, moist/wet
					11.0	
					12.0	
					13.0	
					14.0	
15'			33		15.0	Tan/lt. brown, silty clayey f/m sand, moist/wet
					16.0	
					17.0	
					18.0	
					19.0	
20'			39		20.0	Tan/brown, sandy clay, wet/saturated - END OF BORING

DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

- * -Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, SC 29203

MONITORING WELL CONSTRUCTION LOG

PROJECT NAME:	Pantry #585	BORING I.D.:	DMW-3
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	3/7 - 3/8/2011
PROJECT LOCATION:	1502 East Greenville St. Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Air Rotary
		BORING DIAMETER:	6.5"
CLIENT:	The Pantry, Inc.	SAMPLING METHOD/INTERVAL:	5 Ft.
LOGGED BY:	Chad L. Wash	REMARKS:	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					1.0	
					2.0	
					3.0	
					4.0	
5'			44		5.0	Tan/Lt.brown, M-F sandy clay, drymoist
					6.0	
				V	7.0	Water Level at 6.97 feet on April 28, 2011
					8.0	
					9.0	
10'			20		10.0	Tan, silty clayey f/m sand, moist/wet
					11.0	
					12.0	
					13.0	
					14.0	
15'			39		15.0	Tan, silty clayey f/m sand, moist/wet
					16.0	
					17.0	
					18.0	
					19.0	
20'			18		20.0	Tan, silty clayey f/m sand, saturated
					21.0	
					22.0	
					23.0	
					24.0	
25'			18		25.0	Tan, f-m sandy clay, saturated
					26.0	
					27.0	
					28.0	
					29.0	
30'			23		30.0	Tan, f-m sandy clay, saturated

DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

- * -Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

VATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, SC 29203

MONITORING WELL CONSTRUCTION LOG

PROJECT NAME:	Pantry #585	BORING I.D.:	DMW-3 (continued)
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	3/7 - 3/8/2011
PROJECT LOCATION:	1502 East Greenville St. Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Air Rotary
		BORING DIAMETER:	6.5"
CLIENT:	The Pantry, Inc.	SAMPLING METHOD/INTERVAL:	5 Ft.
LOGGED BY:	Chad L. Wash	REMARKS:	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					31.0	
					32.0	
					33.0	
					34.0	
35'			0.5		35.0	Tan, f-m sandy clay, saturated
					36.0	
					37.0	
					38.0	
					39.0	
40'			7.7		40.0	Tan, f-m sandy clay, saturated
					41.0	
					42.0	
					43.0	
					44.0	
45'			0.0		45.0	Tan, f-m sandy clay, saturated
					46.0	
					47.0	
					48.0	
					49.0	
50'			0.0		50.0	Tan, f-m sandy clay, saturated, **6" casing set**
					51.0	
					52.0	
					53.0	
					54.0	
55'			0.0		55.0	Tan, f-m sandy clay, saturated, **END OF BORING**

DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

- * -Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, SC 29203

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: The Pantry, Inc (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:**
Name: Pantry #585
Street Address: 1502 East Greenville St
City: Anderson, SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from NA ft. to NA ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: MW-1PL

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

7. PERMIT NUMBER: #12458

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 3/7/11
13 ft. Date Completed: 3/7/11

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
3 in. to 0 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☑
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.01/Sch.40 Length: 10'
Set Between: 13 ft. and 3 ft. **NOTE: MULTIPLE SCREENS**
_____ ft. and _____ ft. **USE SECOND SHEET**
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 13 ft. to 2 ft.
Effective size #2.med Uniformity Coefficient Sand

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 2 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft.____ direction
Type _____
Well Disinfected ☐ Yes ☑ No Type: _____ Amount: _____

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

19. WELL DRILLER: Tommy Bolyard **CERT. NO.:** 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: Fax No.: 803.548.2233

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

Signed: _____ Date: 3/10/11
Well Driller

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

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: The Pantry, Inc
(last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:**
Name: Pantry #585
Street Address: 1502 East Greenville St
City: Anderson, SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from NA ft. to NA ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: MW-2PL

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

7. PERMIT NUMBER: #12458

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 3/7/11
13 ft. Date Completed: 3/7/11

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
3 in. to 0 ft. depth
in. to ft. depth
Height: Above ☐ Below ☑
Surface ft.
Weight lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.01/Sch.40 Length: 10'
Set Between: 13 ft. and 3 ft. **NOTE: MULTIPLE SCREENS**
ft. and ft. **USE SECOND SHEET**
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 13 ft. to 2 ft.
Effective size #2.med Uniformity Coefficient Sand

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 2 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes ☑ No Type: Amount:

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

19. WELL DRILLER: Tommy Bolyard **CERT. NO.:** 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: Fax No.: 803.548.2233

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

Signed: Date: 3/10/11
Well Driller

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

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: The Pantry, Inc
(last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:**
Name: Pantry #585
Street Address: 1502 East Greenville St
City: Anderson, SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from NA ft. to NA ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: MW-3PL

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

7. PERMIT NUMBER: # 12458

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 3/7/11
13 ft. Date Completed: 3/7/11

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
3 in. to 0 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☑
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.01/Sch.40 Length: 10'
Set Between: 13 ft. and 3 ft. **NOTE: MULTIPLE SCREENS**
_____ ft. and _____ ft. **USE SECOND SHEET**
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 13 ft. to 2 ft.
Effective size #2,med Uniformity Coefficient Sand

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 2 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☑ No Type: _____ Amount: _____

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

19. WELL DRILLER: Tommy Bolyard **CERT. NO.:** 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: Fax No.: 803.548.2233

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

Signed: _____ Date: 3/10/11
Well Driller
If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: The Pantry, Inc (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY:
Name: Pantry #585
Street Address: 1502 East Greenville St
City: Anderson, SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from NA ft. to NA ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: IW-1

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

7. PERMIT NUMBER: # 12458

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 3/8/11
20 ft. Date Completed: 3/8/11

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
15 in. to 0 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☑
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.01/Sch.40 Length: 5'
Set Between: 20 ft. and 15 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 20 ft. to 13 ft.
Effective size #2,med Uniformity Coefficient Sand

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 13 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☑ No Type: _____ Amount: _____

18. PUMP: Date installed: _____ Not installed ☑
Mfr. Name: _____ Model No.: _____
H.P._____ Volts_____ Length of drop pipe ___ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Tommy Bolyard **CERT. NO.:** 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: Fax No.: 803.548.2233

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

Signed: _____ Date: 3/10/11
Well Driller

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

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: The Pantry, Inc (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:**
Name: Pantry #585
Street Address: 1502 East Greenville St
City: Anderson, SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from NA ft. to NA ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: DMW-4

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

7. PERMIT NUMBER: #12458

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 3/7/11
55 ft. Date Completed: 3/8/11

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
50'(2") in. to 0 ft. depth
45'(6") in. to 0 ft. depth
Height: Above ☐ Below ☑
Surface ____ ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.01/Sch.40 Length: 5'
Set Between: 55 ft. and 50 ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 55 ft. to 48 ft.
Effective size #2,med Uniformity Coefficient Sand

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other ____
Depth: From 48 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type ____
Well Disinfected ☐ Yes ☑ No Type: ____ Amount: ____

18. PUMP: Date Installed: ____ Not Installed ☑
Mfr. Name: ____ Model No.: ____
H.P. ____ Volts ____ Length of drop pipe ____ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Tommy Bolyard **CERT. NO.:** 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: Fax No.: 803.548.2233

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

Signed: ____ Date: 3/10/11
Well Driller

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

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

APPENDIX D

Groundwater Sampling Field Measurements

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 12,458

Well # MW-PW-1

Method of Well Purging: Bailer X Pump type _____
Method of Sample Collection: Bailer X Pump type _____

Quality Assurance

pH Meter _____ Conductivity Meter _____
serial no. _____ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or Ø Feet
Conversion factor (C): 3.1423 * $(D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 13 ft. Below Ground Surface
Depth to Groundwater (DTG) _ft. Below Ground Surface
Screen interval 3 ft. to 13 ft.
Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) _____ X ___ = 2.66 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)							0800	
pH (s.u.)		7.5	7.3	7.5				
Specific Cond. (mS/cm)		114	122	119				
Water Temp (°C)		19.4	19.9	19.0				
Turbidity *		1	2	1				
OVA Reading		—	—	—				
Salinity		—	—	—				
Dissolved Oxygen		20.0	20.2	20.8				

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks _____

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 12458

Well # MW-PL-2

Method of Well Purging: Bailer Y Pump type _____
Method of Sample Collection: Bailer Y Pump type _____

Quality Assurance

pH Meter _____
serial no. _____
pH = 4.0 _____
pH = 7.0 _____
pH = 10.0 _____

Conductivity Meter _____
serial no. _____
Standard _____ Internal
Standard _____ Internal
Standard _____ Internal

Well Diameter (D) 2 Inches or Ø Feet
Conversion factor (C): 3.1423 * $(D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 13 ft. Below Ground Surface
Depth to Groundwater 5.94 (DTG) _ft. Below Ground Surface
Screen interval 3 ft. to 13 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) _____ X ___ = 7.60 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)							0830	
pH (s.u.)		8.4	8.4	8.4				
Specific Cond. (mS/cm)		82	87	80				
Water Temp (°C)		20.3	20.9	20.9				
Turbidity *		1	1	1				
OVA Reading		—	—	—				
Salinity		—	—	—				
Dissolved Oxygen		12.4	12.0	12.1				

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks _____

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 12458

Well # MW-PL-3

Method of Well Purging: Bailer Y Pump type _____
Method of Sample Collection: Bailer Y Pump type _____

Quality Assurance

pH Meter _____ Conductivity Meter _____
serial no. _____ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or Ø Feet
Conversion factor (C): 3.1423 * $(D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 13 ft. Below Ground Surface
Depth to Groundwater 5.46 (DTG) ft. Below Ground Surface
Screen interval 3 ft. to 13 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) _____ X ___ = 4.60 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)							0900	
pH (s.u.)		5.9	6.2	6.0				
Specific Cond. (mS/cm)		68	92	90				
Water Temp (°C)		20.4	19.9	20.0				
Turbidity *		1	1	1				
OVA Reading		—	—	—				
Salinity		—	—	—				
Dissolved Oxygen		13.0	13.3	12.7				

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks _____

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 12458 Well # IW-1

Method of Well Purging: Bailer X Pump type _____
Method of Sample Collection: Bailer X Pump type _____

Quality Assurance

pH Meter _____ Conductivity Meter _____
serial no. _____ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or Ø Feet
Conversion factor (C): 3.1423 * $(D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 20 ft. Below Ground Surface
Depth to Groundwater 5.12 (DTG) _ft. Below Ground Surface
Screen interval 15 ft. to 20 ft.
Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) _____ X ___ = 8.0 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)							1000	
pH (s.u.)		8.4	8.0	8.1				
Specific Cond. (mS/cm)		111	103	110				
Water Temp (°C)		20.0	19.7	19.7				
Turbidity *		2		2				
OVA Reading		—	—	—				
Salinity		—	—	—				
Dissolved Oxygen		22.0	22.0	21.0				

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks _____

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 12452

Well # DMW-4

Method of Well Purging: Bailer Y Pump type _____
Method of Sample Collection: Bailer Y Pump type _____

Quality Assurance

pH Meter _____
serial no. _____
pH = 4.0 _____
pH = 7.0 _____
pH = 10.0 _____

Conductivity Meter _____
serial no. _____
Standard _____ Internal
Standard _____ Internal
Standard _____ Internal

Well Diameter (D) 2 Inches or Ø Feet
Conversion factor (C): 3.1423 * $(D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 55 ft. Below Ground Surface
Depth to Groundwater (DTG) 5.97 ft. Below Ground Surface
Screen interval 50 ft. to 55 ft.
Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) _____ X ___ = 12.0 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)							1030	
pH (s.u.)		5.5	5.2	5.0				
Specific Cond. (mS/cm)		90	73	50				
Water Temp (°C)		18.8	19.1	19.0				
Turbidity *		1	2	1				
OVA Reading		—	—	—				
Salinity		—	—	—				
Dissolved Oxygen		37	33	33				

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks _____

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 12458

Well # KMO-3

Method of Well Purging: Bailer ~~AM~~ Pump type _____
Method of Sample Collection: Bailer 4 Pump type _____

Quality Assurance

pH Meter _____ Conductivity Meter _____
serial no. _____ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or Ø Feet
Conversion factor (C): 3.1423 * $(D/2)^2$
for a 2 inch well C = 0.163, for a 4 inch well C =0.652
Total Well Depth (TWD) 14 ft. Below Ground Surface
Depth to Groundwater 7.24 (DTG) ft. Below Ground Surface
Screen interval 4 ft. to 14 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) _____ X ___ = 6.0 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)							1100	
pH (s.u.)		8.2	8.0	8.0				
Specific Cond. (mS/cm)		188	180	182				
Water Temp (°C)		21.0	21.1	21.0				
Turbidity *		1	1	1				
OVA Reading		—	—	—				
Salinity		—	—	—				
Dissolved Oxygen		10.0	10.4	10.8				

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks SLIGHT PET. ODORS —

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 12458 Well # KMO-5

Method of Well Purging: Bailer_____ Pump type _____
Method of Sample Collection: Bailer X Pump type _____

Quality Assurance

pH Meter _____ Conductivity Meter_____
serial no. _____ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or 0 Feet
Conversion factor (C): 3.1423 * $(D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 14 ft. Below Ground Surface
Depth to Groundwater 7.52 (DTG) _ft. Below Ground Surface
Screen interval 4 ft. to 14 ft.
Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) _____ X ___ = 6.00 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)							1200	
pH (s.u.)		10.9						
Specific Cond. (mS/cm)		77						
Water Temp (°C)		22.8						
Turbidity *		1						
OVA Reading		—						
Salinity		—						
Dissolved Oxygen		18.3						

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks _____

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 17458

Well # KMO-6

Method of Well Purging: Bailer_____ Pump type _____
Method of Sample Collection: Bailer X Pump type _____

Quality Assurance

pH Meter _____ Conductivity Meter_____
serial no. _____ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or Ø Feet
Conversion factor (C): 3.1423 * $(D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 15 ft. Below Ground Surface
Depth to Groundwater 7.15 (DTG) ft. Below Ground Surface
Screen interval 5 ft. to 15 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) _____ X ___ = 6.52 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)							1410	
pH (s.u.)		6.6						
Specific Cond. (mS/cm)		319						
Water Temp (°C)		20.5						
Turbidity *		1						
OVA Reading		—						
Salinity		—						
Dissolved Oxygen		22.0						

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks _____

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 12458

Well # Kuno-10

Method of Well Purging: Bailer _____ Pump type _____
Method of Sample Collection: Bailer X Pump type _____

Quality Assurance

pH Meter _____ serial no. _____
pH = 4.0 _____
pH = 7.0 _____
pH = 10.0 _____

Conductivity Meter _____ serial no. _____
Standard _____ Internal
Standard _____ Internal
Standard _____ Internal

Well Diameter (D) 2 Inches or Ø Feet
Conversion factor (C): 3.1423 * $(D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 15 ft. Below Ground Surface
Depth to Groundwater 5.85 (DTG) ft. Below Ground Surface
Screen interval 5 ft. to 15 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) _____ X ___ = 6.50 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)							1430	
pH (s.u.)		6.8						
Specific Cond. (mS/cm)		199						
Water Temp (°C)		20.9						
Turbidity *		1						
OVA Reading		—						
Salinity		—						
Dissolved Oxygen		13.3						

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks _____

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 12456

Well # KMO-11

Method of Well Purging: Bailer _____ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter _____ Conductivity Meter _____
serial no. _____ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or Ø Feet
Conversion factor (C): 3.1423 * $(D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 12 ft. Below Ground Surface
Depth to Groundwater 6.02 (DTG) _ft. Below Ground Surface
Screen interval 2 ft. to 12 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) _____ X ___ = 6.00 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)							1500	
pH (s.u.)		8.1						
Specific Cond. (mS/cm)		225						
Water Temp (°C)		21.2						
Turbidity *		1						
OVA Reading		—						
Salinity		—						
Dissolved Oxygen		18.7						

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks _____

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 12458

Well # KMO-12

Method of Well Purging: Bailer _____ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter _____
serial no. _____
pH = 4.0 _____
pH = 7.0 _____
pH = 10.0 _____

Conductivity Meter _____
serial no. _____
Standard _____ Internal
Standard _____ Internal
Standard _____ Internal

Well Diameter (D) 2 Inches or Ø Feet
Conversion factor (C): 3.1423 * $(D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 15 ft. Below Ground Surface
Depth to Groundwater 5.93 (DTG) ft. Below Ground Surface
Screen interval 5 ft. to 15 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) _____ X ___ = 9.60 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)							1230	
pH (s.u.)		5.4						
Specific Cond. (mS/cm)		240						
Water Temp (°C)		23.3						
Turbidity*		1						
OVA Reading		—						
Salinity		—						
Dissolved Oxygen		33.0						

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks _____

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 12458

Well # KMO-17

Method of Well Purging: Bailer _____ Pump type _____
Method of Sample Collection: Bailer Y Pump type _____

Quality Assurance

pH Meter _____ Conductivity Meter _____
serial no. _____ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or Ø Feet
Conversion factor (C): 3.1423 * $(D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 15 ft. Below Ground Surface
Depth to Groundwater 8.8 (DTG) ft. Below Ground Surface
Screen interval 5 ft. to 15 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) _____ X ___ = 6.50 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)							1245	
pH (s.u.)		7.4						
Specific Cond. (mS/cm)		10.0						
Water Temp (°C)		22.6						
Turbidity*		1						
OVA Reading		—						
Salinity		—						
Dissolved Oxygen		12.2						

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks SLIGHT PET. ODOR —

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 12458

Well # KMO-18

Method of Well Purging: Bailer_____ Pump type _____
Method of Sample Collection: Bailer X Pump type _____

Quality Assurance

pH Meter _____ Conductivity Meter _____
serial no. _____ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or Ø Feet
Conversion factor (C): 3.1423 * $(D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 15 ft. Below Ground Surface
Depth to Groundwater 5.71 (DTG) ft. Below Ground Surface
Screen interval 5 ft. to 15 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) _____ X ___ = 8.50 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)							1330	
pH (s.u.)		9.6						
Specific Cond. (mS/cm)		144						
Water Temp (°C)		23.0						
Turbidity		1						
OVA Reading		—						
Salinity		—						
Dissolved Oxygen		7.7						

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks _____

APPENDIX E

Groundwater Analytical Results

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Case Narrative for:

ATC ASSOCIATES, INC.

Certificate of Analysis Number:

10120821

Report To:		Project Name:	014.25384.0585
ATC ASSOCIATES, INC.		Site:	PANTRY #585
CHAD WASH		Site Address:	
400 NORTHEAST DRIVE			
UNIT Q		PO Number:	
COLUMBIA		State:	South Carolina
SC		State Cert. No.:	73004001
29203-		Date Reported:	
ph: (803) 735-0003	fax:		

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data for those samples spiked by the laboratory and may be applicable to other samples of similar matrix from the site. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process. If insufficient sample is supplied for MS/MSD, a Laboratory Control Sample (LCS) and a Laboratory Control Sample Duplicate (LCSD) are reported with the analytical batch and serve as the batch quality control (QC).

Results are reported on a Wet Weight Basis unless otherwise noted in the sample unit field as -dry.

The collection of samples using encores, terracores or other field collection devices may result in inconsistent initial sample weights for the parent sample and MS/MSD samples.

The MS/MSD recovery and precision data are calculated based on detected spike concentrations that are adjusted for initial sample weights. As a result of the variability between initial sample weights, the calculated RPD may have increased bias.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

12/22/2010

Alberto E. Granados
Project Manager

Date

Test results meet all requirements of NELAC, unless specified in the narrative.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

ATC ASSOCIATES, INC.

Certificate of Analysis Number:

10120821

Report To: ATC ASSOCIATES, INC.
CHAD WASH
400 NORTHEAST DRIVE
UNIT Q
COLUMBIA
SC
29203-
ph: (803) 735-0003 fax: (803) 735-0443

Fax To:

Project Name: 014.25384.0585
Site: PANTRY #585
Site Address:

PO Number:
State: South Carolina
State Cert. No.: 73004001
Date Reported:

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
FS-1	10120821-01	Water	12/15/2010 10:20	12/18/2010 10:40:00 AM	307963	☐
FS-2	10120821-02	Water	12/15/2010 11:00	12/18/2010 10:40:00 AM	307963	☐
FS-3	10120821-03	Water	12/15/2010 11:30	12/18/2010 10:40:00 AM	307963	☐
FS-4	10120821-04	Water	12/15/2010 12:05	12/18/2010 10:40:00 AM	307963	☐
FS-5	10120821-05	Water	12/15/2010 12:30	12/18/2010 10:40:00 AM	307963	☐
FS-6	10120821-06	Water	12/15/2010 13:00	12/18/2010 10:40:00 AM	307963	☐
FS-7	10120821-07	Water	12/15/2010 13:06	12/18/2010 10:40:00 AM	307963	☐
FS-8	10120821-08	Water	12/15/2010 13:30	12/18/2010 10:40:00 AM	307963	☐
FS-9	10120821-09	Water	12/15/2010 14:00	12/18/2010 10:40:00 AM	307963	☐
FS-10	10120821-10	Water	12/15/2010 14:15	12/18/2010 10:40:00 AM	307963	☐
FS-11	10120821-11	Water	12/15/2010 14:35	12/18/2010 10:40:00 AM	307963	☐

12/22/2010

Alberto E. Granados
Project Manager

Date

Ron Benjamin
Laboratory Director

Tristan Davis
Quality Assurance Officer

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: FS-1 **Collected:** 12/15/2010 10:20 **SPL Sample ID:** 10120821-01

Site: **PANTRY #585**

Analyses/Method	Result	QUAL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN				**MCL**		**SW8260B**	**Units: ug/L**	
Benzene	ND			1	1	12/21/10 7:10	DN	3869624
Ethylbenzene	ND			1	1	12/21/10 7:10	DN	3869624
Methyl tert-butyl ether	ND			1	1	12/21/10 7:10	DN	3869624
Naphthalene	ND			5	1	12/21/10 7:10	DN	3869624
Toluene	ND			1	1	12/21/10 7:10	DN	3869624
m,p-Xylene	ND			2	1	12/21/10 7:10	DN	3869624
o-Xylene	ND			2	1	12/21/10 7:10	DN	3869624
Xylenes,Total	ND			2	1	12/21/10 7:10	DN	3869624
Surr: 1,2-Dichloroethane-d4	100		%	79-121	1	12/21/10 7:10	DN	3869624
Surr: 4-Bromofluorobenzene	104		%	88-108	1	12/21/10 7:10	DN	3869624
Surr: Toluene-d8	99.9		%	89-108	1	12/21/10 7:10	DN	3869624

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: FS-2 **Collected:** 12/15/2010 11:00 **SPL Sample ID:** 10120821-02

Site: **PANTRY #585**

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN			**MCL**		**SW8260B**	**Units: ug/L**	
Benzene	ND		1	1	12/21/10 7:40	DN	3869625
Ethylbenzene	ND		1	1	12/21/10 7:40	DN	3869625
Methyl tert-butyl ether	ND		1	1	12/21/10 7:40	DN	3869625
Naphthalene	ND		5	1	12/21/10 7:40	DN	3869625
Toluene	ND		1	1	12/21/10 7:40	DN	3869625
m,p-Xylene	ND		2	1	12/21/10 7:40	DN	3869625
o-Xylene	ND		2	1	12/21/10 7:40	DN	3869625
Xylenes,Total	ND		2	1	12/21/10 7:40	DN	3869625
Surr: 1,2-Dichloroethane-d4	101		% 79-121	1	12/21/10 7:40	DN	3869625
Surr: 4-Bromofluorobenzene	102		% 88-108	1	12/21/10 7:40	DN	3869625
Surr: Toluene-d8	99.6		% 89-108	1	12/21/10 7:40	DN	3869625

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: FS-3 **Collected:** 12/15/2010 11:30 **SPL Sample ID:** 10120821-03

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN			**MCL**		**SW8260B**	**Units: ug/L**	
Benzene	ND		1	1	12/21/10 8:10	DN	3869626
Ethylbenzene	ND		1	1	12/21/10 8:10	DN	3869626
Methyl tert-butyl ether	ND		1	1	12/21/10 8:10	DN	3869626
Naphthalene	ND		5	1	12/21/10 8:10	DN	3869626
Toluene	ND		1	1	12/21/10 8:10	DN	3869626
m,p-Xylene	ND		2	1	12/21/10 8:10	DN	3869626
o-Xylene	ND		2	1	12/21/10 8:10	DN	3869626
Xylenes,Total	ND		2	1	12/21/10 8:10	DN	3869626
Surr: 1,2-Dichloroethane-d4	103	%	79-121	1	12/21/10 8:10	DN	3869626
Surr: 4-Bromofluorobenzene	102	%	88-108	1	12/21/10 8:10	DN	3869626
Surr: Toluene-d8	98.4	%	89-108	1	12/21/10 8:10	DN	3869626

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: FS-4 **Collected:** 12/15/2010 12:05 **SPL Sample ID:** 10120821-04

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN			**MCL**		**SW8260B**	**Units: ug/L**	
Benzene	ND		1	1	12/21/10 8:40	DN	3869627
Ethylbenzene	ND		1	1	12/21/10 8:40	DN	3869627
Methyl tert-butyl ether	ND		1	1	12/21/10 8:40	DN	3869627
Naphthalene	ND		5	1	12/21/10 8:40	DN	3869627
Toluene	ND		1	1	12/21/10 8:40	DN	3869627
m,p-Xylene	ND		2	1	12/21/10 8:40	DN	3869627
o-Xylene	ND		2	1	12/21/10 8:40	DN	3869627
Xylenes,Total	ND		2	1	12/21/10 8:40	DN	3869627
Surr: 1,2-Dichloroethane-d4	103		% 79-121	1	12/21/10 8:40	DN	3869627
Surr: 4-Bromofluorobenzene	106		% 88-108	1	12/21/10 8:40	DN	3869627
Surr: Toluene-d8	97.3		% 89-108	1	12/21/10 8:40	DN	3869627

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: FS-5 **Collected:** 12/15/2010 12:30 **SPL Sample ID:** 10120821-05

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND		1	1	12/21/10 5:22	DN	3869526
Ethylbenzene	ND		1	1	12/21/10 5:22	DN	3869526
Methyl tert-butyl ether	ND		1	1	12/21/10 5:22	DN	3869526
Naphthalene	ND		5	1	12/21/10 5:22	DN	3869526
Toluene	ND		1	1	12/21/10 5:22	DN	3869526
m,p-Xylene	ND		2	1	12/21/10 5:22	DN	3869526
o-Xylene	ND		2	1	12/21/10 5:22	DN	3869526
Xylenes,Total	ND		2	1	12/21/10 5:22	DN	3869526
Surr: 1,2-Dichloroethane-d4	94.6	%	79-121	1	12/21/10 5:22	DN	3869526
Surr: 4-Bromofluorobenzene	99.1	%	88-108	1	12/21/10 5:22	DN	3869526
Surr: Toluene-d8	104	%	89-108	1	12/21/10 5:22	DN	3869526

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: FS-6 **Collected:** 12/15/2010 13:00 **SPL Sample ID:** 10120821-06

Site: **PANTRY #585**

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND		1	1	12/21/10 5:53	DN	3869527
Ethylbenzene	ND		1	1	12/21/10 5:53	DN	3869527
Methyl tert-butyl ether	ND		1	1	12/21/10 5:53	DN	3869527
Naphthalene	ND		5	1	12/21/10 5:53	DN	3869527
Toluene	ND		1	1	12/21/10 5:53	DN	3869527
m,p-Xylene	ND		2	1	12/21/10 5:53	DN	3869527
o-Xylene	ND		2	1	12/21/10 5:53	DN	3869527
Xylenes,Total	ND		2	1	12/21/10 5:53	DN	3869527
Surr: 1,2-Dichloroethane-d4	93.7	%	79-121	1	12/21/10 5:53	DN	3869527
Surr: 4-Bromofluorobenzene	97.5	%	88-108	1	12/21/10 5:53	DN	3869527
Surr: Toluene-d8	103	%	89-108	1	12/21/10 5:53	DN	3869527

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: FS-7 **Collected:** 12/15/2010 13:06 **SPL Sample ID:** 10120821-07

Site: **PANTRY #585**

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND		1	1	12/21/10 6:23	DN	3869528
Ethylbenzene	ND		1	1	12/21/10 6:23	DN	3869528
Methyl tert-butyl ether	110		1	1	12/21/10 6:23	DN	3869528
Naphthalene	ND		5	1	12/21/10 6:23	DN	3869528
Toluene	ND		1	1	12/21/10 6:23	DN	3869528
m,p-Xylene	ND		2	1	12/21/10 6:23	DN	3869528
o-Xylene	ND		2	1	12/21/10 6:23	DN	3869528
Xylenes,Total	ND		2	1	12/21/10 6:23	DN	3869528
Surr: 1,2-Dichloroethane-d4	94.6	%	79-121	1	12/21/10 6:23	DN	3869528
Surr: 4-Bromofluorobenzene	100	%	88-108	1	12/21/10 6:23	DN	3869528
Surr: Toluene-d8	101	%	89-108	1	12/21/10 6:23	DN	3869528

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: FS-8 **Collected:** 12/15/2010 13:30 **SPL Sample ID:** 10120821-08

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN			**MCL**		**SW8260B**	**Units: ug/L**	
Benzene	ND		1	1	12/21/10 6:53	DN	3869529
Ethylbenzene	ND		1	1	12/21/10 6:53	DN	3869529
Methyl tert-butyl ether	49		1	1	12/21/10 6:53	DN	3869529
Naphthalene	ND		5	1	12/21/10 6:53	DN	3869529
Toluene	ND		1	1	12/21/10 6:53	DN	3869529
m,p-Xylene	ND		2	1	12/21/10 6:53	DN	3869529
o-Xylene	ND		2	1	12/21/10 6:53	DN	3869529
Xylenes,Total	ND		2	1	12/21/10 6:53	DN	3869529
Surr: 1,2-Dichloroethane-d4	93.2	%	79-121	1	12/21/10 6:53	DN	3869529
Surr: 4-Bromofluorobenzene	97.5	%	88-108	1	12/21/10 6:53	DN	3869529
Surr: Toluene-d8	102	%	89-108	1	12/21/10 6:53	DN	3869529

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: FS-9 **Collected:** 12/15/2010 14:00 **SPL Sample ID:** 10120821-09

Site: **PANTRY #585**

Analyses/Method	Result	QUAL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN				**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	2.8			1	1	12/21/10 7:22	DN	3869530
Ethylbenzene	ND			1	1	12/21/10 7:22	DN	3869530
Methyl tert-butyl ether	270			5	5	12/22/10 8:02	CDP	3871657
Naphthalene	ND			5	1	12/21/10 7:22	DN	3869530
Toluene	ND			1	1	12/21/10 7:22	DN	3869530
m,p-Xylene	ND			2	1	12/21/10 7:22	DN	3869530
o-Xylene	ND			2	1	12/21/10 7:22	DN	3869530
Xylenes,Total	ND			2	1	12/21/10 7:22	DN	3869530
Surr: 1,2-Dichloroethane-d4	111		%	79-121	5	12/22/10 8:02	CDP	3871657
Surr: 1,2-Dichloroethane-d4	93.7		%	79-121	1	12/21/10 7:22	DN	3869530
Surr: 4-Bromofluorobenzene	98.2		%	88-108	5	12/22/10 8:02	CDP	3871657
Surr: 4-Bromofluorobenzene	100		%	88-108	1	12/21/10 7:22	DN	3869530
Surr: Toluene-d8	97.4		%	89-108	5	12/22/10 8:02	CDP	3871657
Surr: Toluene-d8	103		%	89-108	1	12/21/10 7:22	DN	3869530

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: FS-10 **Collected:** 12/15/2010 14:15 **SPL Sample ID:** 10120821-10

Site: **PANTRY #585**

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	1800		10	10	12/22/10 8:30	CDP	3871658
Ethylbenzene	300		10	10	12/22/10 8:30	CDP	3871658
Methyl tert-butyl ether	ND		10	10	12/22/10 8:30	CDP	3871658
Naphthalene	250		50	10	12/22/10 8:30	CDP	3871658
Toluene	130		10	10	12/22/10 8:30	CDP	3871658
m,p-Xylene	88		20	10	12/22/10 8:30	CDP	3871658
o-Xylene	85		20	10	12/22/10 8:30	CDP	3871658
Xylenes,Total	173		20	10	12/22/10 8:30	CDP	3871658
Surr: 1,2-Dichloroethane-d4	109		% 79-121	10	12/22/10 8:30	CDP	3871658
Surr: 4-Bromofluorobenzene	99.1		% 88-108	10	12/22/10 8:30	CDP	3871658
Surr: Toluene-d8	96.8		% 89-108	10	12/22/10 8:30	CDP	3871658

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: FS-11 **Collected:** 12/15/2010 14:35 **SPL Sample ID:** 10120821-11

Site: PANTRY #585

Analyses/Method	Result	QUAL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN				**MCL**		**SW8260B**	**Units: ug/L**	
Benzene	ND			1	1	12/21/10 8:23	DN	3869532
Ethylbenzene	ND			1	1	12/21/10 8:23	DN	3869532
Methyl tert-butyl ether	ND			1	1	12/21/10 8:23	DN	3869532
Naphthalene	ND			5	1	12/21/10 8:23	DN	3869532
Toluene	ND			1	1	12/21/10 8:23	DN	3869532
m,p-Xylene	ND			2	1	12/21/10 8:23	DN	3869532
o-Xylene	ND			2	1	12/21/10 8:23	DN	3869532
Xylenes,Total	ND			2	1	12/21/10 8:23	DN	3869532
Surr: 1,2-Dichloroethane-d4	96.1		%	79-121	1	12/21/10 8:23	DN	3869532
Surr: 4-Bromofluorobenzene	98.7		%	88-108	1	12/21/10 8:23	DN	3869532
Surr: Toluene-d8	102		%	89-108	1	12/21/10 8:23	DN	3869532

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

Quality Control Documentation

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

014.25384.0585

Analysis: Volatile Organics:Method 8260B+MTBE+Naphthalene **WorkOrder:** 10120821
Method: SW8260B **Lab Batch ID:** R251564

Method Blank

RunID: QA_101220B-3869515 Units: ug/L
Analysis Date: 12/20/2010 23:53 Analyst: DN

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	1.0
Naphthalene	ND	5.0
Toluene	ND	1.0
m,p-Xylene	ND	2.0
o-Xylene	ND	2.0
Xylenes,Total	ND	2.0
Surr: 1,2-Dichloroethane-d4	94.6	75-120
Surr: 4-Bromofluorobenzene	101.7	89-109
Surr: Toluene-d8	103.3	89-110

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
10120821-05A	FS-5
10120821-06A	FS-6
10120821-07A	FS-7
10120821-08A	FS-8
10120821-09A	FS-9
10120821-11A	FS-11

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: QA_101220B-3869512 Units: ug/L
Analysis Date: 12/20/2010 22:23 Analyst: DN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	50.0	48.4	96.8	50.0	47.1	94.3	2.6	23	88	117
Ethylbenzene	50.0	51.8	104	50.0	50.8	102	2.1	16	90	114
Methyl tert-butyl ether	50.0	49.7	99.5	50.0	49.2	98.4	1.1	23	80	124
Naphthalene	50.0	48.1	96.1	50.0	47.6	95.3	0.9	27	68	131
Toluene	50.0	49.9	99.8	50.0	50.2	100	0.5	21	84	118
m,p-Xylene	100	100	100	100	98.8	98.8	1.4	20	86	114
o-Xylene	50.0	51.8	104	50.0	52.3	105	0.9	17	87	117
Xylenes,Total	150.0	151.8	101.4	150.0	151.1	100.7	0.6	20	86	117
Surr: 1,2-Dichloroethane-d4	50.0	46.6	93.1	50.0	50.0	100	7.2	30	75	120
Surr: 4-Bromofluorobenzene	50.0	50.4	101	50.0	50.9	102	1.0	30	89	109
Surr: Toluene-d8	50.0	52.6	105	50.0	51.5	103	2.1	30	89	110

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

Quality Control Report

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

ATC ASSOCIATES, INC.

014.25384.0585

Analysis: Volatile Organics:Method 8260B+MTBE+Naphthalene **WorkOrder:** 10120821
Method: SW8260B **Lab Batch ID:** R251568

Method Blank

RunID: QB_101220B-3869610 Units: ug/L
Analysis Date: 12/21/2010 0:10 Analyst: DN

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	1.0
Naphthalene	ND	5.0
Toluene	ND	1.0
m,p-Xylene	ND	2.0
o-Xylene	ND	2.0
Xylenes,Total	ND	2.0
Surr: 1,2-Dichloroethane-d4	100.4	75-120
Surr: 4-Bromofluorobenzene	103.6	89-109
Surr: Toluene-d8	99.9	89-110

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
10120821-01A	FS-1
10120821-02A	FS-2
10120821-03A	FS-3
10120821-04A	FS-4

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: QB_101220B-3869607 Units: ug/L
Analysis Date: 12/20/2010 22:41 Analyst: DN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	50.0	45.5	91.1	50.0	48.6	97.1	6.4	23	88	117
Ethylbenzene	50.0	47.9	95.9	50.0	52.2	104	8.5	16	90	114
Methyl tert-butyl ether	50.0	50.1	100	50.0	55.0	110	9.2	23	80	124
Naphthalene	50.0	48.5	97.0	50.0	52.1	104	7.1	27	68	131
Toluene	50.0	48.5	97.0	50.0	52.2	104	7.4	21	84	118
m,p-Xylene	100	94.7	94.7	100	103	103	8.3	20	86	114
o-Xylene	50.0	48.3	96.6	50.0	52.3	105	8.0	17	87	117
Xylenes,Total	150	143	95.3	150	155	104	8.2	20	86	117
Surr: 1,2-Dichloroethane-d4	50.0	53.5	107	50.0	53.8	108	0.6	30	75	120
Surr: 4-Bromofluorobenzene	50.0	50.7	101	50.0	51.0	102	0.7	30	89	109
Surr: Toluene-d8	50.0	50.4	101	50.0	50.5	101	0.1	30	89	110

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

014.25384.0585

Analysis: Volatile Organics:Method 8260B+MTBE+Naphthalene **WorkOrder:** 10120821
Method: SW8260B **Lab Batch ID:** R251662

Method Blank

RunID: HA_101221B-3871440 Units: ug/L
Analysis Date: 12/22/2010 0:54 Analyst: CDP

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
10120821-09A	FS-9
10120821-10A	FS-10

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	1.0
Naphthalene	ND	5.0
Toluene	ND	1.0
m,p-Xylene	ND	2.0
o-Xylene	ND	2.0
Xylenes,Total	ND	2.0
Surr: 1,2-Dichloroethane-d4	105.7	75-120
Surr: 4-Bromofluorobenzene	100.0	89-109
Surr: Toluene-d8	97.0	89-110

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: HA_101221B-3871437 Units: ug/L
Analysis Date: 12/21/2010 23:29 Analyst: CDP

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	50.0	52.3	105	50.0	54.1	108	3.5	23	88	117
Ethylbenzene	50.0	51.1	102	50.0	53.6	107	4.8	16	90	114
Methyl tert-butyl ether	50.0	52.6	105	50.0	54.3	109	3.2	23	80	124
Naphthalene	50.0	53.1	106	50.0	53.7	107	1.2	27	68	131
Toluene	50.0	50.3	101	50.0	52.6	105	4.4	21	84	118
m,p-Xylene	100	103	103	100	106	106	3.1	20	86	114
o-Xylene	50.0	51.5	103	50.0	53.9	108	4.4	17	87	117
Xylenes,Total	150.0	154.5	103.2	150.0	159.9	106.9	3.5	20	86	117
Surr: 1,2-Dichloroethane-d4	50.0	51.2	102	50.0	51.0	102	0.3	30	75	120
Surr: 4-Bromofluorobenzene	50.0	49.9	99.7	50.0	51.2	102	2.7	30	89	109
Surr: Toluene-d8	50.0	49.5	99.1	50.0	49.3	98.6	0.5	30	89	110

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

Sample Receipt Checklist

And

Chain of Custody

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Sample Receipt Checklist

Workorder:	**10120821**	Received By:	**SAB**
Date and Time Received:	**12/18/2010 10:40:00 AM**	Carrier name:	**FedEx-Pri Saturday Del**
Temperature:	**4°C**	Chilled by:	**Water Ice**

1.	**Shipping container/cooler in good condition?**	Yes ☑	No ☐	Not Present ☐
2.	**Custody seals intact on shippping container/cooler?**	Yes ☑	No ☐	Not Present ☐
3.	**Custody seals intact on sample bottles?**	Yes ☐	No ☐	Not Present ☑
4.	**Chain of custody present?**	Yes ☑	No ☐	
5.	**Chain of custody signed when relinquished and received?**	Yes ☑	No ☐	
6.	**Chain of custody agrees with sample labels?**	Yes ☑	No ☐	
7.	**Samples in proper container/bottle?**	Yes ☑	No ☐	
8.	**Sample containers intact?**	Yes ☑	No ☐	
9.	**Sufficient sample volume for indicated test?**	Yes ☑	No ☐	
10.	**All samples received within holding time?**	Yes ☑	No ☐	
11.	**Container/Temp Blank temperature in compliance?**	Yes ☑	No ☐	
12.	**Water - VOA vials have zero headspace?**	Yes ☑	No ☐	VOA Vials Not Present ☐
13.	**Water - Preservation checked upon receipt (except VOA*)?**	Yes ☐	No ☐	Not Applicable ☑

***VOA Preservation Checked After Sample Analysis**

SPL Representative: _____ **Contact Date & Time:** _____

Client Name Contacted: _____

Non Conformance Issues: _____

Client Instructions: _____

SPL, Inc.
Analysis Request & Chain of Custody Record

SPL Workorder No.: 1012 0821 | page 1 of 1

Client Name: ATC
Address: 400 NORTHWEST DR, SUITE Q
City: COLUMBIA State: SC Zip: [redacted]
Phone/Fax: (803) 735-0003
Client Contact: [illegible] Email:
Project Name/No.: 014.15344.085
Site Name: PANTRY #585
Site Location: ANDERSON, SC
Invoice To: Ph:

matrix: W=water S=soil O=oil A=air SL=sludge P=encore X=other
bottle: P=plastic G=glass A=amber glass V=vial X=other
size: V=vial 4=4oz. 1=1 liter 8=8oz. 16=16oz. X=other
pres.: 0=HCl 2=HNO3 S=H2SO4 X=other

Requested Analysis: BTEX / MTBE/DIPE

SAMPLE ID	DATE	TIME	comp	grab	matrix	bottle	size	pres.	Number of Containers	BTEX / MTBE/DIPE
FS-1	12/15/10	1020		X	X	X	X	X	3	X
FS-2		1100							3	
FS-3		1130							3	
FS-4		1205							3	
FS-5		1230							3	
FS-6		1300							3	
FS-7		1306							3	
FS-8		1330							3	
FS-9		1400							3	
FS-10		1415							3	
FS-11		1435							3	

Client/Compliant Remarks:
Laboratory remarks: 5% on ice
Intact? Y N
Ice? Y N
Temp: 4.0 / 4.1

Requested TAT
☐ 1 Business Day ☐ Contract
☐ 2 Business Days ☒ Standard
☒ 3 Business Days
☐ Other
Rush TAT requires prior notice

Special Reporting Requirements: Results: Fax ☐ Email ☒ PDF ☐
Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☐
Special Detection Limits (specify): 13
PM review (initial):

1. Relinquished by Sampler: [illegible] / ATC	date 12/16/10	time 1310	2. Received by: Fed Ex
3. Relinquished by: Fed Ex	date 12-16-10	time 10:00	4. Received by: [illegible]
5. Relinquished by: [illegible]	date 12-16-10	time 10:40	6. Received by Laboratory: [illegible]

☐ 8830 Interchange Drive
Houston, TX 77054 (713) 660-0901

☐ 509 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

☐ 459 Hughes Drive
Traverse City, MI 49686 (231) 917-5777

FedEx US Airbill

FedEx Tracking Number 8724 2741 1706

Information can be removed for Recipient's records.

FedEx Tracking Number 8724274117 06

Phone 803 735-0003

ATC

400 NORTHEAST DR, SUITE Q

COLUMBIA State SC ZIP 29203

Dept./Floor/Suite/Room

Optional Billing Reference

SHIPPING AND RECEIVING Phone 337 237-4773

SOUTHERN PETROLEUM LABS

9 AMBASSADOR CAFFERY PKWY

HOLD Weekday

HOLD Saturday

LAFAYETTE State LA ZIP 70503-5300

0421411280

Recipient's Copy

9a Express Package Service

Packages up to 150 lbs.

FedEx First Overnight

FedEx 2Day

FedEx Express Saver

4b Express Freight Service

Packages over 150 lbs.

FedEx 1Day Freight

FedEx 2Day Freight

FedEx 3Day Freight

5 Packaging

FedEx Envelope*

FedEx Pak*

FedEx Box

FedEx Tube

Other

6 Special Handling and Delivery Signature Options

No Signature Required

Direct Signature

Indirect Signature

Does this shipment contain dangerous goods?

One item must be checked.

No

Yes

Yes

Dry Ice

Cargo Aircraft Only

7 Payment

Sender

Recipient

Third Party

Credit Card

Cash/Check

Total Packages

Total Weight

TOTAL

1001654424 1893-4573336

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775 -

Case Narrative for:
ATC ASSOCIATES, INC.

Certificate of Analysis Number:
11041256

Report To:		Project Name:	014.25384.0585
ATC ASSOCIATES, INC.		Site:	PANTRY #585
CHAD WASH		Site Address:	
400 NORTHEAST DRIVE			
UNIT Q		PO Number:	
COLUMBIA		State:	South Carolina
SC		State Cert. No.:	73004001
29203-		Date Reported:	5/10/2011
ph: (803) 735-0003	fax: (803) 735-0443		

NOTE: THIS REPORT HAS BEEN AMENDED FROM THE ORIGINAL. THIS REPORT REPLACES IN ITS ENTIRETY ANY PREVIOUSLY SUBMITTED COPY. The sample originally identified as DMW-4 on the chain of custody has been changed to DMW-3 as per Chad Wash's email request.

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data for those samples spiked by the laboratory and may be applicable to other samples of similar matrix from the site. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process. If insufficient sample is supplied for MS/MSD, a Laboratory Control Sample (LCS) and a Laboratory Control Sample Duplicate (LCSD) are reported with the analytical batch and serve as the batch quality control (QC).

Results are reported on a Wet Weight Basis unless otherwise noted in the sample unit field as -dry.

The collection of samples using encores, terracores or other field collection devices may result in inconsistent initial sample weights for the parent sample and MS/MSD samples.

The MS/MSD recovery and precision data are calculated based on detected spike concentrations that are adjusted for initial sample weights. As a result of the variability between initial sample weights, the calculated RPD may have increased bias.

EXCEPTIONS:
Volatile Organics by SW846 method 8260B: Lab batch R261525-The recovery in the LCSD sample exceeded the upper laboratory control limit for Ethanol. Ethanol was not detected in the associated field samples. Lab batch R261526-The recovery in the LCS sample exceeded the upper laboratory control limit for Naphthalene. Naphthalene was not detected in the associated field samples.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

Accutest Gulf Coast is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Amy K. Jackson
Project Manager

5/10/2011
Date

Test results meet all requirements of NELAC, unless specified in the narrative.

Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

ATC ASSOCIATES, INC.

Certificate of Analysis Number:

11041256

Report To: ATC ASSOCIATES, INC.
CHAD WASH
400 NORTHEAST DRIVE
UNIT Q
COLUMBIA
SC
29203-
ph: (803) 735-0003 fax: (803) 735-0443

Fax To:

Project Name: 014.25384.0585
Site: PANTRY #585
Site Address:

PO Number:
State: South Carolina
State Cert. No.: 73004001
Date Reported: 5/10/2011

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
MW-PL-1	11041256-01	Water	04/29/2011 8:00	4/30/2011 9:45:00 AM	317931	☐
MW-PL-2	11041256-02	Water	04/29/2011 8:30	4/30/2011 9:45:00 AM	317931	☐
MW-PL-3	11041256-03	Water	04/29/2011 9:00	4/30/2011 9:45:00 AM	317931	☐
IW-1	11041256-04	Water	04/29/2011 10:00	4/30/2011 9:45:00 AM	317931	☐
DMW-4	11041256-05	Water	04/29/2011 10:30	4/30/2011 9:45:00 AM	317931	☐
MW-3	11041256-06	Water	04/29/2011 11:00	4/30/2011 9:45:00 AM	317931	☐
MW-5	11041256-07	Water	04/29/2011 12:00	4/30/2011 9:45:00 AM	317931	☐
MW-12	11041256-08	Water	04/29/2011 12:30	4/30/2011 9:45:00 AM	317931	☐
MW-17	11041256-09	Water	04/29/2011 12:45	4/30/2011 9:45:00 AM	317931	☐
MW-18	11041256-10	Water	04/29/2011 13:30	4/30/2011 9:45:00 AM	317931	☐

Amy K. Jackson
Project Manager

5/10/2011
Date

Ron Benjamin
Laboratory Director

Tristan Davis
Quality Assurance Officer

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5/10/2011 2:07:59 PM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-PL-1 **Collected:** 04/29/2011 8:00 **SPL Sample ID:** 11041256-01

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP				**MCL**	**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND		0.046	1	05/05/11 14:30	SJA	4044521
Surr: 1-Chloro-2-fluorobenzene	221	*	% 33-151	1	05/05/11 14:30	SJA	4044521

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/03/2011 16:28	JDF	1.15

IRON, FERROUS				**MCL**	**M3500-FE B**	**Units: mg/L**	
Iron, Ferrous	ND		0.05	1	04/30/11 11:00	TF	4038005
NITRATE (AS N)				**MCL**	**M4500-NO3 E**	**Units: mg/L**	
Nitrate (As N)	ND		0.01	1	05/04/11 14:35	JZ	4042515
SULFATE BY ASTM D516-90				**MCL**	**ASTM D516-90**	**Units: mg/L**	
Sulfate	24.7		5	1	05/06/11 14:40	TB	4045655
TOTAL METALS BY METHOD 6010C (WATER)				**MCL**	**SW6010C**	**Units: mg/L**	
Lead	ND		0.01	1	05/03/11 19:07	SVW	4042340

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	05/02/2011 17:00	SA	1.00

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-PL-1 **Collected:** 04/29/2011 8:00 **SPL Sample ID:** 11041256-01

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**		
3,3-Dimethyl-1-butanol	ND		10		1	05/05/11 4:16	DN	4043745
Diisopropyl ether	ND		5	150	1	05/05/11 4:16	DN	4043745
Ethanol	ND		100	1000	1	05/05/11 4:16	DN	4043745
t-Butyl alcohol	ND		10	1400	1	05/05/11 4:16	DN	4043745
tert-Amyl alcohol	ND		10	240	1	05/05/11 4:16	DN	4043745
tert-Amyl methyl ether	ND		5	128	1	05/05/11 4:16	DN	4043745
tert-Butyl ethyl ether	ND		5	47	1	05/05/11 4:16	DN	4043745
tert-Butyl formate	ND		1	100	1	05/05/11 4:16	DN	4043745
1,2-Dichloroethane	ND		5		1	05/05/11 4:16	DN	4043745
Benzene	ND		1		1	05/05/11 4:16	DN	4043745
Ethylbenzene	ND		1		1	05/05/11 4:16	DN	4043745
Methyl tert-butyl ether	ND		1		1	05/05/11 4:16	DN	4043745
Naphthalene	ND		5		1	05/05/11 4:16	DN	4043745
Toluene	ND		1		1	05/05/11 4:16	DN	4043745
m,p-Xylene	ND		2		1	05/05/11 4:16	DN	4043745
o-Xylene	ND		2		1	05/05/11 4:16	DN	4043745
Xylenes,Total	ND		2		1	05/05/11 4:16	DN	4043745
Surr: 1,2-Dichloroethane-d4	101		% 79-119		1	05/05/11 4:16	DN	4043745
Surr: 4-Bromofluorobenzene	99.9		% 89-110		1	05/05/11 4:16	DN	4043745
Surr: Toluene-d8	97.1		% 86-110		1	05/05/11 4:16	DN	4043745

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-PL-2 **Collected:** 04/29/2011 8:30 **SPL Sample ID:** 11041256-02

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP			**MCL**	**SW8011**	**Units: ug/L**		
1,2-Dibromoethane	ND		0.044	1	05/05/11 14:50	SJA	4044522
Surr: 1-Chloro-2-fluorobenzene	163	*	% 33-151	1	05/05/11 14:50	SJA	4044522

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/03/2011 16:28	JDF	1.09

IRON, FERROUS			**MCL**	**M3500-FE B**	**Units: mg/L**		
Iron, Ferrous	ND		0.05	1	04/30/11 11:00	TF	4038008
NITRATE (AS N)			**MCL**	**M4500-NO3 E**	**Units: mg/L**		
Nitrate (As N)	ND		0.01	1	05/04/11 14:35	JZ	4042516
SULFATE BY ASTM D516-90			**MCL**	**ASTM D516-90**	**Units: mg/L**		
Sulfate	25.6		5	1	05/06/11 14:40	TB	4045658
TOTAL METALS BY METHOD 6010C (WATER)			**MCL**	**SW6010C**	**Units: mg/L**		
Lead	ND		0.01	1	05/03/11 19:09	SVW	4042341

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	05/02/2011 17:00	SA	1.00

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-PL-2 **Collected:** 04/29/2011 8:30 **SPL Sample ID:** 11041256-02

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**		
3,3-Dimethyl-1-butanol	ND		10		1	05/05/11 4:45	DN	4043746
Diisopropyl ether	ND		5	150	1	05/05/11 4:45	DN	4043746
Ethanol	ND		100	1000	1	05/05/11 4:45	DN	4043746
t-Butyl alcohol	ND		10	1400	1	05/05/11 4:45	DN	4043746
tert-Amyl alcohol	ND		10	240	1	05/05/11 4:45	DN	4043746
tert-Amyl methyl ether	ND		5	128	1	05/05/11 4:45	DN	4043746
tert-Butyl ethyl ether	ND		5	47	1	05/05/11 4:45	DN	4043746
tert-Butyl formate	ND		1	100	1	05/05/11 4:45	DN	4043746
1,2-Dichloroethane	ND		5		1	05/05/11 4:45	DN	4043746
Benzene	ND		1		1	05/05/11 4:45	DN	4043746
Ethylbenzene	ND		1		1	05/05/11 4:45	DN	4043746
Methyl tert-butyl ether	ND		1		1	05/05/11 4:45	DN	4043746
Naphthalene	ND		5		1	05/05/11 4:45	DN	4043746
Toluene	ND		1		1	05/05/11 4:45	DN	4043746
m,p-Xylene	ND		2		1	05/05/11 4:45	DN	4043746
o-Xylene	ND		2		1	05/05/11 4:45	DN	4043746
Xylenes,Total	ND		2		1	05/05/11 4:45	DN	4043746
Surr: 1,2-Dichloroethane-d4	100		% 79-119		1	05/05/11 4:45	DN	4043746
Surr: 4-Bromofluorobenzene	98.0		% 89-110		1	05/05/11 4:45	DN	4043746
Surr: Toluene-d8	98.3		% 86-110		1	05/05/11 4:45	DN	4043746

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-PL-3 **Collected:** 04/29/2011 9:00 **SPL Sample ID:** 11041256-03

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP			**MCL**		**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND		0.043	1	05/05/11 15:11	SJA	4044523
Surr: 1-Chloro-2-fluorobenzene	200	*	% 33-151	1	05/05/11 15:11	SJA	4044523

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/03/2011 16:28	JDF	1.09

IRON, FERROUS			**MCL**		**M3500-FE B**	**Units: mg/L**	
Iron, Ferrous	ND		0.05	1	04/30/11 11:00	TF	4038009
NITRATE (AS N)			**MCL**		**M4500-NO3 E**	**Units: mg/L**	
Nitrate (As N)	0.066		0.01	1	05/06/11 10:05	JZ	4045177
SULFATE BY ASTM D516-90			**MCL**		**ASTM D516-90**	**Units: mg/L**	
Sulfate	22.8		5	1	05/06/11 14:40	TB	4045659
TOTAL METALS BY METHOD 6010C (WATER)			**MCL**		**SW6010C**	**Units: mg/L**	
Lead	ND		0.01	1	05/03/11 19:11	SVW	4042342

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	05/02/2011 17:00	SA	1.00

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-PL-3 **Collected:** 04/29/2011 9:00 **SPL Sample ID:** 11041256-03

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B					**SW8260B**	**Units: ug/L**		
3,3-Dimethyl-1-butanol	ND		10		1	05/05/11 5:14	DN	4043747
Diisopropyl ether	ND		5	150	1	05/05/11 5:14	DN	4043747
Ethanol	ND		100	1000	1	05/05/11 5:14	DN	4043747
t-Butyl alcohol	ND		10	1400	1	05/05/11 5:14	DN	4043747
tert-Amyl alcohol	ND		10	240	1	05/05/11 5:14	DN	4043747
tert-Amyl methyl ether	ND		5	128	1	05/05/11 5:14	DN	4043747
tert-Butyl ethyl ether	ND		5	47	1	05/05/11 5:14	DN	4043747
tert-Butyl formate	ND		1	100	1	05/05/11 5:14	DN	4043747
1,2-Dichloroethane	ND		5		1	05/05/11 5:14	DN	4043747
Benzene	ND		1		1	05/05/11 5:14	DN	4043747
Ethylbenzene	ND		1		1	05/05/11 5:14	DN	4043747
Methyl tert-butyl ether	ND		1		1	05/05/11 5:14	DN	4043747
Naphthalene	ND		5		1	05/05/11 5:14	DN	4043747
Toluene	ND		1		1	05/05/11 5:14	DN	4043747
m,p-Xylene	ND		2		1	05/05/11 5:14	DN	4043747
o-Xylene	ND		2		1	05/05/11 5:14	DN	4043747
Xylenes,Total	ND		2		1	05/05/11 5:14	DN	4043747
Surr: 1,2-Dichloroethane-d4	101	%	79-119		1	05/05/11 5:14	DN	4043747
Surr: 4-Bromofluorobenzene	99.1	%	89-110		1	05/05/11 5:14	DN	4043747
Surr: Toluene-d8	97.7	%	86-110		1	05/05/11 5:14	DN	4043747

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

5/10/2011 3:13:49 PM

Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: IW-1 **Collected:** 04/29/2011 10:00 **SPL Sample ID:** 11041256-04

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP				**MCL**		**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND		0.043		1	05/05/11 15:31	SJA	4044524
Surr: 1-Chloro-2-fluorobenzene	135		% 33-151		1	05/05/11 15:31	SJA	4044524

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/03/2011 16:28	JDF	1.07

IRON, FERROUS				**MCL**		**M3500-FE B**	**Units: mg/L**	
Iron, Ferrous	ND		0.05		1	04/30/11 11:00	TF	4038010
NITRATE (AS N)				**MCL**		**M4500-NO3 E**	**Units: mg/L**	
Nitrate (As N)	ND		0.01		1	05/06/11 10:05	JZ	4045180
SULFATE BY ASTM D516-90				**MCL**		**ASTM D516-90**	**Units: mg/L**	
Sulfate	8.34		5		1	05/06/11 14:40	TB	4045660
TOTAL METALS BY METHOD 6010C (WATER)				**MCL**		**SW6010C**	**Units: mg/L**	
Lead	ND		0.01		1	05/03/11 19:13	SVW	4042343

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	05/02/2011 17:00	SA	1.00

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

5/10/2011 3:13:55 PM

Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: IW-1 **Collected:** 04/29/2011 10:00 **SPL Sample ID:** 11041256-04

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**		
3,3-Dimethyl-1-butanol	ND		10		1	05/05/11 5:43	DN	4043748
Diisopropyl ether	13		5	150	1	05/05/11 5:43	DN	4043748
Ethanol	ND		100	1000	1	05/05/11 5:43	DN	4043748
t-Butyl alcohol	28		10	1400	1	05/05/11 5:43	DN	4043748
tert-Amyl alcohol	170		10	240	1	05/05/11 5:43	DN	4043748
tert-Amyl methyl ether	ND		5	128	1	05/05/11 5:43	DN	4043748
tert-Butyl ethyl ether	ND		5	47	1	05/05/11 5:43	DN	4043748
tert-Butyl formate	ND		1	100	1	05/05/11 5:43	DN	4043748
1,2-Dichloroethane	ND		5		1	05/05/11 5:43	DN	4043748
Benzene	1.2		1		1	05/05/11 5:43	DN	4043748
Ethylbenzene	ND		1		1	05/05/11 5:43	DN	4043748
Methyl tert-butyl ether	1.6		1		1	05/05/11 5:43	DN	4043748
Naphthalene	ND		5		1	05/05/11 5:43	DN	4043748
Toluene	ND		1		1	05/05/11 5:43	DN	4043748
m,p-Xylene	ND		2		1	05/05/11 5:43	DN	4043748
o-Xylene	ND		2		1	05/05/11 5:43	DN	4043748
Xylenes,Total	ND		2		1	05/05/11 5:43	DN	4043748
Surr: 1,2-Dichloroethane-d4	102		% 79-119		1	05/05/11 5:43	DN	4043748
Surr: 4-Bromofluorobenzene	99.1		% 89-110		1	05/05/11 5:43	DN	4043748
Surr: Toluene-d8	98.2		% 86-110		1	05/05/11 5:43	DN	4043748

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: DMW-4 **Collected:** 04/29/2011 10:30 **SPL Sample ID:** 11041256-05

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP				**MCL**		**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND		0.045		1	05/05/11 15:51	SJA	4044525
Surr: 1-Chloro-2-fluorobenzene	247	*	% 33-151		1	05/05/11 15:51	SJA	4044525

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/03/2011 16:28	JDF	1.12

IRON, FERROUS				**MCL**		**M3500-FE B**	**Units: mg/L**	
Iron, Ferrous	ND		0.05		1	04/30/11 11:00	TF	4038011
NITRATE (AS N)				**MCL**		**M4500-NO3 E**	**Units: mg/L**	
Nitrate (As N)	ND		0.01		1	05/06/11 10:05	JZ	4045181
SULFATE BY ASTM D516-90				**MCL**		**ASTM D516-90**	**Units: mg/L**	
Sulfate	21.9		5		1	05/06/11 14:40	TB	4045661
TOTAL METALS BY METHOD 6010C (WATER)				**MCL**		**SW6010C**	**Units: mg/L**	
Lead	ND		0.01		1	05/03/11 19:14	SVW	4042344

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	05/02/2011 17:00	SA	1.00

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
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D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: DMW-4 **Collected:** 04/29/2011 10:30 **SPL Sample ID:** 11041256-05

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**		
3,3-Dimethyl-1-butanol	ND		10		1	05/05/11 6:12	DN	4043749
Diisopropyl ether	ND		5	150	1	05/05/11 6:12	DN	4043749
Ethanol	ND		100	1000	1	05/05/11 6:12	DN	4043749
t-Butyl alcohol	ND		10	1400	1	05/05/11 6:12	DN	4043749
tert-Amyl alcohol	ND		10	240	1	05/05/11 6:12	DN	4043749
tert-Amyl methyl ether	ND		5	128	1	05/05/11 6:12	DN	4043749
tert-Butyl ethyl ether	ND		5	47	1	05/05/11 6:12	DN	4043749
tert-Butyl formate	ND		1	100	1	05/05/11 6:12	DN	4043749
1,2-Dichloroethane	ND		5		1	05/05/11 6:12	DN	4043749
Benzene	ND		1		1	05/05/11 6:12	DN	4043749
Ethylbenzene	ND		1		1	05/05/11 6:12	DN	4043749
Methyl tert-butyl ether	ND		1		1	05/05/11 6:12	DN	4043749
Naphthalene	ND		5		1	05/05/11 6:12	DN	4043749
Toluene	ND		1		1	05/05/11 6:12	DN	4043749
m,p-Xylene	ND		2		1	05/05/11 6:12	DN	4043749
o-Xylene	ND		2		1	05/05/11 6:12	DN	4043749
Xylenes,Total	ND		2		1	05/05/11 6:12	DN	4043749
Surr: 1,2-Dichloroethane-d4	102		% 79-119		1	05/05/11 6:12	DN	4043749
Surr: 4-Bromofluorobenzene	100		% 89-110		1	05/05/11 6:12	DN	4043749
Surr: Toluene-d8	98.3		% 86-110		1	05/05/11 6:12	DN	4043749

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-3 **Collected:** 04/29/2011 11:00 **SPL Sample ID:** 11041256-06

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN			**MCL**		**SW8260B**	**Units: ug/L**	
Benzene	50		1	1	05/06/11 14:39	DN	4046020
Ethylbenzene	ND		1	1	05/06/11 14:39	DN	4046020
Methyl tert-butyl ether	120		1	1	05/06/11 14:39	DN	4046020
Naphthalene	6.6		5	1	05/06/11 14:39	DN	4046020
Toluene	2.5		1	1	05/06/11 14:39	DN	4046020
m,p-Xylene	12		2	1	05/06/11 14:39	DN	4046020
o-Xylene	17		2	1	05/06/11 14:39	DN	4046020
Xylenes,Total	29		2	1	05/06/11 14:39	DN	4046020
Surr: 1,2-Dichloroethane-d4	95.3	%	79-119	1	05/06/11 14:39	DN	4046020
Surr: 4-Bromofluorobenzene	105	%	89-110	1	05/06/11 14:39	DN	4046020
Surr: Toluene-d8	100	%	86-110	1	05/06/11 14:39	DN	4046020

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-5 **Collected:** 04/29/2011 12:00 **SPL Sample ID:** 11041256-07

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN			**MCL**		**SW8260B**	**Units: ug/L**	
Benzene	ND		1	1	05/05/11 1:09	DN	4043829
Ethylbenzene	ND		1	1	05/05/11 1:09	DN	4043829
Methyl tert-butyl ether	ND		1	1	05/05/11 1:09	DN	4043829
Naphthalene	ND		5	1	05/05/11 1:09	DN	4043829
Toluene	ND		1	1	05/05/11 1:09	DN	4043829
m,p-Xylene	ND		2	1	05/05/11 1:09	DN	4043829
o-Xylene	ND		2	1	05/05/11 1:09	DN	4043829
Xylenes,Total	ND		2	1	05/05/11 1:09	DN	4043829
Surr: 1,2-Dichloroethane-d4	87.2	%	79-119	1	05/05/11 1:09	DN	4043829
Surr: 4-Bromofluorobenzene	97.2	%	89-110	1	05/05/11 1:09	DN	4043829
Surr: Toluene-d8	99.8	%	86-110	1	05/05/11 1:09	DN	4043829

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-12 **Collected:** 04/29/2011 12:30 **SPL Sample ID:** 11041256-08

Site: PANTRY #585

Analyses/Method	Result	QUAL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN				**MCL**		**SW8260B**	**Units: ug/L**	
Benzene	ND			1	1	05/04/11 21:20	DN	4043459
Ethylbenzene	ND			1	1	05/04/11 21:20	DN	4043459
Methyl tert-butyl ether	4.2			1	1	05/04/11 21:20	DN	4043459
Naphthalene	ND			5	1	05/04/11 21:20	DN	4043459
Toluene	ND			1	1	05/04/11 21:20	DN	4043459
m,p-Xylene	ND			2	1	05/04/11 21:20	DN	4043459
o-Xylene	ND			2	1	05/04/11 21:20	DN	4043459
Xylenes,Total	ND			2	1	05/04/11 21:20	DN	4043459
Surr: 1,2-Dichloroethane-d4	97.8		%	79-119	1	05/04/11 21:20	DN	4043459
Surr: 4-Bromofluorobenzene	103		%	89-110	1	05/04/11 21:20	DN	4043459
Surr: Toluene-d8	97.9		%	86-110	1	05/04/11 21:20	DN	4043459

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-17 **Collected:** 04/29/2011 12:45 **SPL Sample ID:** 11041256-09

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	7.6		1	1	05/05/11 22:52	CDP	4045033
Ethylbenzene	26		1	1	05/05/11 22:52	CDP	4045033
Methyl tert-butyl ether	ND		1	1	05/05/11 22:52	CDP	4045033
Naphthalene	17		5	1	05/05/11 22:52	CDP	4045033
Toluene	31		1	1	05/05/11 22:52	CDP	4045033
m,p-Xylene	36		2	1	05/05/11 22:52	CDP	4045033
o-Xylene	11		2	1	05/05/11 22:52	CDP	4045033
Xylenes,Total	47		2	1	05/05/11 22:52	CDP	4045033
Surr: 1,2-Dichloroethane-d4	96.4		% 79-119	1	05/05/11 22:52	CDP	4045033
Surr: 4-Bromofluorobenzene	100		% 89-110	1	05/05/11 22:52	CDP	4045033
Surr: Toluene-d8	100		% 86-110	1	05/05/11 22:52	CDP	4045033

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-18 **Collected:** 04/29/2011 13:30 **SPL Sample ID:** 11041256-10

Site: PANTRY #585

Analyses/Method	Result	QUAL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN				**MCL**		**SW8260B**	**Units: ug/L**	
Benzene	ND			1	1	05/05/11 2:07	DN	4043831
Ethylbenzene	ND			1	1	05/05/11 2:07	DN	4043831
Methyl tert-butyl ether	ND			1	1	05/05/11 2:07	DN	4043831
Naphthalene	ND			5	1	05/05/11 2:07	DN	4043831
Toluene	ND			1	1	05/05/11 2:07	DN	4043831
m,p-Xylene	ND			2	1	05/05/11 2:07	DN	4043831
o-Xylene	ND			2	1	05/05/11 2:07	DN	4043831
Xylenes,Total	ND			2	1	05/05/11 2:07	DN	4043831
Surr: 1,2-Dichloroethane-d4	91.4		%	79-119	1	05/05/11 2:07	DN	4043831
Surr: 4-Bromofluorobenzene	105		%	89-110	1	05/05/11 2:07	DN	4043831
Surr: Toluene-d8	98.2		%	86-110	1	05/05/11 2:07	DN	4043831

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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Version 2.1 - Modified February 11, 2011

Quality Control Documentation

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

014.25384.0585

Analysis: EDB & DBCP
Method: SW8011

WorkOrder: 11041256
Lab Batch ID: 100355

Method Blank

RunID: PCBB_110505C-4044518 Units: ug/L
Analysis Date: 05/05/2011 13:29 Analyst: SJA
Preparation Date: 05/04/2011 17:37 Prep By: JDF Method: E504

Analyte	Result	Rep Limit
1,2-Dibromoethane	ND	0.040
Surr: 1-Chloro-2-fluorobenzene	121.1	33-151

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
11041256-01C	MW-PL-1
11041256-02C	MW-PL-2
11041256-03C	MW-PL-3
11041256-04C	IW-1
11041256-05C	DMW-3

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: PCBB_110505C-4044519 Units: ug/L
Analysis Date: 05/05/2011 13:49 Analyst: SJA
Preparation Date: 05/04/2011 17:37 Prep By: JDF Method: E504

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1,2-Dibromoethane	0.570	0.577	101	0.570	0.538	94.4	6.9	30	60	140
Surr: 1-Chloro-2-fluorobenzene	143	159	111	143	152	106	4.6	30	33	151

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 11041248-10
RunID: PCBB_110505C-4044539 Units: ug/L
Analysis Date: 05/05/2011 23:40 Analyst: SJA
Preparation Date: 05/03/2011 16:28 Prep By: JDF Method: E504

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
1,2-Dibromoethane	ND	0.637	0.811	127	0.627	0.841	134	3.68	30	60	140
Surr: 1-Chloro-2-fluorobenzene	ND	160	264	165 *	157	265	169 *	0.539	30	33	151

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

014.25384.0585

Analysis: **Total Metals by Method 6010B - water** **WorkOrder:** **11041256**
Method: **SW6010B** **Lab Batch ID:** **100258**

Method Blank

RunID: ICP7300DV_110503C-4042326 Units: mg/L
Analysis Date: 05/03/2011 18:37 Analyst: SVW
Preparation Date: 05/02/2011 17:00 Prep By: SA Method: SW3010A

Analyte	Result	Rep Limit
Lead	ND	0.01

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
11041256-01B	MW-PL-1
11041256-02B	MW-PL-2
11041256-03B	MW-PL-3
11041256-04B	IW-1
11041256-05B	DMW-3

Laboratory Control Sample (LCS)

RunID: ICP7300DV_110503C-4042 Units: mg/L
Analysis Date: 05/03/2011 18:40 Analyst: SVW
Preparation Date: 05/02/2011 17:00 Prep By: SA Method: SW3010A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Lead	1.000	1.059	105.9	80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 11041253-01
RunID: ICP7300DV_110503C-4042 Units: mg/L
Analysis Date: 05/03/2011 18:46 Analyst: SVW
Preparation Date: 05/02/2011 17:00 Prep By: SA Method: SW3010A

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Lead	ND	1	0.9551	95.51	1	1.026	102.6	7.138	20	75	125

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

014.25384.0585

Analysis: Volatile Organics:Method 8260B+MTBE+Naphthalene
Method: SW8260B
WorkOrder: 11041256
Lab Batch ID: R261505

Method Blank

RunID: QA_110504A-4043443 Units: ug/L
Analysis Date: 05/04/2011 13:41 Analyst: DN

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
11041256-08A	MW-12

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	1.0
Naphthalene	ND	5.0
Toluene	ND	1.0
m,p-Xylene	ND	2.0
o-Xylene	ND	2.0
Xylenes,Total	ND	2.0
Surr: 1,2-Dichloroethane-d4	97.4	79-119
Surr: 4-Bromofluorobenzene	100.1	89-110
Surr: Toluene-d8	99.2	86-110

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: QA_110504A-4043441 Units: ug/L
Analysis Date: 05/04/2011 12:44 Analyst: DN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	20.0	18.5	92.4	20.0	19.6	98.1	6.0	9	87	118
Ethylbenzene	20.0	18.4	92.0	20.0	19.8	99.2	7.5	9	88	118
Methyl tert-butyl ether	20.0	19.1	95.6	20.0	19.6	98.1	2.6	38	79	127
Naphthalene	20.0	23.0	115	20.0	20.8	104	10.1	13	80	129
Toluene	20.0	19.1	95.7	20.0	20.4	102	6.5	10	86	118
m,p-Xylene	40.0	39.5	98.7	40.0	42.4	106	7.1	9	88	119
o-Xylene	20.0	20.2	101	20.0	21.9	110	8.4	9	87	119
Xylenes,Total	60.0	59.7	99.4	60.0	64.3	107	7.5	9	87	119
Surr: 1,2-Dichloroethane-d4	50.0	48.1	96.2	50.0	48.3	96.6	0.4	30	79	119
Surr: 4-Bromofluorobenzene	50.0	51.9	104	50.0	51.9	104	0.0	30	89	110
Surr: Toluene-d8	50.0	50.7	101	50.0	49.8	99.6	1.7	30	86	110

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

014.25384.0585

Analysis: **Volatile Organics:Method 8260B+MTBE+Naphthalene** **WorkOrder:** **11041256**
Method: **SW8260B** **Lab Batch ID:** **R261505**

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 11041245-06
RunID: QA_110504A-4043450 Units: ug/L
Analysis Date: 05/04/2011 17:02 Analyst: DN

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	357	100	455	97.9	100	466	109	2.45	9	87	118
Ethylbenzene	847	100	924	N/C	100	976	N/C	N/C	9	88	118
Methyl tert-butyl ether	5.70	100	102	96.2	100	109	103	6.45	38	79	127
Naphthalene	ND	100	444	444 *	100	475	475 *	6.72	13	80	129
Toluene	52.2	100	136	84.3 *	100	159	107	15.3 *	10	86	118
m,p-Xylene	416	200	603	93.8	200	635	110	5.10	9	88	119
o-Xylene	70.9	100	165	93.7	100	178	107	7.97	9	87	119
Xylenes,Total	487	300	768	93.8	300	813	109	5.72	9	87	119
Surr: 1,2-Dichloroethane-d4	ND	250	253	101	250	262	105	3.59	30	79	119
Surr: 4-Bromofluorobenzene	ND	250	245	97.9	250	269	107	9.25	30	89	110
Surr: Toluene-d8	ND	250	252	101	250	244	97.7	3.12	30	86	110

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
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(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

014.25384.0585

Analysis: Volatile Organics:Method 8260B
Method: SW8260B
WorkOrder: 11041256
Lab Batch ID: R261525

Method Blank

RunID: QB_110504C-4043744 Units: ug/L
Analysis Date: 05/05/2011 0:26 Analyst: DN

Analyte	Result	Rep Limit
1,2-Dichloroethane	ND	5.0
3,3-Dimethyl-1-butanol	ND	10
Benzene	ND	1.0
Diisopropyl ether	ND	5.0
Ethanol	ND	100
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	1.0
Naphthalene	ND	5.0
t-Butyl alcohol	ND	10
tert-Amyl alcohol	ND	10
tert-Amyl methyl ether	ND	5.0
tert-Butyl ethyl ether	ND	5.0
tert-Butyl formate	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	2.0
o-Xylene	ND	2.0
Xylenes,Total	ND	2.0
Surr: 1,2-Dichloroethane-d4	96.2	79-119
Surr: 4-Bromofluorobenzene	99.0	89-110
Surr: Toluene-d8	96.3	86-110

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
11041256-01A	MW-PL-1
11041256-02A	MW-PL-2
11041256-03A	MW-PL-3
11041256-04A	IW-1
11041256-05A	DMW-3

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: QB_110504C-4043742 Units: ug/L
Analysis Date: 05/04/2011 23:29 Analyst: DN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1,2-Dichloroethane	20.0	19.9	99.7	20.0	19.7	98.6	1.2	9	70	130
3,3-Dimethyl-1-butanol	200	225	113	200	228	114	1.4	26	70	130
Benzene	20.0	20.8	104	20.0	20.7	103	0.4	9	70	130
Diisopropyl ether	20.0	21.7	109	20.0	21.9	109	0.9	11	70	130
Ethanol	400	470	117	400	547	137 *	15.2	30	70	130

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

014.25384.0585

Analysis: Volatile Organics:Method 8260B **WorkOrder:** 11041256
Method: SW8260B **Lab Batch ID:** R261525

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: QB_110504C-4043742 Units: ug/L
Analysis Date: 05/04/2011 23:29 Analyst: DN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Ethylbenzene	20.0	19.4	96.9	20.0	19.1	95.5	1.4	9	70	130
Methyl tert-butyl ether	20.0	20.9	104	20.0	20.9	105	0.4	38	70	130
Naphthalene	20.0	25.6	128	20.0	23.7	118	7.7	13	70	130
t-Butyl alcohol	200	212	106	200	214	107	1.2	50	70	130
tert-Amyl alcohol	200	222	111	200	236	118	6.3	26	70	130
tert-Amyl methyl ether	20.0	21.5	107	20.0	21.9	110	2.1	9	70	130
tert-Butyl ethyl ether	20.0	22.4	112	20.0	22.3	111	0.3	11	70	130
tert-Butyl formate	20.0	20.8	104	20.0	21.7	108	4.3	24	70	130
Toluene	20.0	20.3	102	20.0	19.9	99.7	2.0	10	70	130
m,p-Xylene	40.0	40.5	101	40.0	39.8	99.4	1.7	9	70	130
o-Xylene	20.0	20.5	103	20.0	20.4	102	0.4	9	70	130
Xylenes,Total	60	61	100	60	60	100	1.3	9	70	130
Surr: 1,2-Dichloroethane-d4	50.0	47.6	95.1	50.0	47.1	94.2	1.0	30	79	119
Surr: 4-Bromofluorobenzene	50.0	51.2	102	50.0	50.7	101	1.0	30	89	110
Surr: Toluene-d8	50.0	50.3	101	50.0	50.7	101	0.9	30	86	110

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

ATC ASSOCIATES, INC.

014.25384.0585

Analysis: Volatile Organics:Method 8260B+MTBE+Naphthalene
Method: SW8260B
WorkOrder: 11041256
Lab Batch ID: R261526

Method Blank

RunID: QA_110504B-4043827 Units: ug/L
Analysis Date: 05/05/2011 0:12 Analyst: DN

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
11041256-07A	MW-5
11041256-10A	MW-18

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	1.0
Naphthalene	ND	5.0
Toluene	ND	1.0
m,p-Xylene	ND	2.0
o-Xylene	ND	2.0
Xylenes,Total	ND	2.0
Surr: 1,2-Dichloroethane-d4	96.1	79-119
Surr: 4-Bromofluorobenzene	102.5	89-110
Surr: Toluene-d8	98.2	86-110

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: QA_110504B-4043825 Units: ug/L
Analysis Date: 05/04/2011 23:14 Analyst: DN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	20.0	20.7	103	20.0	20.9	104	0.9	9	87	118
Ethylbenzene	20.0	20.7	104	20.0	20.9	105	0.8	9	88	118
Methyl tert-butyl ether	20.0	20.2	101	20.0	20.9	104	3.2	38	79	127
Naphthalene	20.0	26.3	132 *	20.0	23.8	119	10.1	13	80	129
Toluene	20.0	21.3	106	20.0	22.0	110	3.3	10	86	118
m,p-Xylene	40.0	43.7	109	40.0	44.5	111	1.8	9	88	119
o-Xylene	20.0	22.5	112	20.0	23.1	116	2.8	9	87	119
Xylenes,Total	60.0	66.2	110	60.0	67.6	113	2.2	9	87	119
Surr: 1,2-Dichloroethane-d4	50.0	47.5	95.0	50.0	48.7	97.4	2.5	30	79	119
Surr: 4-Bromofluorobenzene	50.0	51.7	103	50.0	52.4	105	1.4	30	89	110
Surr: Toluene-d8	50.0	49.7	99.4	50.0	48.1	96.1	3.3	30	86	110

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

ATC ASSOCIATES, INC.

014.25384.0585

Analysis: Volatile Organics:Method 8260B+MTBE+Naphthalene
Method: SW8260B
WorkOrder: 11041256
Lab Batch ID: R261526

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 11041260-07
RunID: QA_110504B-4043844 Units: ug/L
Analysis Date: 05/05/2011 8:21 Analyst: DN

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	100	91.3	91.3	100	94.3	94.3	3.23	9	87	118
Ethylbenzene	ND	100	88.8	88.8	100	92.5	92.5	4.05	9	88	118
Methyl tert-butyl ether	ND	100	78.8	78.8 *	100	78.9	78.9 *	0.236	38	79	127
Naphthalene	ND	100	263	263 *	100	335	335 *	24.2 *	13	80	129
Toluene	ND	100	96.4	96.0	100	102	102	5.68	10	86	118
m,p-Xylene	ND	200	190	95.1	200	199	99.7	4.76	9	88	119
o-Xylene	ND	100	97.3	97.3	100	101	101	3.37	9	87	119
Xylenes,Total	ND	300	287.3	95.83	300	300.0	100.0	4.291	9	87	119
Surr: 1,2-Dichloroethane-d4	ND	250	216	86.5	250	222	88.7	2.49	30	79	119
Surr: 4-Bromofluorobenzene	ND	250	265	106	250	263	105	0.717	30	89	110
Surr: Toluene-d8	ND	250	248	99.0	250	244	97.5	1.56	30	86	110

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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Quality Control Report

ATC ASSOCIATES, INC.

014.25384.0585

Analysis: Volatile Organics:Method 8260B+MTBE+Naphthalene
Method: SW8260B

WorkOrder: 11041256
Lab Batch ID: R261546

Method Blank

RunID: HA_110505A-4044128 Units: ug/L
Analysis Date: 05/05/2011 12:59 Analyst: CDP

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
11041256-09A	MW-17

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	1.0
Naphthalene	ND	5.0
Toluene	ND	1.0
m,p-Xylene	ND	2.0
o-Xylene	ND	2.0
Xylenes,Total	ND	2.0
Surr: 1,2-Dichloroethane-d4	93.9	79-119
Surr: 4-Bromofluorobenzene	99.2	89-110
Surr: Toluene-d8	100.1	86-110

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: HA_110505A-4044126 Units: ug/L
Analysis Date: 05/05/2011 11:57 Analyst: CDP

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	20.0	20.0	100	20.0	20.4	102	1.8	9	87	118
Ethylbenzene	20.0	19.7	98.4	20.0	20.2	101	2.5	9	88	118
Methyl tert-butyl ether	20.0	21.4	107	20.0	21.5	107	0.4	38	79	127
Naphthalene	20.0	21.4	107	20.0	20.3	101	5.3	13	80	129
Toluene	20.0	19.2	96.0	20.0	20.1	100	4.6	10	86	118
m,p-Xylene	40.0	40.0	100	40.0	41.3	103	3.3	9	88	119
o-Xylene	20.0	20.7	104	20.0	21.2	106	2.0	9	87	119
Xylenes,Total	60.0	60.7	101	60.0	62.5	104	2.8	9	87	119
Surr: 1,2-Dichloroethane-d4	50.0	47.0	93.9	50.0	46.3	92.5	1.5	30	79	119
Surr: 4-Bromofluorobenzene	50.0	49.7	99.5	50.0	50.2	100	0.9	30	89	110
Surr: Toluene-d8	50.0	49.8	99.7	50.0	50.3	101	0.9	30	86	110

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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SCOTT, LA 70583
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Quality Control Report

ATC ASSOCIATES, INC.

014.25384.0585

Analysis: Volatile Organics:Method 8260B+MTBE+Naphthalene **WorkOrder:** 11041256
Method: SW8260B **Lab Batch ID:** R261546

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 11041258-06
RunID: HA_110505A-4045047 Units: ug/L
Analysis Date: 05/05/2011 21:23 Analyst: CDP

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	100	105	103	100	107	106	2.22	9	87	118
Ethylbenzene	5.18	100	109	104	100	106	101	2.56	9	88	118
Methyl tert-butyl ether	2.62	100	106	104	100	109	107	2.77	38	79	127
Naphthalene	ND	100	98.7	98.7	100	97.9	97.9	0.890	13	80	129
Toluene	6.62	100	120	113	100	116	109	3.22	10	86	118
m,p-Xylene	10.5	200	223	106	200	221	105	1.30	9	88	119
o-Xylene	4.45	100	111	106	100	111	106	0.120	9	87	119
Xylenes,Total	15.0	300	334	106	300	332	105	0.827	9	87	119
Surr: 1,2-Dichloroethane-d4	ND	250	235	94.1	250	230	92.2	2.05	30	79	119
Surr: 4-Bromofluorobenzene	ND	250	250	99.9	250	251	100	0.288	30	89	110
Surr: Toluene-d8	ND	250	253	101	250	252	101	0.355	30	86	110

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

ATC ASSOCIATES, INC.

014.25384.0585

Analysis: Volatile Organics:Method 8260B+MTBE+Naphthalene
Method: SW8260B
WorkOrder: 11041256
Lab Batch ID: R261645

Method Blank

RunID: GA_110506A-4046019 Units: ug/L
Analysis Date: 05/06/2011 13:15 Analyst: DN

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
11041256-06A	MW-3

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	1.0
Naphthalene	ND	5.0
Toluene	ND	1.0
m,p-Xylene	ND	2.0
o-Xylene	ND	2.0
Xylenes,Total	ND	2.0
Surr: 1,2-Dichloroethane-d4	93.7	79-119
Surr: 4-Bromofluorobenzene	106.3	89-110
Surr: Toluene-d8	102.0	86-110

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: GA_110506A-4046017 Units: ug/L
Analysis Date: 05/06/2011 11:35 Analyst: DN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	20.0	20.2	101	20.0	20.9	105	3.6	9	87	118
Ethylbenzene	20.0	20.1	101	20.0	20.4	102	1.3	9	88	118
Methyl tert-butyl ether	20.0	20.9	105	20.0	21.7	108	3.4	38	79	127
Naphthalene	20.0	20.6	103	20.0	20.5	103	0.1	13	80	129
Toluene	20.0	18.6	92.9	20.0	18.9	94.5	1.7	10	86	118
m,p-Xylene	40.0	39.5	98.6	40.0	40.2	100	1.8	9	88	119
o-Xylene	20.0	20.5	102	20.0	21.0	105	2.6	9	87	119
Xylenes,Total	60	60	100	60	61	100	2.0	9	87	119
Surr: 1,2-Dichloroethane-d4	50.0	47.8	95.7	50.0	48.1	96.1	0.4	30	79	119
Surr: 4-Bromofluorobenzene	50.0	51.4	103	50.0	51.7	103	0.5	30	89	110
Surr: Toluene-d8	50.0	49.8	99.5	50.0	51.6	103	3.6	30	86	110

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

014.25384.0585

Analysis: Volatile Organics:Method 8260B+MTBE+Naphthalene
Method: SW8260B
WorkOrder: 11041256
Lab Batch ID: R261645

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: L0000025-02
RunID: GA_110506A-4046032 Units: ug/L
Analysis Date: 05/06/2011 20:37 Analyst: DN

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	95.2	2000	2020	96.3	2000	2090	99.8	3.39	9	87	118
Ethylbenzene	ND	2000	1900	94.8	2000	2030	101	6.68	9	88	118
Methyl tert-butyl ether	ND	2000	21.5	1.08 *	2000	2110	105	196 *	38	79	127
Naphthalene	ND	2000	1900	95.0	2000	1930	96.3	1.31	13	80	129
Toluene	ND	2000	1820	91.2	2000	1930	96.5	5.60	10	86	118
m,p-Xylene	ND	4000	3800	94.9	4000	4010	100	5.39	9	88	119
o-Xylene	ND	2000	1980	99.2	2000	2120	106	6.43	9	87	119
Xylenes,Total	ND	6000	5780	96.3	6000	6130	102	5.75	9	87	119
Surr: 1,2-Dichloroethane-d4	ND	5000	4600	92.0	5000	4870	97.5	5.83	30	79	119
Surr: 4-Bromofluorobenzene	ND	5000	5220	104	5000	5140	103	1.51	30	89	110
Surr: Toluene-d8	ND	5000	5100	102	5000	5000	99.9	2.01	30	86	110

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

5/10/2011 3:14:39 PM

Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

014.25384.0585

Analysis: **Iron, Ferrous** **WorkOrder:** **11041256**
Method: **M3500-Fe B** **Lab Batch ID:** **R261230**

Method Blank

RunID: WET_110430O-4038003 Units: mg/L
Analysis Date: 04/30/2011 11:00 Analyst: TF

Analyte	Result	Rep Limit
Iron, Ferrous	ND	0.050

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
11041256-01D	MW-PL-1
11041256-02D	MW-PL-2
11041256-03D	MW-PL-3
11041256-04D	IW-1
11041256-05D	DMW-3

Laboratory Control Sample (LCS)

RunID: WET_110430O-4038004 Units: mg/L
Analysis Date: 04/30/2011 11:00 Analyst: TF

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Iron, Ferrous	1.000	1.010	101.0	80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 11041256-01
RunID: WET_110430O-4038006 Units: mg/L
Analysis Date: 04/30/2011 11:00 Analyst: TF

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Iron, Ferrous	ND	1	1.020	102.0	1	1.030	103.0	0.9756	20	80	120

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

5/10/2011 3:14:41 PM

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ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

014.25384.0585

Analysis: Nitrate (as N)
Method: M4500-NO3 E

WorkOrder: 11041256
Lab Batch ID: R261457

Method Blank

RunID: WET_110504K-4042501 Units: mg/L
Analysis Date: 05/04/2011 14:35 Analyst: JZ

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
11041256-01D	MW-PL-1
11041256-02D	MW-PL-2

Analyte	Result	Rep Limit
Nitrate (As N)	ND	0.010

Laboratory Control Sample (LCS)

RunID: WET_110504K-4042502 Units: mg/L
Analysis Date: 05/04/2011 14:35 Analyst: JZ

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Nitrate (As N)	0.1500	0.1570	104.7	90	110

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 11041184-01
RunID: WET_110504K-4042504 Units: mg/L
Analysis Date: 05/04/2011 14:35 Analyst: JZ

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Nitrate (As N)	ND	0.15	0.1340	89.33	0.15	0.1390	92.67	3.663	20	80	120

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

5/10/2011 3:14:42 PM

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ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

014.25384.0585

Analysis: **Nitrate (as N)** **WorkOrder:** **11041256**
Method: **M4500-NO3 E** **Lab Batch ID:** **R261595**

Method Blank

RunID: WET_110506E-4045175 Units: mg/L
Analysis Date: 05/06/2011 10:05 Analyst: JZ

Analyte	Result	Rep Limit
Nitrate (As N)	ND	0.010

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
11041256-03D	MW-PL-3
11041256-04D	IW-1
11041256-05D	DMW-3

Laboratory Control Sample (LCS)

RunID: WET_110506E-4045176 Units: mg/L
Analysis Date: 05/06/2011 10:05 Analyst: JZ

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Nitrate (As N)	0.1500	0.1490	99.33	90	110

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 11041256-03
RunID: WET_110506E-4045178 Units: mg/L
Analysis Date: 05/06/2011 10:05 Analyst: JZ

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Nitrate (As N)	0.06600	0.15	0.2140	98.67	0.15	0.2160	100.0	0.9302	20	80	120

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

5/10/2011 3:14:43 PM

Version 2.1 - Modified February 11, 2011

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SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

014.25384.0585

Analysis: **Sulfate by ASTM D516-90** **WorkOrder:** **11041256**
Method: **ASTM D516-90** **Lab Batch ID:** **R261616**

Method Blank

RunID: WET_110506H-4045653 Units: mg/L
Analysis Date: 05/06/2011 14:40 Analyst: TB

Analyte	Result	Rep Limit
Sulfate	ND	5.0

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
11041256-01D	MW-PL-1
11041256-02D	MW-PL-2
11041256-03D	MW-PL-3
11041256-04D	IW-1
11041256-05D	DMW-3

Laboratory Control Sample (LCS)

RunID: WET_110506H-4045657 Units: mg/L
Analysis Date: 05/06/2011 14:40 Analyst: TB

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Sulfate	10.00	9.450	94.50	90	110

Sample Duplicate

Original Sample: 11041256-01
RunID: WET_110506H-4045655 Units: mg/L
Analysis Date: 05/06/2011 14:40 Analyst: TB

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Sulfate	24.7	25.39	2.84	20

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

5/10/2011 3:14:45 PM

Version 2.1 - Modified February 11, 2011

Sample Receipt Checklist

And

Chain of Custody

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Sample Receipt Checklist

Workorder:	**11041256**	Received By:	**HJC**
Date and Time Received:	**4/30/2011 9:45:00 AM**	Carrier name:	**FedEx-Pri Saturday Del**
Temperature:	**4.0°C**	Chilled by:	**Water Ice**

		Yes	No		
1.	**Shipping container/cooler in good condition?**	☑	☐	Not Present	☐
2.	**Custody seals intact on shippping container/cooler?**	☑	☐	Not Present	☐
3.	**Custody seals intact on sample bottles?**	☐	☐	Not Present	☑
4.	**Chain of custody present?**	☑	☐		
5.	**Chain of custody signed when relinquished and received?**	☑	☐		
6.	**Chain of custody agrees with sample labels?**	☑	☐		
7.	**Samples in proper container/bottle?**	☑	☐		
8.	**Sample containers intact?**	☑	☐		
9.	**Sufficient sample volume for indicated test?**	☑	☐		
10.	**All samples received within holding time?** Ferrous Iron received out of hold	☐	☑		
11.	**Container/Temp Blank temperature in compliance?**	☑	☐		
12.	**Water - VOA vials have zero headspace?**	☑	☐	VOA Vials Not Present	☐
13.	**Water - Preservation checked upon receipt (except VOA*)?**	☑	☐	Not Applicable	☐

***VOA Preservation Checked After Sample Analysis**

SPL Representative: Jackson, Amy K. **Contact Date & Time:** 5/3/2011 8:10:00 AM

Client Name Contacted: Chad Wash

Non Conformance Issues: All Ferrous Iron samples samples MW-PL-1, MW-PL-2, MW-PL-3 received out of hold.

Client Instructions: All samples were collected 4/29/11. A revised COC will be submitted.

Revised COC 5/10/11

SPL, Inc.
Analysis Request & Chain of Custody Record

SPL Workorder No. 323171
1104126
page 1 of 1

Client Name: ATC
Address: 400 NORTHEAST DR, SUITE Q
City COLUMBIA State SC Zip [redacted]
Phone/Fax: (803) 735-0003
Client Contact: DAVID L. WASH Email:
Project Name/No.: OIL 25384 0.585
Site Name: PANTRY #585
Site Location: ANDERSON, SC
Invoice To: Ph:

matrix: W=water S=soil O=oil A=air SL=sludge B=encore X=other
bottle: P=plastic G=glass A=amber glass V=vial X=other
size: 1=1 liter 4=4oz 8=8oz 16=16oz 40=vial O=other
pres.: 1=HCl 2=HNO3 3=H2SO4 4=other

Requested Analysis

SAMPLE ID	DATE	TIME	comp	grab	matrix	bottle	size	pres.	Number of Containers	BTEX/NAPHTHALENE	1,2-DCA	LEAD	EDB	NITRATE/SULFATE	FERROUS IRON	5-OXYGENATES		
MW-3	4/29/11	1200		X	X	X	X	X	3	X								
MW-5	"	1220		X	X	X	X	X	3	X								
MW-12	"	1300		X	X	X	X	X	3	X								
MW-17	"	1330		X	X	X	X	X	3	X								
MW-18	"	1400		X	X	X	X	X	3	X								
MW-PH-1	"	1430		X	X	X	X	X	8	X	X	X	X	X	X	X		
MW-PH-2	"	1500		X	X	X	X	X	8	X	X	X	X	X	X	X		
MW-PH-3	"	1530		X	X	X	X	X	8	X	X	X	X	X	X	X		
~~DMW-3~~ IW-1	"	1600		X	X	X	X	X	8	X	X	X	X	X	X	X		
~~DMW-3~~ DMW-3	"	1630		X	X	X	X	X	8	X	X	X	X	X	X	X		

Client/Consultant Remarks: xc. W
Laboratory remarks:
Intact? ☐ Y ☐ N
Ice? ☐ Y ☐ N
Temp:

Requested TAT
☐ 1 Business Day ☐ Contract
☐ 2 Business Days ☒ Standard
☐ 3 Business Days
☐ Other
Rush TAT requires prior notice

Special Reporting Requirements Results: Fax ☐ Email ☒ PDF ☐
Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☐

Special Detection Limits (specify):

PM review (initial):

1. Relinquished by Sampler: [signature] / ATC	date 4/29/11	time 0830	2. Received by:
3. Relinquished by:	date	time	4. Received by:
5. Relinquished by:	date	time	6. Received by Laboratory:

☐ 8880 Interchange Drive
Houston, TX 77054 (713) 660-0901

☐ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

☐ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

Original COC 463/5/3/4

SPL Workorder No. 3 171

SPL, Inc.

Analysis Request & Chain of Custody Record

Client Name: ATT
Address:
City
Client
Site Name: DANTRI #
ion: ANDREDS
To:

S=soil O=oil A=air
B=encore X=other

size pres.

Requested Analysis

SAMPLE ID		IME	comp	grab								
MW-3		600		X	X							
MW-5		120		X	X							
-		500		X	X							
-		530		X	X							
MW-18		00		X	X							
- -		30		X	X	X	X	X	X	X	X	
-		500		X	X	X	X	X	X	X	X	
- PW-		530		X	X	X	X	X	X	X		
		600		X	X	X	X	X	X	X	X	
		630		X	X	X	X	X	X	X	X	

Client/Consultant Remarks:

Laboratory remarks:

Intact? Y N
Ice? Y N

ecify):

PM review (initial):

Requested TAT

- ☐ 1 Business Day
- ☐ 2 Business Days
- ☐ 3 Business Days
- ☐ Other

Rush TAT requires prior notice

- ☐ Contract
- ☐ Standard

Special Report

Standard QC ☐

1. Relinquishe

3. Relinquished by:

5. Relinquished by:

sults: Fax PDF

QC TX TRRP ☐

date

date

Drive
660-0901

☐ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

☐ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

SPL, Inc.
Analysis Request & Chain of Custody Record

SPL Workorder No. 317931
1104 1256
page 1 of 1

Client Name: ATC
Address: 400 NORTHEAST DR, SUITE Q
City: COLUMBIA State: SC Zip: [redacted]
Phone/Fax: (803) 735-0003
Client Contact: CHAD L. WASH Email: CHAD.WASH@ATCASSOCIATES.COM
Project Name/No.: 014.25384.0585
Site Name: PANTRY # 585
Site Location: ANDERSON, SC
Invoice To: Ph:

matrix: W=water S=soil O=oil A=air SL=sludge E=encore X=other
bottle: P=plastic G=glass A=amber glass V=vial X=other
size: 1=1 liter 4=4oz 8=8oz 16=16oz V=vial X=other
pres.: 1=HCl 2=HNO3 3=H2SO4 X=other

Requested Analysis

SAMPLE ID	DATE	TIME	comp	grab	matrix	bottle	size	pres.	Number of Containers	BTEX/MTBE/MTBE	1,2-DCA	LEAD	EDB	NITRATE/SULFATE	FERROUS IRON	O-OXYGENATES	
MW-PL-1	4/28/11	0800		X	X	X	X	X	8	X	X	X	X	X	X	X	8
MW-PL-2	"	0830		X	X	X	X	X	8	X	X	X	X	X	X	X	8
MW-PL-3	"	0900		X	X	X	X	X	8	X	X	X	X	X	X	X	8
IW-1	"	1000		X	X	X	X	X	8	X	X	X	X	X	X	X	8
DMW-4	"	1030		X	X	X	X	X	8	X	X	X	X	X	X	X	8
MW-3	"	1100		X	X	X	X	X	3	X							3
MW-5	"	1200		X	X	X	X	X	3	X							3
MW-12	"	1230		X	X	X	X	X	3	X							3
~~KMO-~~ MW-17	"	1245		X	X	X	X	X	3	X							3
~~KMO-~~ MW-18	"	1330		X	X	X	X	X	3	X							3

Client/Consultant Remarks:

Laboratory remarks: CS ON COOLER RL-34 (TH2), (3W) PLCS, D RL-107 (13)

Intact? Y N
Ice? Y N
Temp: 4.0

Requested TAT
- ☐ 1 Business Day
- ☐ 2 Business Days
- ☐ 3 Business Days
- ☐ Contract
- ☒ Standard
- ☐ Other
- Rush TAT requires prior notice

Special Reporting Requirements Results: Fax ☐ Email ☒ PDF ☐
Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☐

Special Detection Limits (specify):

PM review (initial):

1. Relinquished by Sampler: ATC	date 4/28/11	time 1600	2. Received by: Fedex
3. Relinquished by: Fedex	date 04/30/11	time 09:00	4. Received by:
5. Relinquished by:	date 04/30/11	time 09:45	6. Received by Laboratory:

☐ 8880 Interchange Drive
Houston, TX 77054 (713) 660-0901

☐ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

☐ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

FedEx Express US Airbill

FedEx Tracking Number 8731 2639 4263

Recipient's Copy

This portion can be removed for Recipient's records.

7/28/11 FedEx Tracking Number 873126394263

CHAD L. WASH Phone 803 735-0003

ATC

400 NORTHEAST DR, SUITE Q Dept./Floor/Suite/Room

COLUMBIA State SC ZIP 29203

Internal Billing Reference

SHIPPING AND RECEIVING Phone 337 237-4775

SOUTHERN PETROLEUM LABS

100 AMBASSADOR CAFFERY PKWY

Deliver to P.O. boxes or P.O. ZIP codes.

HOLD Weekday FedEx location address REQUIRED. Not available for FedEx First Overnight.

[redacted]

For the HOLD location address or for continuation of your shipping address.

LAFAYETTE State LA ZIP 70583-5300

0422489092

8731 2639 4263

4a Express Package Service * In most locations. Packages up to 150 lbs.

[redacted]

☐ FedEx First Overnight Earliest next business morning delivery to select locations.*

☐ FedEx 2Day Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☐ FedEx Express Saver Third business day.* Saturday Delivery NOT available.

4b Express Freight Service ** In most locations. Packages over 150 lbs.

☐ FedEx 1Day Freight Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected. FedEx 1Day Freight Booking No.

☐ FedEx 2Day Freight Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☐ FedEx 3Day Freight Third business day.** Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

☐ FedEx Envelope* ☐ FedEx Pak* Includes FedEx Small Pak and FedEx Large Pak. ☐ FedEx Box ☐ FedEx Tube ☒ Other

6 Special Handling and Delivery Signature Options

[redacted]

☐ No Signature Required Package may be left without obtaining a signature for delivery.

☐ Direct Signature Someone at recipient's address may sign for delivery. Fee applies.

☐ Indirect Signature If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods?

One box must be checked.

☐ No ☐ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required. ☐ Dry Ice Dry Ice, 9, UN 1845 ____ x ____ kg

☐ Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

7 Payment Bill to:

Sender Acct. No. in Section 1 will be billed. ☒ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. ☐

[redacted]

Total Packages 1 Total Weight 26 lbs. Credit Card Auth.

Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

605

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ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Case Narrative for:

ATC ASSOCIATES, INC.

Certificate of Analysis Number:

L0000970

Report To:		Project Name:	014.25384.0585
ATC ASSOCIATES, INC.		Site:	PANTRY #585
CHAD WASH		Site Address:	
400 NORTHEAST DRIVE			
UNIT Q		PO Number:	
COLUMBIA		State:	South Carolina
SC		State Cert. No.:	73004001
29203-			
ph: (803) 735-0003	fax: (803) 735-0443	Date Reported:	5/26/2011

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data for those samples spiked by the laboratory and may be applicable to other samples of similar matrix from the site. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process. If insufficient sample is supplied for MS/MSD, a Laboratory Control Sample (LCS) and a Laboratory Control Sample Duplicate (LCSD) are reported with the analytical batch and serve as the batch quality control (QC).

Results are reported on a Wet Weight Basis unless otherwise noted in the sample unit field as -dry.

The collection of samples using encores, terracores or other field collection devices may result in inconsistent initial sample weights for the parent sample and MS/MSD samples.

The MS/MSD recovery and precision data are calculated based on detected spike concentrations that are adjusted for initial sample weights. As a result of the variability between initial sample weights, the calculated RPD may have increased bias.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

Accutest Gulf Coast is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

5/26/2011

Amy K. Jackson
Project Manager

Date

Test results meet all requirements of NELAC, unless specified in the narrative.

Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

ATC ASSOCIATES, INC.

Certificate of Analysis Number:

L0000970

Report To: ATC ASSOCIATES, INC.
CHAD WASH
400 NORTHEAST DRIVE
UNIT Q
COLUMBIA
SC
29203-
ph: (803) 735-0003 fax: (803) 735-0443

Fax To:

Project Name: 014.25384.0585
Site: PANTRY #585
Site Address:

PO Number:
State: South Carolina
State Cert. No.: 73004001
Date Reported: 5/26/2011

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
KMO-6	L0000970-01	Water	05/25/2011 14:10	5/26/2011 9:35:00 AM	315835	☐
KMO-10	L0000970-02	Water	05/25/2011 14:30	5/26/2011 9:35:00 AM	315835	☐
KMO-11	L0000970-03	Water	05/25/2011 15:00	5/26/2011 9:35:00 AM	315835	☐

Amy K. Jackson
Project Manager

5/26/2011
Date

Ron Benjamin
Laboratory Director

Tristan Davis
Quality Assurance Officer

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: KMO-6 **Collected:** 05/25/2011 14:10 **SPL Sample ID:** L0000970-01

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND		1	1	05/26/11 12:50	RPJ	4071975
Ethylbenzene	ND		1	1	05/26/11 12:50	RPJ	4071975
Methyl tert-butyl ether	ND		1	1	05/26/11 12:50	RPJ	4071975
Naphthalene	ND		5	1	05/26/11 12:50	RPJ	4071975
Toluene	ND		1	1	05/26/11 12:50	RPJ	4071975
m,p-Xylene	ND		2	1	05/26/11 12:50	RPJ	4071975
o-Xylene	ND		2	1	05/26/11 12:50	RPJ	4071975
Xylenes,Total	ND		2	1	05/26/11 12:50	RPJ	4071975
Surr: 1,2-Dichloroethane-d4	93.2	%	79-119	1	05/26/11 12:50	RPJ	4071975
Surr: 4-Bromofluorobenzene	105	%	89-110	1	05/26/11 12:50	RPJ	4071975
Surr: Toluene-d8	103	%	86-110	1	05/26/11 12:50	RPJ	4071975

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: KMO-10 **Collected:** 05/25/2011 14:30 **SPL Sample ID:** L0000970-02

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN			**MCL**		**SW8260B**	**Units: ug/L**	
Benzene	ND		1	1	05/26/11 13:22	RPJ	4071976
Ethylbenzene	ND		1	1	05/26/11 13:22	RPJ	4071976
Methyl tert-butyl ether	ND		1	1	05/26/11 13:22	RPJ	4071976
Naphthalene	ND		5	1	05/26/11 13:22	RPJ	4071976
Toluene	ND		1	1	05/26/11 13:22	RPJ	4071976
m,p-Xylene	ND		2	1	05/26/11 13:22	RPJ	4071976
o-Xylene	ND		2	1	05/26/11 13:22	RPJ	4071976
Xylenes,Total	ND		2	1	05/26/11 13:22	RPJ	4071976
Surr: 1,2-Dichloroethane-d4	93.5	%	79-119	1	05/26/11 13:22	RPJ	4071976
Surr: 4-Bromofluorobenzene	102	%	89-110	1	05/26/11 13:22	RPJ	4071976
Surr: Toluene-d8	102	%	86-110	1	05/26/11 13:22	RPJ	4071976

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: KMO-11 **Collected:** 05/25/2011 15:00 **SPL Sample ID:** L0000970-03

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND		1	1	05/26/11 13:54	RPJ	4071977
Ethylbenzene	ND		1	1	05/26/11 13:54	RPJ	4071977
Methyl tert-butyl ether	ND		1	1	05/26/11 13:54	RPJ	4071977
Naphthalene	ND		5	1	05/26/11 13:54	RPJ	4071977
Toluene	ND		1	1	05/26/11 13:54	RPJ	4071977
m,p-Xylene	ND		2	1	05/26/11 13:54	RPJ	4071977
o-Xylene	ND		2	1	05/26/11 13:54	RPJ	4071977
Xylenes,Total	ND		2	1	05/26/11 13:54	RPJ	4071977
Surr: 1,2-Dichloroethane-d4	94.1		% 79-119	1	05/26/11 13:54	RPJ	4071977
Surr: 4-Bromofluorobenzene	105		% 89-110	1	05/26/11 13:54	RPJ	4071977
Surr: Toluene-d8	104		% 86-110	1	05/26/11 13:54	RPJ	4071977

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

Version 2.1 - Modified February 11, 2011

Quality Control Documentation

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

014.25384.0585

Analysis: **Volatile Organics:Method 8260B+MTBE+Naphthalene** **WorkOrder:** **L0000970**
Method: **SW8260B** **Lab Batch ID:** **R263087**

Method Blank

RunID: GA_110526A-4071974 Units: ug/L
Analysis Date: 05/26/2011 12:18 Analyst: RPJ

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
L0000970-01A	KMO-6
L0000970-02A	KMO-10
L0000970-03A	KMO-11

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	1.0
Naphthalene	ND	5.0
Toluene	ND	1.0
m,p-Xylene	ND	2.0
o-Xylene	ND	2.0
Xylenes,Total	ND	2.0
Surr: 1,2-Dichloroethane-d4	92.9	79-119
Surr: 4-Bromofluorobenzene	102.6	89-110
Surr: Toluene-d8	101.3	86-110

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: GA_110526A-4071972 Units: ug/L
Analysis Date: 05/26/2011 11:03 Analyst: RPJ

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	20.0	20.0	100	20.0	19.8	99.0	1.0	9	87	118
Ethylbenzene	20.0	20.5	102	20.0	20.6	103	0.3	9	88	118
Methyl tert-butyl ether	20.0	21.2	106	20.0	21.2	106	0.4	38	79	127
Naphthalene	20.0	22.7	113	20.0	22.0	110	3.2	13	80	129
Toluene	20.0	20.0	100	20.0	20.6	103	2.7	10	86	118
m,p-Xylene	40.0	41.4	103	40.0	41.6	104	0.6	9	88	119
o-Xylene	20.0	20.6	103	20.0	20.7	104	0.8	9	87	119
Xylenes,Total	60	62	100	60	62	100	0.6	9	87	119
Surr: 1,2-Dichloroethane-d4	50.0	47.7	95.3	50.0	47.9	95.8	0.5	30	79	119
Surr: 4-Bromofluorobenzene	50.0	52.7	105	50.0	51.6	103	2.0	30	89	110
Surr: Toluene-d8	50.0	50.6	101	50.0	49.2	98.4	2.7	30	86	110

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

014.25384.0585

Analysis:	**Volatile Organics:Method 8260B+MTBE+Naphthalene**	**WorkOrder:**	**L0000970**
Method:	**SW8260B**	**Lab Batch ID:**	**R263087**

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

Version 2.1 - Modified February 11, 2011

Sample Receipt Checklist

And

Chain of Custody

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Sample Receipt Checklist

Workorder:	**L0000970**	Received By:	**SRS**
Date and Time Received:	**5/26/2011 9:35:00 AM**	Carrier name:	**FedEx-Std 1 Day PM**
Temperature:	**3.5°C**	Chilled by:	**Water Ice**

1.	**Shipping container/cooler in good condition?**	Yes ☑	No ☐	Not Present ☐
2.	**Custody seals intact on shippping container/cooler?**	Yes ☑	No ☐	Not Present ☐
3.	**Custody seals intact on sample bottles?**	Yes ☐	No ☐	Not Present ☑
4.	**Chain of custody present?**	Yes ☑	No ☐	
5.	**Chain of custody signed when relinquished and received?**	Yes ☑	No ☐	
6.	**Chain of custody agrees with sample labels?**	Yes ☑	No ☐	
7.	**Samples in proper container/bottle?**	Yes ☑	No ☐	
8.	**Sample containers intact?**	Yes ☑	No ☐	
9.	**Sufficient sample volume for indicated test?**	Yes ☑	No ☐	
10.	**All samples received within holding time?**	Yes ☑	No ☐	
11.	**Container/Temp Blank temperature in compliance?**	Yes ☑	No ☐	
12.	**Water - VOA vials have zero headspace?**	Yes ☑	No ☐	VOA Vials Not Present ☐
13.	**Water - Preservation checked upon receipt (except VOA*)?**	Yes ☐	No ☐	Not Applicable ☑

***VOA Preservation Checked After Sample Analysis**

SPL Representative: _____ **Contact Date & Time:** _____

Client Name Contacted: _____

Non Conformance Issues: _____

Client Instructions: _____

SPL, Inc.
Analysis Request & Chain of Custody Record

SPL Workorder No. 315835
L0000970 page 1 of 1

Client Name: ATC
Address: 600 NORTH PARK DR, SUITE 9
City COLUMBIA State SC Zip [redacted]
Phone/Fax: (803) 735-0003
Client Contact: NAN L. WARD Email:
Project Name/No. [redacted]
Site Name: SANTEE # 585 (014.25384.0585)
Site Location: ANDERSON, SC
Invoice To: Ph:

matrix: W=water S=soil O=oil A=air SL=sludge E=encore X=other
bottle: P=plastic A=amber glass G=glass V=vial X=other
size: 1=1 liter 4=4oz 8=8oz 16=16oz V=vial X=other
pres.: 2=HNO3 C=HCl 3=H2SO4 X=other

Requested Analysis: BTEX / MTBE

SAMPLE ID	DATE	TIME	comp	grab	matrix	bottle	size	pres.	Number of Containers	BTEX / MTBE	
RMO-6	5/25/11	1410		X	W	X	X	X	3	X	3
RMO-10	"	1430		X	W	X	X	X	3	X	3
RMO-11	"	1500		X	W	X	X	X	3	X	3

Client/Consultant Remarks:

Laboratory remarks: CS/cool-N 12544 (13)

Intact? Y N
Ice? Y N
Temp: TIP 3.5

Requested TAT
- Rush [illegible] Contract
- 2 Business Days [illegible] Standard
- 3 Business Days
- Other 24-HR. TURN
- Rush TAT requires prior notice

RUSH

Special Reporting Requirements Results: Fax Email PDF
Standard QC Level 3 QC Level 4 QC TX TRRP LA RECAP

Special Detection Limits (specify):

PM review (initial):

1. Relinquished by Sampler:	date 5/25/11	time 1800	2. Received by: PE
3. Relinquished by: PE	date 5/26/11	time 9:00	4. Received by:
5. Relinquished by:	date 5/26/11	time 9:35	6. Received by Laboratory: Kline Sam

8880 Interchange Drive
Houston, TX 77054 (713) 660-0901

500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

FedEx Express — US Airbill

FedEx Tracking Number: 8730 0104 6977

From This portion can be removed for Recipient's records.

FedEx Tracking Number: 873001046977

Date: 5/25/11

Sender's Name: CHAD L. WASH Phone: 803 735 0003

Company: ATC

Address: 400 NORTHEAST DR, UNIT 9 Dept./Floor/Suite/Room

City: COLUMBIA State: SC ZIP: 29203

2 Your Internal Billing Reference

3 To

Recipient's Name: SHIPPING AND RECEIVING

Company: SOUTHERN PETROLEUM LABS

Address: 500 AMBASSADOR CAFFERY PKWY

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address: Use this line for the HOLD location address or for continuation of your shipping address.

City: SCOTT State: LA ZIP: 70583

Recipient's Copy

4a Express Package Service — Packages up to 150 lbs.

- [redacted] — unless SATURDAY Delivery is selected.
- [x] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.*
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

4b Express Freight Service — Packages over 150 lbs.

- [ ] FedEx 1Day Freight — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

FedEx 1Day Freight Booking No.

5 Packaging

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak and FedEx Large Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other

6 Special Handling and Delivery Signature Options

- [ ] Saturday Delivery — Available for FedEx Standard Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] Saturday Pickup Required
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. No fee applies.

Does this shipment contain dangerous goods?

One box must be checked.

- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Enter UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

7 Payment — Bill to:

Enter FedEx Acct. No. or Credit Card No. below

- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card

Credit Card Auth.

Total Packages Total Weight

Your liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

PEEL FROM THIS CORNER

605

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fedex.com 1.800.Go.FedEx 1.800.463.3339

APPENDIX F

Disposal Manifest

MATERIAL MANIFEST

JBR ENVIRONMENTAL SERVICES
P.O.BOX 4098
SPARTANBURG, SC 29305
Emergency Phone Number: (864)583-2717

Manifest Document No. D 03240438
Page of
Job No. D-03240438

GENERATOR INFORMATION

Name: Pantry#585
US EPA ID No.

Street Address	Mailing Address	Phone No.
1502 E Greenville St Anderson SC	400 NE Drive Suite Q Columbia SC 29203	803-735-0003 Contact: Chad Wash

DESCRIPTION OF MATERIALS

	HM	USDOT Proper Shipping Name (Complete All Items for Hazardous Materials)	Hazard Class	UN/NA ID No.	Packing Group	Containers Qty	Containers type	Total Quantity	Unit Wt./Vol.
a.		Non Hazardous Liquid NOS							3,55 lbs
b.		Non Hazardous Solids NOS				6	SD		27740
c.						7	SD		1240

ADDITIONAL INFORMATION		ERG No.	JBR Profile Code	Facility Use
a.	Liquid		AT-1110336	APPROVED FOR DISPOSAL
b.	Soil		AT 1110 335	
c.				

GENERATORS CERTIFICATION

This is to certify that the above – described materials are properly classified, described, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that none of the materials described above are a hazardous waste as defined by EPA 40 CFR Part 261 or any applicable state law, and unless specifically identified above, the materials contain less than 1,000 ppm total halogens and do not contain quantifiable levels (2 ppm) of PCBs as defined by EPA 40 CFR Parts 279 and 761.

Printed/Typed Name	Signature	Mo./Day/Yr.

TRANSPORTER INFORMATION

Transporter: JBR
Address: 210 Alice Street, Spartanburg, SC 29303
Transporter or EPA ID No.: SCR00004358
Unit No.:
Phone: 864-583-2717

I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above.
Signature: Shipment Date: 3/24/11

I hereby acknowledge that the above-described materials were received from the generator site and were transported to the facility listed below.
Signature: Delivery Date: 3/24/11

FACILITY INFORMATION

Facility: JBR Environmental Services
Address: 210 Alice Street, Spartanburg, SC 29303
Facility or EPA ID No.: SCR00004358
Phone: 864-583-2717
Contact: Rex Russell

I do hereby acknowledge receipt of the materials covered by this manifest except for any discrepancy noted below.
Signature: Receipt Date: 3 24 11

Discrepancies	Routing Codes	Handling Methods
a.	WM3219-6803	
b.		
c.		

White - Facility Retain ● Light Yellow - Return to Generator ● Pink - Transporter Retain ● Orange- Generator Retain

MATERIAL MANIFEST

JBR ENVIRONMENTAL SERVICES
P.O.BOX 4098
SPARTANBURG, SC 29305

Emergency Phone Number: (864)583-2717

Manifest Document No. D-75[illegible]

Page of

Job No. D-05110673

GENERATOR INFORMATION

Name: Party SES ATC Associates

US EPA ID No.

Street Address: Anderson, SC

Mailing Address: Fee Payee, 400 Northeast Drive Unit, Columbia, SC 29203

Phone No.: Fee Payee 803 735. 0003

Contact: Chad Wash

DESCRIPTION OF MATERIALS

	HM	USDOT Proper Shipping Name (Complete All Items for Hazardous Materials)	Hazard Class	UN/NA ID No.	Packing Group	Containers		Total Quantity	Unit Wt./Vol.
a.		Non Haz Liquid				Qty	type		
b.						1	drum	1drum	
c.									

ADDITIONAL INFORMATION		ERG No.	JBR Profile Code	Facility Use
a.				
b.				
c.				

GENERATORS CERTIFICATION

This is to certify that the above – described materials are properly classified, described, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that none of the materials described above are a hazardous waste as defined by EPA 40 CFR Part 261 or any applicable state law, and unless specifically identified above, the materials contain less than 1,000 ppm total halogens and do not contain quantifiable levels (2 ppm) of PCBs as defined by EPA 40 CFR Parts 279 and 761.

Printed/Typed Name: Agent for site Brandon Guiles ATC Associates

Signature: Agent for site ATC

Mo./Day/Yr.: May 11 2011

TRANSPORTER INFORMATION

Transporter: JBR

Address: 210 Alice Street, Spartanburg, SC 29303

Transporter or EPA ID No.: SCR00004358

Unit No.:

Phone: 864-583-2717

I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above.

Signature: [illegible] Shipment Date: 5-11-11

I hereby acknowledge that the above-described materials were received from the generator site and were transported to the facility listed below.

Signature: [illegible] Delivery Date: 5-11-11

FACILITY INFORMATION

Facility: JBR Environmental Services

Address: 210 Alice Street, Spartanburg, SC 29303

Facility or EPA ID No.: SCR00004358

Phone: 864-583-2717

Contact: Rex Russell

I do hereby acknowledge receipt of the materials covered by this manifest except for any discrepancy noted below.

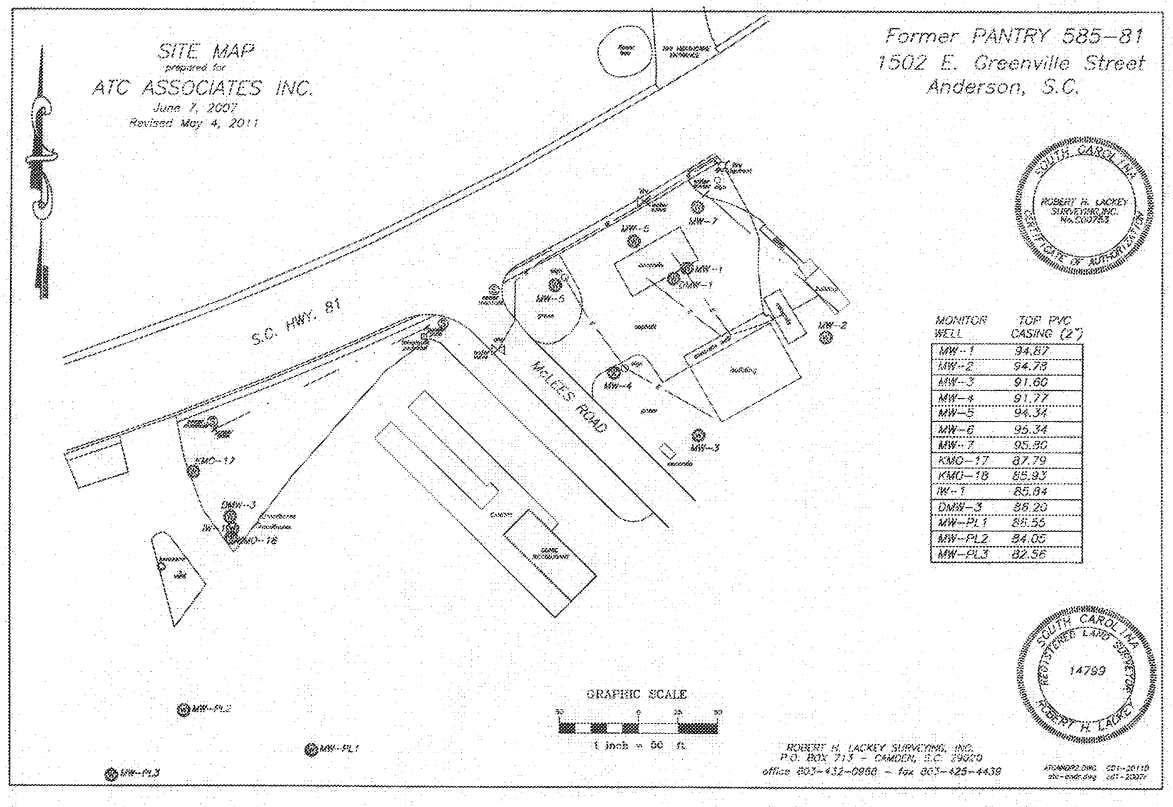
Signature: [illegible] Receipt Date: [illegible]

Discrepancies	Routing Codes	Handling Methods
a.		
b.		
c.		

White - Facility Retain ● Light Yellow - Return to Generator ● Pink - Transporter Retain ● Orange- Generator Retain

APPENDIX G

Surveyed Site Map



MONITOR WELL	TOP PVC CASING (2")
MW-1	94.87
MW-2	94.78
MW-3	91.60
MW-4	91.77
MW-5	94.34
MW-6	95.34
MW-7	95.30
KMO-17	87.79
KMO-18	85.93
IW-1	85.84
DMW-3	86.20
MW-PL1	85.55
MW-PL2	84.05
MW-PL3	82.56

ATC ASSOCIATES INC.

June 16, 2011

Mr. Arthur Shrader, Hydrogeologist
SCDHEC – UST Program
Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201

UST
JUN 16 2011
PROGRAM

Re: Groundwater Assessment Report (revised)
Pantry #585
Anderson County
UST Permit #12458

Mr. Shrader:

Attached is the revised Groundwater Assessment Report for the Pantry #585. The report was previously submitted on May 23, 2011. The revisions included, gauging of monitoring wells on the Pantry property, preparation of a geologic cross-section to include Pantry property, and revision of the laboratory report to present the detection level for EDB as <0.02 ppb.

Specific pages that have changed from the May 23, 2011 version of the report are:
Cover sheet,
Section 2.4 (page 3 of the text),
Table I,
Figures 3, 5, 6, 7,
Appendix E, Laboratory Analytical Report (now including J values).

A complete revised report is attached. Please contact me with any questions you may have at (803) 735-0003.

Sincerely,
ATC Associates Inc.

Fred Lyke, P.G.
Branch Manager

UST
DOCKET
#26 tech

Attachment
cc: Mr. Brent Puzak, The Pantry, Inc.
Ms. Beverly McCloud, SCDHEC

GROUNDWATER ASSESSMENT REPORT
(Revised June 16, 2011)

Pantry #585
1502 East Greenville Street
Anderson, South Carolina
Anderson County
UST Permit #12458

PREPARED FOR:

Mr. Brent Puzak
Director of Gasoline Environmental
The Pantry, Inc.
Post Office Box 8019
Cary, North Carolina 27512

PREPARED BY:

ATC Associates Inc.
400 Northeast Drive, Unit Q
Columbia, South Carolina 29203
(803) 735-0003

Frederick P. Lyke, P.G. #1055

June 16, 2011 (Previously submitted May 23, 2011)

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APPENDIX B Soil Boring Logs
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1.0 INTRODUCTION

Mr. Brent Puzak of The Pantry, Inc. contracted ATC Associates Inc. (ATC) to conduct groundwater assessment activities at the Former Pantry Store #585 facility located at 1502 East Greenville Highway in Anderson, South Carolina. A site location map is presented as **Figure 1**. The scope of work was required by South Carolina Department of Health and Environmental Control (SCDHEC) in correspondence to The Pantry, Inc. dated February 14, 2011. A copy of the SCDHEC correspondence is presented in **Appendix A**.

2.0 METHODOLOGY

2.1 Groundwater Field Screening Activities

On December 15, 2010, ATC personnel oversaw the completion of eight (11) Field Screen soil borings (FS-1 through FS-11) installed with a track-mounted Geoprobe by Tommy Bolyard, a licensed South Carolina well driller. Field Screen soil borings FS-1 though FS-11 were completed into the water table to an approximate depth of 12 feet below ground surface (bgs). Field Screen soil borings FS-1through FS-6, and FS-8 were installed southeast of Monitor Well KMO-18; Field Screen soil boring FS-7 was installed south of Monitor Well KMO-18; Field Screen soil boring FS-9 was installed east of Monitor Well KMO-18; and Field Screen soil borings FS-10 and FS-11 were installed northeast of Monitor Well KMO-18. Field screen soil boring locations are depicted in **Figure 4**, and soil boring logs are presented in **Appendix B**.

2.2 Monitor Well Installations

On March 7, 2011, ATC personnel oversaw the installation of three (3) shallow groundwater monitor wells, by Mr. Tommy Bolyard, a licensed South Carolina well driller, of EDPS, Inc. Mr. Bolyard, using an air-rotary drill rig, installed Monitor Wells MW-PL-1, MW-PL-2, MW-PL-3 to an approximate depth of thirteen (13) feet below ground surface (bgs). Monitor Well MW-PL-1 was installed southeast of Monitor Well KMO-18; Monitor Well MW-PL-2 was installed south of

Monitor Well KMO-18; and Monitor Well MW-PL-3 was installed south of Monitor Well KMO-12. Soil samples were collected for lithologic descriptions during the installation of the monitor wells. Monitor well locations are depicted in **Figure 2**.

On March 7, 2011, ATC personnel oversaw the installation of one (1) shallow groundwater monitor well by Mr. Tommy Bolyard, a licensed South Carolina well driller, of EDPS, Inc. Mr. Bolyard, using an air-rotary drill rig, installed Intermediate Monitor Well IW-1 to an approximate depth of twenty (20) feet bgs. Monitor Well IW-1 was installed near telescoping Monitor Well DMW-3. Soil samples were collected for lithologic descriptions during the monitor well installation. Monitor well locations are depicted in **Figure 2**.

On March 7 and 8, 2011, ATC personnel oversaw the installation of one (1) telescoping monitor well by Mr. Tommy Bolyard, a licensed South Carolina Well Driller, of EDPS, Inc. Mr. Bolyard, using an air-rotary drill rig, installed telescoping Monitor Well DMW-4 to an approximate depth of 55 feet bgs. Monitor Well DMW-3 was installed near Intermediate Monitor Well IW-1. Soil samples were collected for lithologic descriptions during the monitor well installation. Monitor well locations are depicted in **Figure 2**.

The monitor wells were constructed of 2-inch diameter, Schedule 40, flush threaded PVC well casing with factory slotted (0.01-inch opening) Schedule 40 PVC well screen attached. A uniformly graded silica filter pack was installed in the annular space from total depth to approximately 2.0 feet above the top of the screen and followed by approximately 2.0 feet of bentonite pellets, which were hydrated. The remainder of the boring was grouted to land surface. The monitor wells were constructed with the top of the well screen above the water table to allow for detection of potential free-phase liquid hydrocarbon. Monitor Well DMW-3 was constructed with a six-inch diameter outer casing set to 50 feet bgs. Mud rotary techniques were then used to drill through the outer casing and complete the well to 55 feet bgs. The monitor wells were completed with a water-tight, locking PVC cap, protected by a flush finished concrete pad with a 9-inch diameter steel, traffic rated manhole with a bolt down cover. Following installations, the monitor wells were developed with a

centrifugal pump to remove any fine materials that may impede the flow of groundwater into the well. Monitor well construction details and lithologic descriptions are presented in **Appendix C**.

2.3 Soil Organic Vapor Measurements

Soil organic vapor concentration measurements were performed on soil samples and saturated soil samples obtained during the monitor well installations using a Minirae™ Model 2000 PID. Each soil sample was placed in a sealed plastic container and allowed to volatilize for approximately 15 minutes. The PID probe was then inserted into the headspace of the bag, and the highest organic vapor reading observed was recorded for each sample. Organic vapor concentrations are recorded on the monitor well construction logs.

2.4 Site Hydrogeology

During the April 28, 2011, gauging event, no liquid phase hydrocarbons (LPH) were detected at any gauged monitor wells. Groundwater flow direction is to the southwest with a hydraulic gradient of 0.016 feet per foot, as measured between Monitor Wells KMO-18 and MW-PL-3. SCDHEC also requested that shallow monitoring wells located on The Pantry Inc. property be gauged. On June 15, 2011 this gauging event was conducted. Free Product was detected in Monitoring Wells MW-1. MW-5, MW-6, MW-8, MW-10, MW-23, and MW-24.Groundwater measurements are summarized in **Table I**, and a groundwater elevation contour map is depicted in **Figure 3**.

2.5 Groundwater Sampling and Analysis

During the current assessment activities, groundwater samples were collected from Field Screen soil borings FS-1 through FS-11. New, disposable, nitrile gloves were used to maintain sample integrity during the sampling process. The groundwater samples were placed in laboratory supplied containers, placed on ice, and shipped via FedEx to SPL, Inc. in Scott, Louisiana for proper analysis. Proper preservation methods and chain-of-custody procedures were followed throughout the

sampling process. The groundwater samples were analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX), methyl-tert-butyl-ether (MTBE), and naphthalene by EPA method 8260B. During the current assessment activities, groundwater samples were collected from Monitor Wells MW-PL-1, MW-PL-2, MW-PL-3, IW-1, and DMW-4. For the purposes of this investigation, groundwater samples were also collected from Monitor Wells KMO-3, KMO-5, KMO-6, KMO-10, KMO-11, KMO-12, KMO-17, and KMO-18, located at the Citgo-KMO #117 / UST# 00707 facility. A new, disposable, polyethylene bailer was used for the collection of the groundwater samples. Groundwater samples collected from Monitor Wells KMO-3, KMO-5, KMO-6, KMO-10, KMO-11, KMO-12, KMO-17, and KMO-18 were collected using the no-purge method since the water table at these wells properly bracketed the well screen. Monitor Wells MW-PL-1, MW-PL-2, MW-PL-3, IW-1, and DMW-4 were sampled after pH, specific conductivity, temperature, and dissolved oxygen values had equilibrated. All purge water was drummed for proper disposal at a permitted treatment facility. Groundwater sampling field measurements are presented in **Appendix D**. New, disposable, nitrile gloves were used to maintain sample integrity during the sampling process. The groundwater samples were placed in laboratory supplied containers, placed on ice, and shipped via FedEx to SPL, Inc. in Scott, Louisiana for proper analysis. Proper preservation methods and chain-of-custody procedures were followed throughout the sampling process. All groundwater samples were analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX), methyl-tert-butyl-ether (MTBE), and naphthalene by EPA method 8260B. Monitor Wells MW-PL-1 through MW-PL-3, IW-1, and DMW-4 were also analyzed for 1,2-dichloroethane (1,2-DCA) and the eight oxygenates by EPA method 8260B; 1,2-Dibromoethane (EDB) by EPA method 8011; lead by EPA method 6010; nitrate by EPA method M4500; sulfate by ASTM method D516-90; and ferrous iron EPA method M3500.

3.0 LABORATORY ANALYTICAL RESULTS

3.1 Field Screening Analytical Results

Groundwater analytical results for the Field Screen soil boring samples detected benzene concentrations in borings FS-9 and FS-10. Toluene, ethylbenzene, xylenes, and naphthalene

concentrations were detected in boring FS-10. MTBE concentrations were detected in borings FS-7, FS-8, and FS-9.

Benzene and naphthalene concentrations were detected greater than their RBSLs of 5 μg/l and 25 μg/l at boring FS-10. MTBE concentrations were detected greater than its RBSL of 40 μg/l at borings FS-7, FS-8, and FS-10. Laboratory analytical results are summarized in **Table II** and **Figure 4**. Laboratory analytical results are presented in **Appendix E**.

3.2 Groundwater Analytical Results

Groundwater analytical results for the samples collected during the current assessment activities detected benzene concentrations at Monitor Wells KMO-3, KMO-17, and IW-1. Toluene and xylenes concentrations were detected at Monitor Wells KMO-3 and KMO-17. Ethylbenzene concentrations were detected at Monitor Well KMO-17. MTBE concentrations were detected at Monitor Wells KMO-3, KMO-12, and IW-1. Naphthalene concentrations were detected at Monitor Wells KMO-3 and KMO-17. Nitrate concentrations were detected at Monitor Well MW-PL-3. Sulfate concentrations were detected at Monitor Wells MW-PL-1 through MW-PL-3, IW-1, and DMW-4. Eight oxygenates concentrations were detected at Monitor Well IW-1. EDB, 1,2-DCA, ferrous iron, and lead concentrations were not detected at any sampled locations.

Benzene concentrations were detected greater than its risk based screening level (RBSL) of 5 μg/l at Monitor Wells KMO-3 and KMO-17. MTBE concentrations were detected greater than its RBSL of 40 μg/l at Monitor Well KMW-3. Groundwater analytical results are presented in **Table III**, groundwater concentrations are depicted in **Figures 5A-5B**, and groundwater laboratory analytical results are presented in **Appendix E**.

4.0 CONCLUSIONS AND RECOMMENDATIONS

- Eleven (11) Field Screen soil borings (FS-1 through FS-11) were installed during the current

assessment activities.

- Five (5) shallow monitor wells, identified as Monitor Wells MW-PL-1, MW-PL-2, MW-PL-3, IW-1, and DMW-4, were installed during the current assessment activities.
- During the April 28, 2011, gauging event, liquid phase hydrocarbons (LPH) were not detected at any gauged monitor wells.
- Groundwater flow direction is to the southwest with a hydraulic gradient of 0.016 feet per foot, as measured between Monitor Wells KMO-18 and MW-PL-3.
- BTEX concentrations were detected at Monitor Wells KMO-3 and KMO-17. No historical comparison can be made regarding the newly installed monitor wells or groundwater samples collected from Monitor Wells KMO-3, KMO-5, KMO-6, KMO-10, KMO-11, KMO-12, KMO-17, and KMO-18, located at Citgo-KMO #117 / UST# 00707 facility.

Based on current groundwater conditions, ATC Associates, Inc recommends three (3) consecutive aggressive fluid vapor recovery (AFVR) events be conducted at Monitor Wells MW-10, MW-27, and MW-30, followed by a comprehensive groundwater sampling event to determine groundwater concentrations at all monitor wells associated with the Pantry #585 facility.

5.0 REPORT LIMITATIONS

This investigation is intended to be a non-biased assessment of on-site environmental conditions proximate to the location of the former UST system. Subsurface investigative methodologies are in accordance with all applicable state and federal regulatory requirements. The information presented in this report is based upon site-specific observations, generally accepted geological practices, and analytical results for environmental samples collected at the time of the field investigation. All data is believed to represent subsurface conditions at the facility, however, data may not be completely representative of all subsurface conditions.

REFERENCES

ATC Associates Inc., November 20, 2008, *Groundwater Assessment Report – Pantry #585*, Columbia, South Carolina.

SCDHEC, May 15, 2001, *Risk-Based Corrective Action for Petroleum Releases*, Columbia, South Carolina.

TABLES

TABLE I Groundwater Elevation Data Former Pantry #585 - Anderson, South Carolina							
Monitor Well Number	Gauging Date	Top of Casing Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Depth of Well (feet)	Screened Interval (feet)	Water Table Elevation (feet)
MW-1	06/15/11	94.87	11.73	0.62	25	unknown	83.14
MW-2	06/15/11	94.78	10.72	0	20	unknown	84.06
MW-3	06/15/11	91.60	8.04	0	15	unknown	83.56
MW-4	06/15/11	91.77	9.04	0	15	10	82.73
MW-5	06/15/11	94.34	11.54	0.23	15	10	82.80
MW-6	06/15/11	95.34	12.27	0.26	18	10	83.07
MW-7	06/15/11	95.80	9.41	0	15	10	86.39
MW-8	06/15/11	95.06	9.81	0.23	17	10	85.25
MW-9	06/15/11	94.36	12.14	0	17	10	82.22
MW-10	06/15/11	94.29	11.22	0.12	17	10	83.07
MW-12	06/15/11	92.18	10.29	0	17	10	81.89
MW-13	06/15/11	90.12	8.62	0	13	10	81.5
MW-23	06/15/11	90.79	8.40	0.06	20	15	82.39
MW-24	06/15/11	91.49	8.91	0.15	20	15	82.58
MW-31	06/15/11	92.79	10.21	0	20	15	82.58
KMO-3	04/28/2011	87.86	7.28	0	14	10	80.58
KMO-5	04/28/2011	88.22	7.52	0	14	10	80.70
KMO-6	04/28/2011	86.17	7.15	0	15	10	79.02
KMO-10	04/28/2011	84.63	5.85	0	15	10	78.78
KMO-11	04/28/2011	83.38	6.02	0	12	10	77.36

KMO-12	04/28/2011	85.45	5.93	0	15	10	79.52
KMO-17	04/28/2011	87.79	7.88	0	15	10	79.91
KMO-18	04/28/2011	85.93	5.77	0	15	10	80.16
MW-PL-1	04/28/2011	86.55	8.22	0	13	10	78.33
MW-PL-2	04/28/2011	84.05	5.94	0	13	10	78.11
MW-PL-3	04/28/2011	82.56	5.46	0	13	10	77.10
IW-1	04/28/2011	85.84	6.12	0	20	5	79.72
DMW-4	04/28/2011	86.20	6.97	0	55	5	79.23

Top of casing elevations are based on an assumed elevation;
LPH = Liquid Phase Hydrocarbons;
NL = Not Located.
Adjusted Depth to Water = Measured Depth to Water – (0.78 x Free Product Thickness)

TABLE II Field Screening Analytical Results - December 15, 2011 Pantry #585 - Anderson, South Carolina									
Chemical of Concern	RBSL (µg/l)	FS-1 (µg/l)	FS-2 (µg/l)	FS-3 (µg/l)	FS-4 (µg/l)	FS-5 (µg/l)	FS-6 (µg/l)	FS-7 (µg/l)	FS-8 (µg/l)
Free Product Thickness	NA	None	None	None	None	None	None	None	None
Benzene	5	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	1000	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	700	<1	<1	<1	<1	<1	<1	<1	<1
Xylenes	10000	<2	<2	<2	<2	<2	<2	<2	<2
Total BTEX	NA	<5	<5	<5	<5	<5	<5	<5	<5
MTBE	40	<1	<1	<1	<1	<1	<1	**110**	**49**
Naphthalene	25	<5	<5	<5	<5	<5	<5	<5	<5

Bold concentrations represent those greater than the respective RBSL;
NA = Not Applicable.

TABLE II (continued) Field Screening Analytical Results - December 15, 2011 Pantry #585 - Anderson, South Carolina				
Chemical of Concern	RBSL (µg/l)	FS-9 (µg/l)	FS-10 (µg/l)	FS-11 (µg/l)
Free Product Thickness	NA	None	None	None
Benzene	5	2.8	**1800**	<1
Toluene	1000	<1	130	<1
Ethylbenzene	700	<1	300	<1
Xylenes	10000	<2	173	<2
Total BTEX	NA	<6.8	2403	<5
MTBE	40	**270**	<10	<1
Naphthalene	25	<5	**250**	<5

Bold concentrations represent those greater than the respective RBSL;
NA = Not Applicable.

TABLE III Groundwater Analytical Results - April 28, 2011 Former Pantry #585 - Anderson, South Carolina								
Chemical of Concern	RBSL (µg/l)	MW-PL-1 (µg/l)	MW-PL-2 (µg/l)	MW-PL-3 (µg/l)	KMO-3 (µg/l)	KMO-5 (µg/l)	KMO-6 (µg/l)	KMO-10 (µg/l)
Free Product Thickness	NA	None	None	None	None	None	None	None
Benzene	5	<1	<1	<1	**50**	<1	<1	<1
Toluene	1000	<1	<1	<1	2.5	<1	<1	<1
Ethylbenzene	700	<1	<1	<1	<1	<1	<1	<1
Xylenes	10000	<2	<2	<2	29	<2	<2	<2
Total BTEX	NA	<5	<5	<5	<82.5	<5	<5	<5
MTBE	40	<1	<1	<1	**120**	<1	<1	<1
Naphthalene	25	<5	<5	<5	6.6	<5	<5	<5
EDB	0.02	<0.022	<0.022	<0.022	NS	NS	NS	NS
Lead	0.015*	<0.01*	<0.01*	<0.01*	NS	NS	NS	NS
1,2-DCA	NA	<5	<5	<5	NS	NS	NS	NS
Ferrous Iron	NA	<0.05*	<0.05*	<0.05*	NS	NS	NS	NS
Nitrate	NA	<0.01*	<0.01*	0.066*	NS	NS	NS	NS
Sulfate	NA	24.7*	25.6*	22.8*	NS	NS	NS	NS

Bold concentrations represent those greater than the respective RBSL.
NA = Not Applicable; NS = Not Sampled

TABLE III (continued) Groundwater Analytical Results - April 28, 2011 Former Pantry #585 - Anderson, South Carolina								
Chemical of Concern	RBSL (µg/l)	MW-PL-1 (µg/l)	MW-PL-2 (µg/l)	MW-PL-3 (µg/l)	KMO-3 (µg/l)	KMO-5 (µg/l)	KMO-6 (µg/l)	KMO-10 (µg/l)
3,3-Dimethyl-1-butanol	NA	<10	<10	<10	NS	NS	NS	NS
Diisopropyl ether	NA	<5	<5	<5	NS	NS	NS	NS
Ethanol	NA	<100	<100	<100	NS	NS	NS	NS
t-Butyl alcohol	NA	<10	<10	<10	NS	NS	NS	NS
tert-Amyl-alcohol	NA	<10	<10	<10	NS	NS	NS	NS
tert-Amyl methyl ether	NA	<5	<5	<5	NS	NS	NS	NS
tert-Butyl ethyl ether	NA	<5	<5	<5	NS	NS	NS	NS
tert-Butyl formate	NA	<1	<1	<1	NS	NS	NS	NS

Bold concentrations represent those greater than the respective RBSL.
NA = Not Applicable; NS = Not Sampled

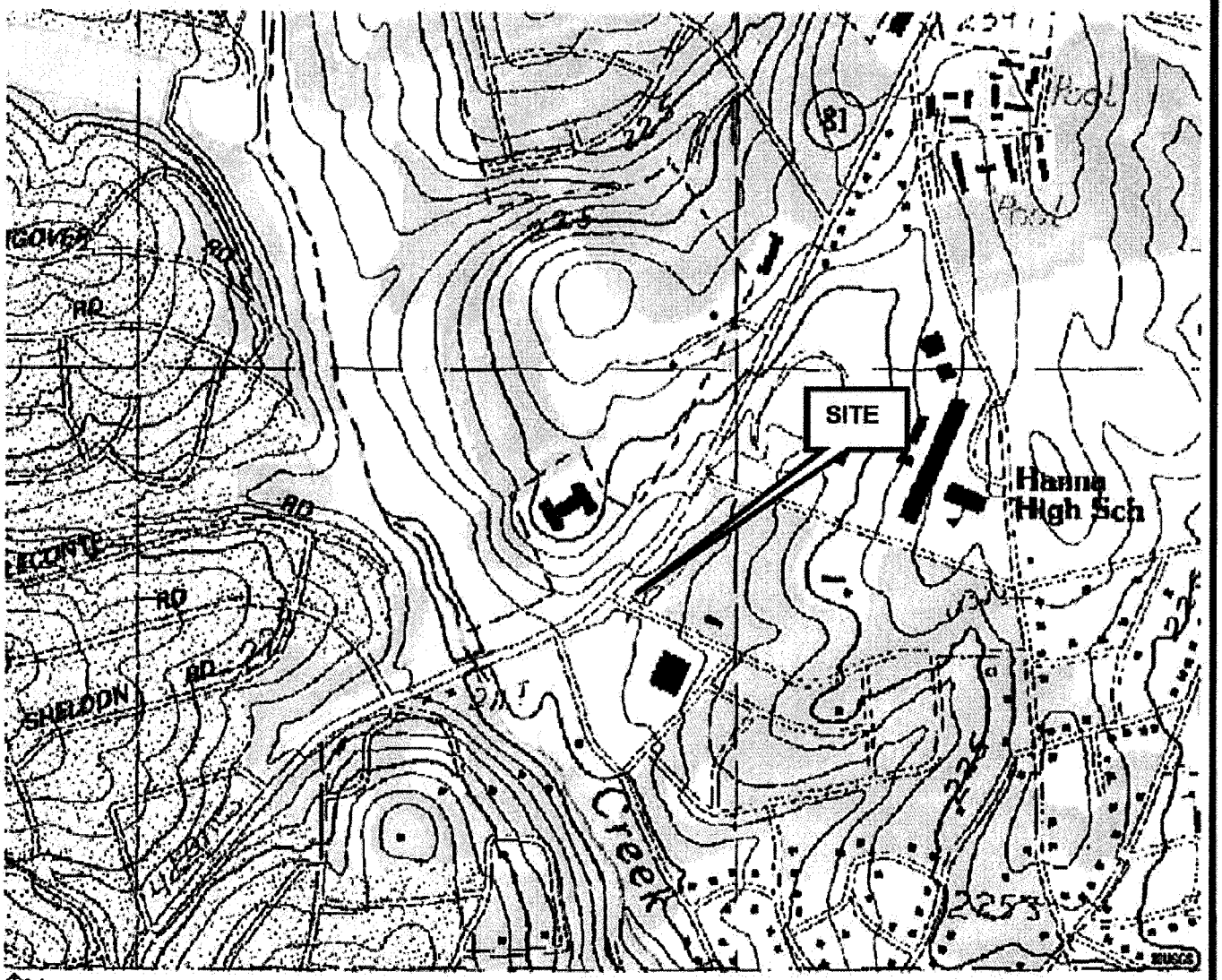
TABLE III (continued) Groundwater Analytical Results - April 28, 2011 Former Pantry #585 - Anderson, South Carolina							
Chemical of Concern	RBSL (µg/l)	KMO-11 (µg/l)	KMO-12 (µg/l)	KMO-17 (µg/l)	KMO-18 (µg/l)	IW-1 (µg/l)	DMW-4 (µg/l)
Free Product Thickness	NA	None	None	None	None	None	None
Benzene	5	<1	<1	**7.6**	<1	1.2	<1
Toluene	1000	<1	<1	31	<1	<1	<1
Ethylbenzene	700	<1	<1	26	<1	<1	<1
Xylenes	10000	<2	<2	47	<2	<2	<2
Total BTEX	NA	<5	<5	111.6	<5	<5.2	<5
MTBE	40	<1	4.2	<1	<1	1.6	<1
Naphthalene	25	<5	<5	17	<5	<5	<5
EDB	0.02	NS	NS	NS	NS	<0.02	<0.02
Lead	0.015*	NS	NS	NS	NS	<0.01*	<0.01*
1,2-DCA	NA	NS	NS	NS	NS	<5	<5
Ferrous Iron	NA	NS	NS	NS	NS	<0.05*	<0.05*
Nitrate	NA	NS	NS	NS	NS	<0.01*	<0.01*
Sulfate	NA	NS	NS	NS	NS	8.34*	21.9*

Bold concentrations represent those greater than the respective RBSL.
NA = Not Applicable; NS = Not Sampled; * denotes results in mg/l.

TABLE III (continued) Groundwater Analytical Results - April 28, 2011 Former Pantry #585 - Anderson, South Carolina							
Chemical of Concern	RBSL (µg/l)	KMO-11 (µg/l)	KMO-12 (µg/l)	KMO-17 (µg/l)	KMO-18 (µg/l)	IW-1 (µg/l)	DMW-4 (µg/l)
3,3-Dimethyl-1-butanol	NA	NS	NS	NS	NS	<10	<10
Diisopropyl ether	NA	NS	NS	NS	NS	13	<5
Ethanol	NA	NS	NS	NS	NS	<100	<100
t-Butyl alcohol	NA	NS	NS	NS	NS	28	<10
tert-Amyl-alcohol	NA	NS	NS	NS	NS	170	<10
tert-Amyl methyl ether	NA	NS	NS	NS	NS	<5	<5
tert-Butyl ethyl ether	NA	NS	NS	NS	NS	<5	<5
tert-Butyl formate	NA	NS	NS	NS	NS	<1	<1

Bold concentrations represent those greater than the respective RBSL;
NA = Not Applicable; NS = Not Sampled.

FIGURES



↑N

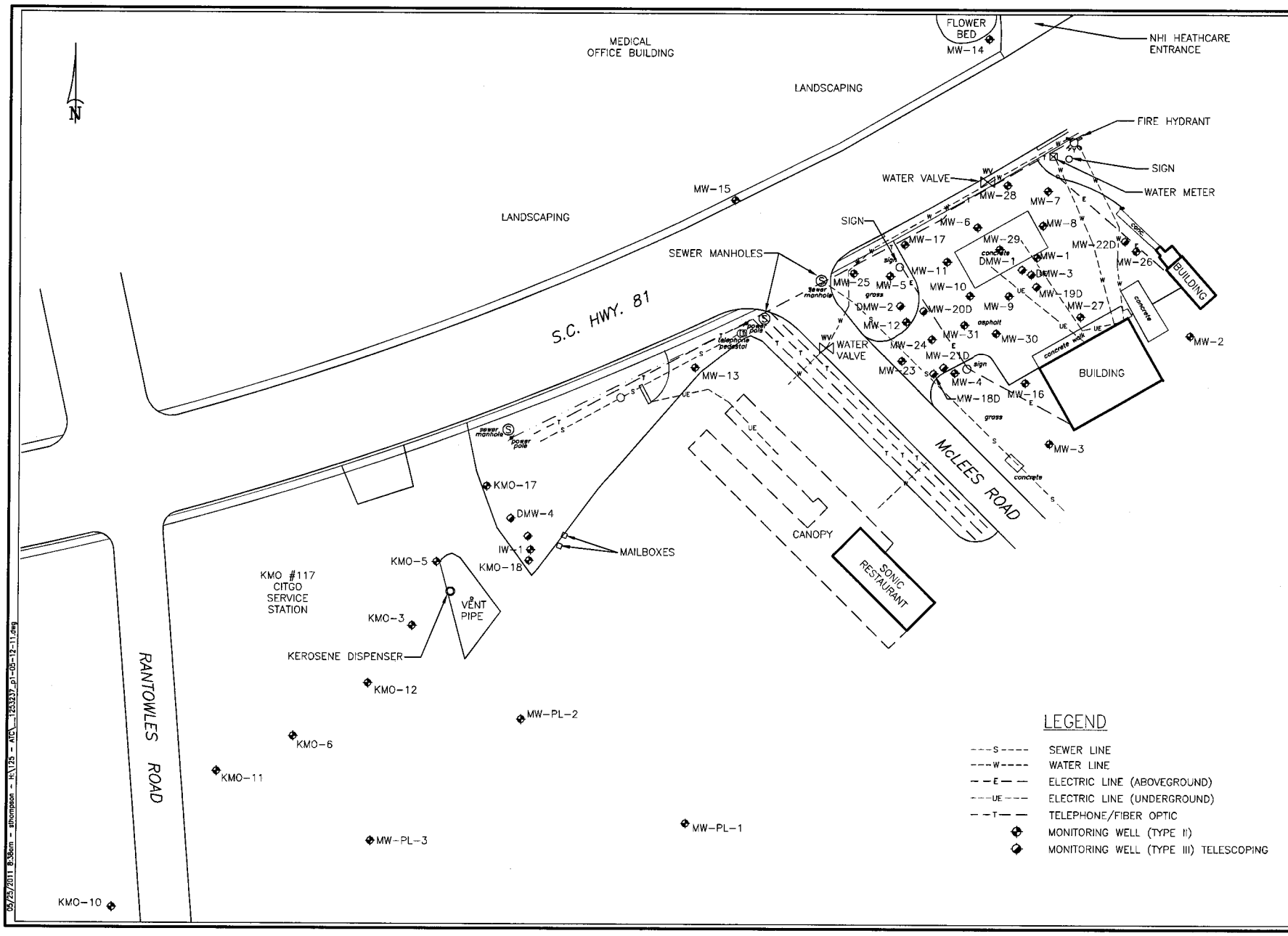
Figure 1: Site Location Map
Pantry #585
1502 East Greenville Street
Anderson, South Carolina
UST Permit #12458

ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q Phone (803) 735-0003
Columbia, South Carolina Fax (803) 735-0443

ATC PROJECT No: 14.25384.0585

SOURCE: USGS Topographic Map Anderson, SC Quadrangle | 1"= 885'



ATC ASSOCIATES INC.
Columbia, South Carolina 29203 (803) 735-0003 FAX (803) 735-0443

TITLE **FIGURE 2** UST PERMIT #12458
SITE MAP
PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

CAD FILE	TYPE CODE	PREP. BY	REV. BY	SCALE	DATE	PROJECT NO.
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NOTES:

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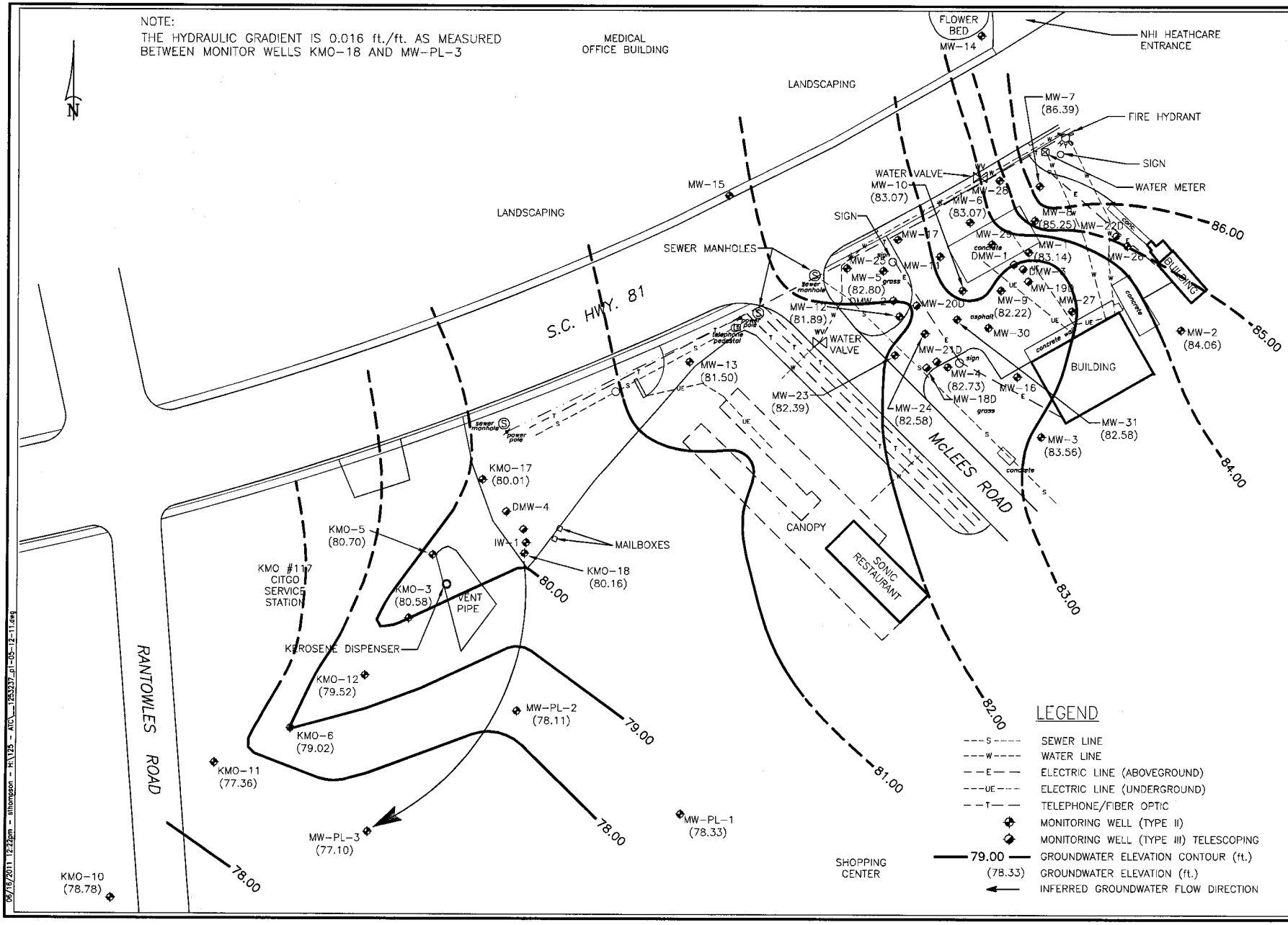
NOTE:
THE HYDRAULIC GRADIENT IS 0.016 ft./ft. AS MEASURED BETWEEN MONITOR WELLS KMO-18 AND MW-PL-3



ATC ASSOCIATES INC.
Columbia, South Carolina 29203 (803) 735-0003 FAX (803) 735-0443

TITLE **FIGURE 3** UST PERMIT #12458
GROUNDWATER ELEVATION CONTOUR MAP
PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

CAD FILE	TYPE CODE	PREP. BY	REV. BY	SCALE	DATE	PROJECT NO.
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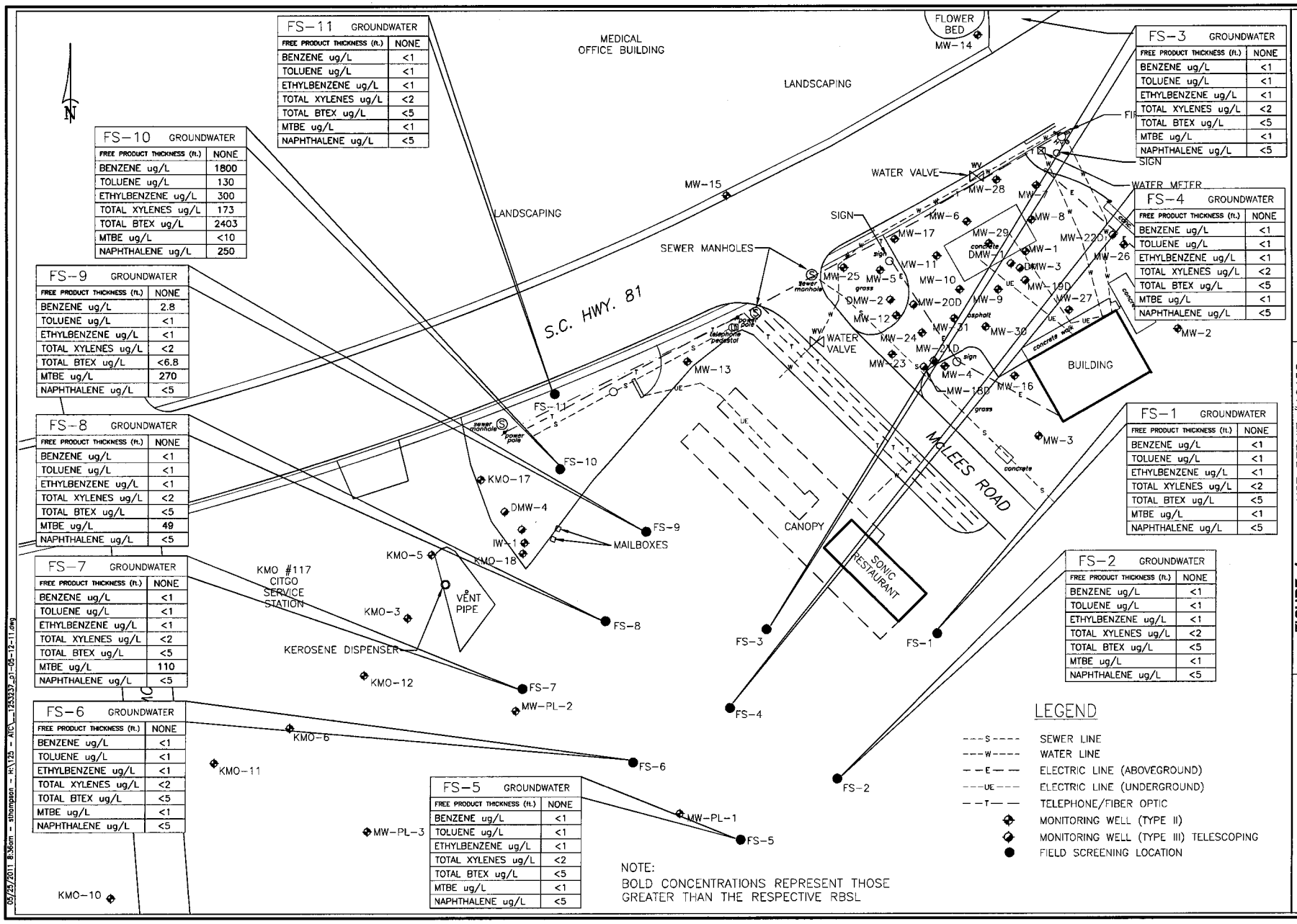


FS-11 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<1
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<5
MTBE ug/L	<1
NAPHTHALENE ug/L	<5

FS-10 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	1800
TOLUENE ug/L	130
ETHYLBENZENE ug/L	300
TOTAL XYLENES ug/L	173
TOTAL BTEX ug/L	2403
MTBE ug/L	<10
NAPHTHALENE ug/L	250

FS-9 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	2.8
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<6.8
MTBE ug/L	270
NAPHTHALENE ug/L	<5

FS-8 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<1
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<5
MTBE ug/L	49
NAPHTHALENE ug/L	<5

FS-7 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<1
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<5
MTBE ug/L	110
NAPHTHALENE ug/L	<5

FS-6 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<1
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<5
MTBE ug/L	<1
NAPHTHALENE ug/L	<5

FS-5 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<1
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<5
MTBE ug/L	<1
NAPHTHALENE ug/L	<5

FS-3 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<1
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<5
MTBE ug/L	<1
NAPHTHALENE ug/L	<5

FS-4 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<1
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<5
MTBE ug/L	<1
NAPHTHALENE ug/L	<5

FS-1 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<1
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<5
MTBE ug/L	<1
NAPHTHALENE ug/L	<5

FS-2 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<1
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<5
MTBE ug/L	<1
NAPHTHALENE ug/L	<5

NOTE:
BOLD CONCENTRATIONS REPRESENT THOSE GREATER THAN THE RESPECTIVE RBSL

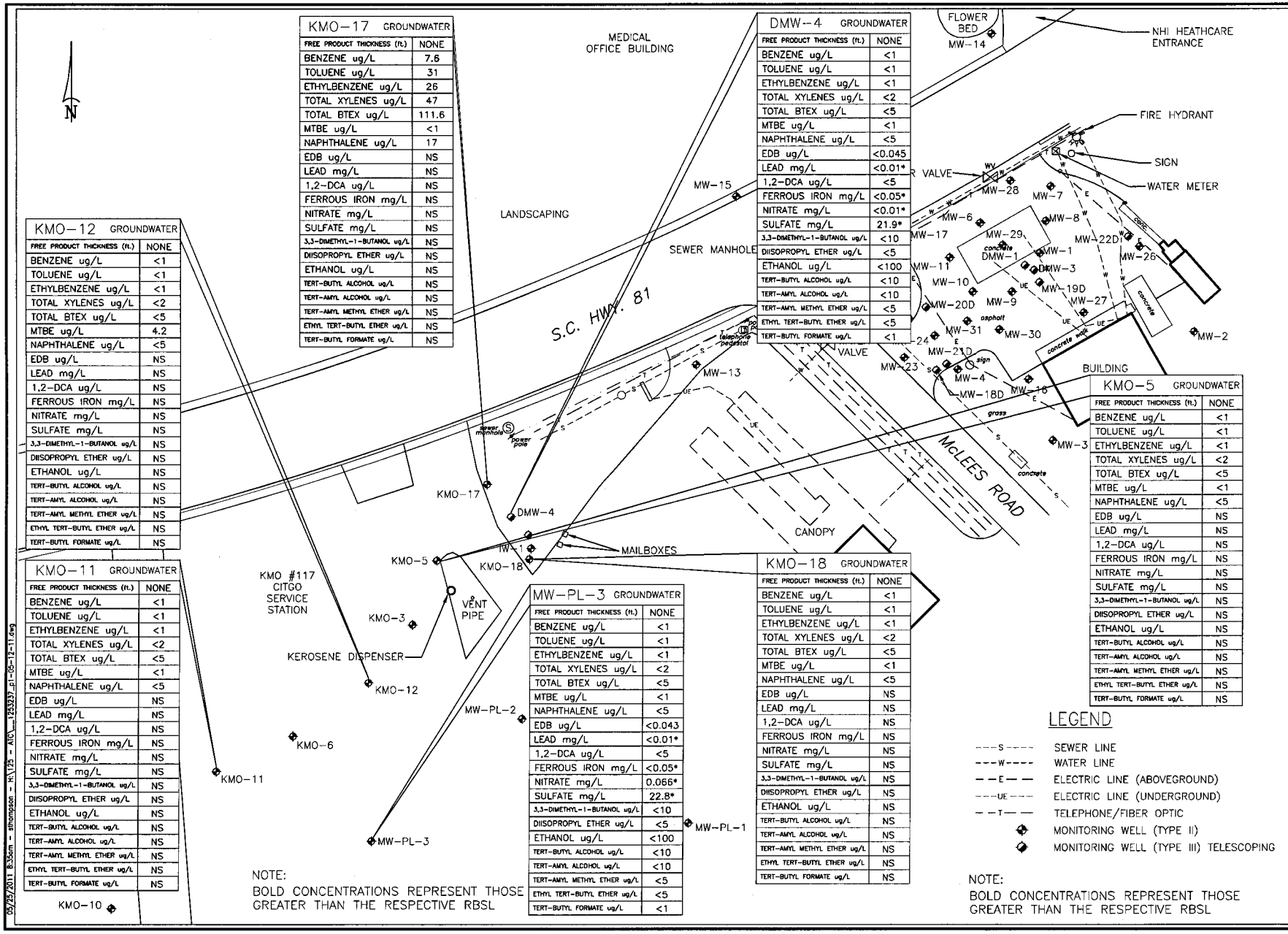
ATC ASSOCIATES INC.
Columbia, South Carolina 29203 (803) 735-0003 FAX (803) 735-0443

TITLE **FIGURE 4**
UST PERMIT #12458
FIELD SCREENING CONCENTRATIONS MAP
PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

CAD FILE	TYPE CODE	PREP. BY	REV. BY	SCALE	DATE	PROJECT NO.
1253237.dwg		CW		1" = 50'	05-11-2011	89.25384.0585

NOTES:

05/25/2011 8:36am - sthompson - H:\125 - A\C_1253237_g1-03-12-11.dwg



KMO-17 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	7.6
TOLUENE ug/L	31
ETHYLBENZENE ug/L	26
TOTAL XYLENES ug/L	47
TOTAL BTEX ug/L	111.6
MTBE ug/L	<1
NAPHTHALENE ug/L	17
EDB ug/L	NS
LEAD mg/L	NS
1,2-DCA ug/L	NS
FERROUS IRON mg/L	NS
NITRATE mg/L	NS
SULFATE mg/L	NS
3,3-DIMETHYL-1-BUTANOL ug/L	NS
DIISOPROPYL ETHER ug/L	NS
ETHANOL ug/L	NS
TERT-BUTYL ALCOHOL ug/L	NS
TERT-AMYL ALCOHOL ug/L	NS
TERT-AMYL METHYL ETHER ug/L	NS
ETHYL TERT-BUTYL ETHER ug/L	NS
TERT-BUTYL FORMATE ug/L	NS

DMW-4 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<1
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<5
MTBE ug/L	<1
NAPHTHALENE ug/L	<5
EDB ug/L	<0.045
LEAD mg/L	<0.01*
1,2-DCA ug/L	<5
FERROUS IRON mg/L	<0.05*
NITRATE mg/L	<0.01*
SULFATE mg/L	21.9*
3,3-DIMETHYL-1-BUTANOL ug/L	<10
DIISOPROPYL ETHER ug/L	<5
ETHANOL ug/L	<100
TERT-BUTYL ALCOHOL ug/L	<10
TERT-AMYL ALCOHOL ug/L	<10
TERT-AMYL METHYL ETHER ug/L	<5
ETHYL TERT-BUTYL ETHER ug/L	<5
TERT-BUTYL FORMATE ug/L	<1

KMO-12 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<1
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<5
MTBE ug/L	4.2
NAPHTHALENE ug/L	<5
EDB ug/L	NS
LEAD mg/L	NS
1,2-DCA ug/L	NS
FERROUS IRON mg/L	NS
NITRATE mg/L	NS
SULFATE mg/L	NS
3,3-DIMETHYL-1-BUTANOL ug/L	NS
DIISOPROPYL ETHER ug/L	NS
ETHANOL ug/L	NS
TERT-BUTYL ALCOHOL ug/L	NS
TERT-AMYL ALCOHOL ug/L	NS
TERT-AMYL METHYL ETHER ug/L	NS
ETHYL TERT-BUTYL ETHER ug/L	NS
TERT-BUTYL FORMATE ug/L	NS

KMO-11 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<1
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<5
MTBE ug/L	<1
NAPHTHALENE ug/L	<5
EDB ug/L	NS
LEAD mg/L	NS
1,2-DCA ug/L	NS
FERROUS IRON mg/L	NS
NITRATE mg/L	NS
SULFATE mg/L	NS
3,3-DIMETHYL-1-BUTANOL ug/L	NS
DIISOPROPYL ETHER ug/L	NS
ETHANOL ug/L	NS
TERT-BUTYL ALCOHOL ug/L	NS
TERT-AMYL ALCOHOL ug/L	NS
TERT-AMYL METHYL ETHER ug/L	NS
ETHYL TERT-BUTYL ETHER ug/L	NS
TERT-BUTYL FORMATE ug/L	NS

MW-PL-3 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<1
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<5
MTBE ug/L	<1
NAPHTHALENE ug/L	<5
EDB ug/L	<0.043
LEAD mg/L	<0.01*
1,2-DCA ug/L	<5
FERROUS IRON mg/L	<0.05*
NITRATE mg/L	0.066*
SULFATE mg/L	22.8*
3,3-DIMETHYL-1-BUTANOL ug/L	<10
DIISOPROPYL ETHER ug/L	<5
ETHANOL ug/L	<100
TERT-BUTYL ALCOHOL ug/L	<10
TERT-AMYL ALCOHOL ug/L	<10
TERT-AMYL METHYL ETHER ug/L	<5
ETHYL TERT-BUTYL ETHER ug/L	<5
TERT-BUTYL FORMATE ug/L	<1

KMO-18 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<1
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<5
MTBE ug/L	<1
NAPHTHALENE ug/L	<5
EDB ug/L	NS
LEAD mg/L	NS
1,2-DCA ug/L	NS
FERROUS IRON mg/L	NS
NITRATE mg/L	NS
SULFATE mg/L	NS
3,3-DIMETHYL-1-BUTANOL ug/L	NS
DIISOPROPYL ETHER ug/L	NS
ETHANOL ug/L	NS
TERT-BUTYL ALCOHOL ug/L	NS
TERT-AMYL ALCOHOL ug/L	NS
TERT-AMYL METHYL ETHER ug/L	NS
ETHYL TERT-BUTYL ETHER ug/L	NS
TERT-BUTYL FORMATE ug/L	NS

KMO-5 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<1
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<5
MTBE ug/L	<1
NAPHTHALENE ug/L	<5
EDB ug/L	NS
LEAD mg/L	NS
1,2-DCA ug/L	NS
FERROUS IRON mg/L	NS
NITRATE mg/L	NS
SULFATE mg/L	NS
3,3-DIMETHYL-1-BUTANOL ug/L	NS
DIISOPROPYL ETHER ug/L	NS
ETHANOL ug/L	NS
TERT-BUTYL ALCOHOL ug/L	NS
TERT-AMYL ALCOHOL ug/L	NS
TERT-AMYL METHYL ETHER ug/L	NS
ETHYL TERT-BUTYL ETHER ug/L	NS
TERT-BUTYL FORMATE ug/L	NS

NOTE:
BOLD CONCENTRATIONS REPRESENT THOSE GREATER THAN THE RESPECTIVE RBSL

LEGEND

- SEWER LINE
- WATER LINE
- ELECTRIC LINE (ABOVEGROUND)
- ELECTRIC LINE (UNDERGROUND)
- TELEPHONE/FIBER OPTIC
- MONITORING WELL (TYPE II)
- MONITORING WELL (TYPE III) TELESCOPING

NOTE:
BOLD CONCENTRATIONS REPRESENT THOSE GREATER THAN THE RESPECTIVE RBSL

NOTES:

TITLE **FIGURE 5A** UST PERMIT #12458
GROUNDWATER CONCENTRATIONS MAP
PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

ATC ASSOCIATES INC.
Columbia, South Carolina 29203 (803) 735-0003 FAX (803) 735-0443

CAD FILE	TYPE CODE	PREP. BY	REV. BY	SCALE	DATE	PROJECT NO.
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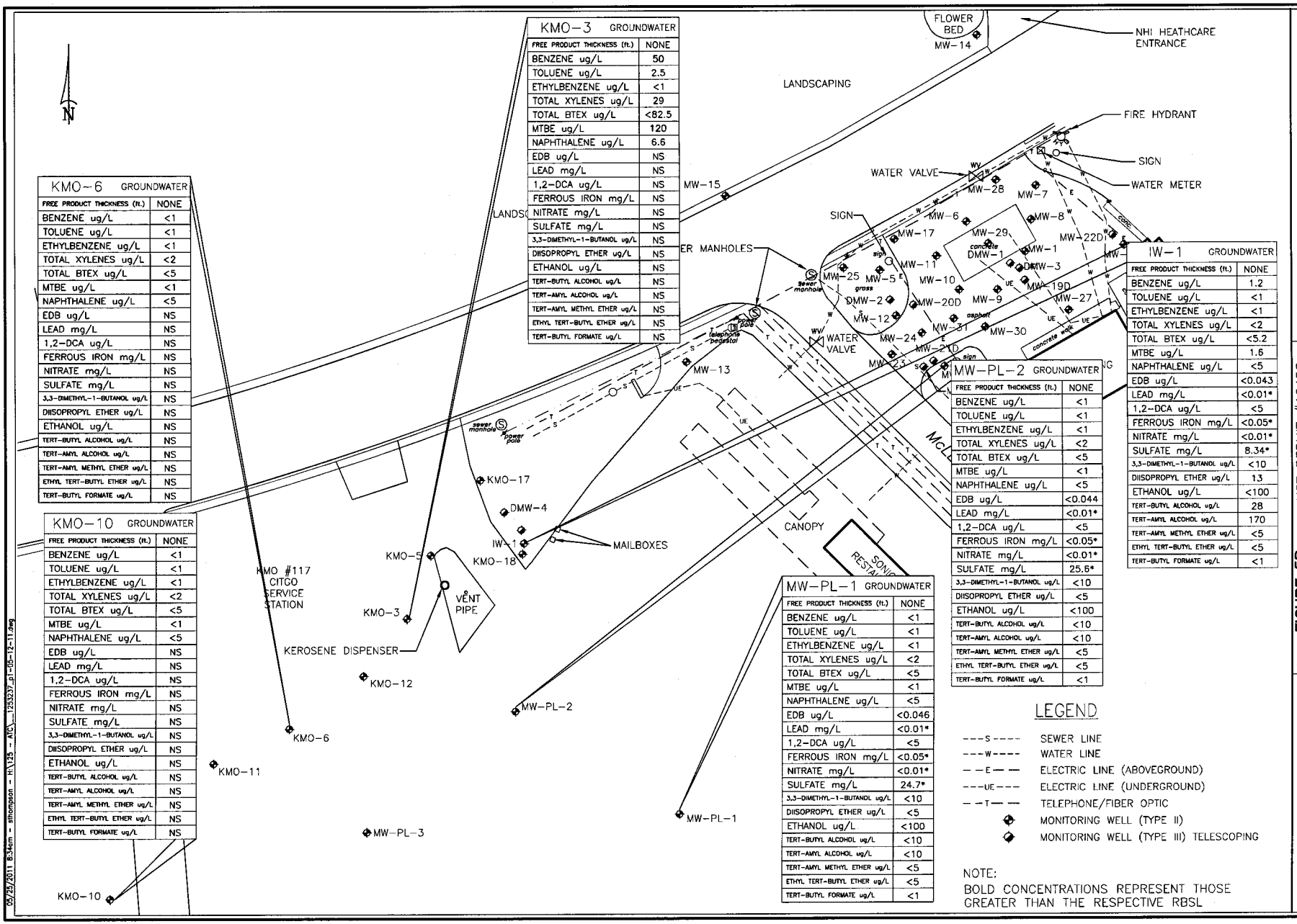

KMO-3 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	50
TOLUENE ug/L	2.5
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	29
TOTAL BTEX ug/L	<82.5
MTBE ug/L	120
NAPHTHALENE ug/L	6.6
EDB ug/L	NS
LEAD mg/L	NS
1,2-DCA ug/L	NS
FERROUS IRON mg/L	NS
NITRATE mg/L	NS
SULFATE mg/L	NS
3,3-DIMETHYL-1-BUTANOL ug/L	NS
DIISOPROPYL ETHER ug/L	NS
ETHANOL ug/L	NS
TERT-BUTYL ALCOHOL ug/L	NS
TERT-AMYL ALCOHOL ug/L	NS
TERT-AMYL METHYL ETHER ug/L	NS
ETHYL TERT-BUTYL ETHER ug/L	NS
TERT-BUTYL FORMATE ug/L	NS

KMO-6 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<1
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<5
MTBE ug/L	<1
NAPHTHALENE ug/L	<5
EDB ug/L	NS
LEAD mg/L	NS
1,2-DCA ug/L	NS
FERROUS IRON mg/L	NS
NITRATE mg/L	NS
SULFATE mg/L	NS
3,3-DIMETHYL-1-BUTANOL ug/L	NS
DIISOPROPYL ETHER ug/L	NS
ETHANOL ug/L	NS
TERT-BUTYL ALCOHOL ug/L	NS
TERT-AMYL ALCOHOL ug/L	NS
TERT-AMYL METHYL ETHER ug/L	NS
ETHYL TERT-BUTYL ETHER ug/L	NS
TERT-BUTYL FORMATE ug/L	NS

KMO-10 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<1
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<5
MTBE ug/L	<1
NAPHTHALENE ug/L	<5
EDB ug/L	NS
LEAD mg/L	NS
1,2-DCA ug/L	NS
FERROUS IRON mg/L	NS
NITRATE mg/L	NS
SULFATE mg/L	NS
3,3-DIMETHYL-1-BUTANOL ug/L	NS
DIISOPROPYL ETHER ug/L	NS
ETHANOL ug/L	NS
TERT-BUTYL ALCOHOL ug/L	NS
TERT-AMYL ALCOHOL ug/L	NS
TERT-AMYL METHYL ETHER ug/L	NS
ETHYL TERT-BUTYL ETHER ug/L	NS
TERT-BUTYL FORMATE ug/L	NS

IW-1 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	1.2
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<5.2
MTBE ug/L	1.6
NAPHTHALENE ug/L	<5
EDB ug/L	<0.043
LEAD mg/L	<0.01*
1,2-DCA ug/L	<5
FERROUS IRON mg/L	<0.05*
NITRATE mg/L	<0.01*
SULFATE mg/L	8.34*
3,3-DIMETHYL-1-BUTANOL ug/L	<10
DIISOPROPYL ETHER ug/L	13
ETHANOL ug/L	<100
TERT-BUTYL ALCOHOL ug/L	28
TERT-AMYL ALCOHOL ug/L	170
TERT-AMYL METHYL ETHER ug/L	<5
ETHYL TERT-BUTYL ETHER ug/L	<5
TERT-BUTYL FORMATE ug/L	<1

MW-PL-2 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<1
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<5
MTBE ug/L	<1
NAPHTHALENE ug/L	<5
EDB ug/L	<0.044
LEAD mg/L	<0.01*
1,2-DCA ug/L	<5
FERROUS IRON mg/L	<0.05*
NITRATE mg/L	<0.01*
SULFATE mg/L	25.6*
3,3-DIMETHYL-1-BUTANOL ug/L	<10
DIISOPROPYL ETHER ug/L	<5
ETHANOL ug/L	<100
TERT-BUTYL ALCOHOL ug/L	<10
TERT-AMYL ALCOHOL ug/L	<10
TERT-AMYL METHYL ETHER ug/L	<5
ETHYL TERT-BUTYL ETHER ug/L	<5
TERT-BUTYL FORMATE ug/L	<1

MW-PL-1 GROUNDWATER	
FREE PRODUCT THICKNESS (ft.)	NONE
BENZENE ug/L	<1
TOLUENE ug/L	<1
ETHYLBENZENE ug/L	<1
TOTAL XYLENES ug/L	<2
TOTAL BTEX ug/L	<5
MTBE ug/L	<1
NAPHTHALENE ug/L	<5
EDB ug/L	<0.046
LEAD mg/L	<0.01*
1,2-DCA ug/L	<5
FERROUS IRON mg/L	<0.05*
NITRATE mg/L	<0.01*
SULFATE mg/L	24.7*
3,3-DIMETHYL-1-BUTANOL ug/L	<10
DIISOPROPYL ETHER ug/L	<5
ETHANOL ug/L	<100
TERT-BUTYL ALCOHOL ug/L	<10
TERT-AMYL ALCOHOL ug/L	<10
TERT-AMYL METHYL ETHER ug/L	<5
ETHYL TERT-BUTYL ETHER ug/L	<5
TERT-BUTYL FORMATE ug/L	<1

LEGEND

- ---S---- SEWER LINE
- ---W---- WATER LINE
- --E-- ELECTRIC LINE (ABOVEGROUND)
- ---UE--- ELECTRIC LINE (UNDERGROUND)
- --T-- TELEPHONE/FIBER OPTIC
- MONITORING WELL (TYPE II)
- MONITORING WELL (TYPE III) TELESCOPING

NOTE:
BOLD CONCENTRATIONS REPRESENT THOSE GREATER THAN THE RESPECTIVE RBSL

NOTES:

TITLE FIGURE 5B
GROUNDWATER CONCENTRATIONS MAP
PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

UST PERMIT #12458

ATC ASSOCIATES INC.
Columbia, South Carolina 29203 (803) 735-0003 FAX (803) 735-0443

SCALE	DATE	PROJECT NO.
1" = 50'	05-11-2011	89.25384.0585

CAD FILE	TYPE CODE	PREP. BY	REV. BY
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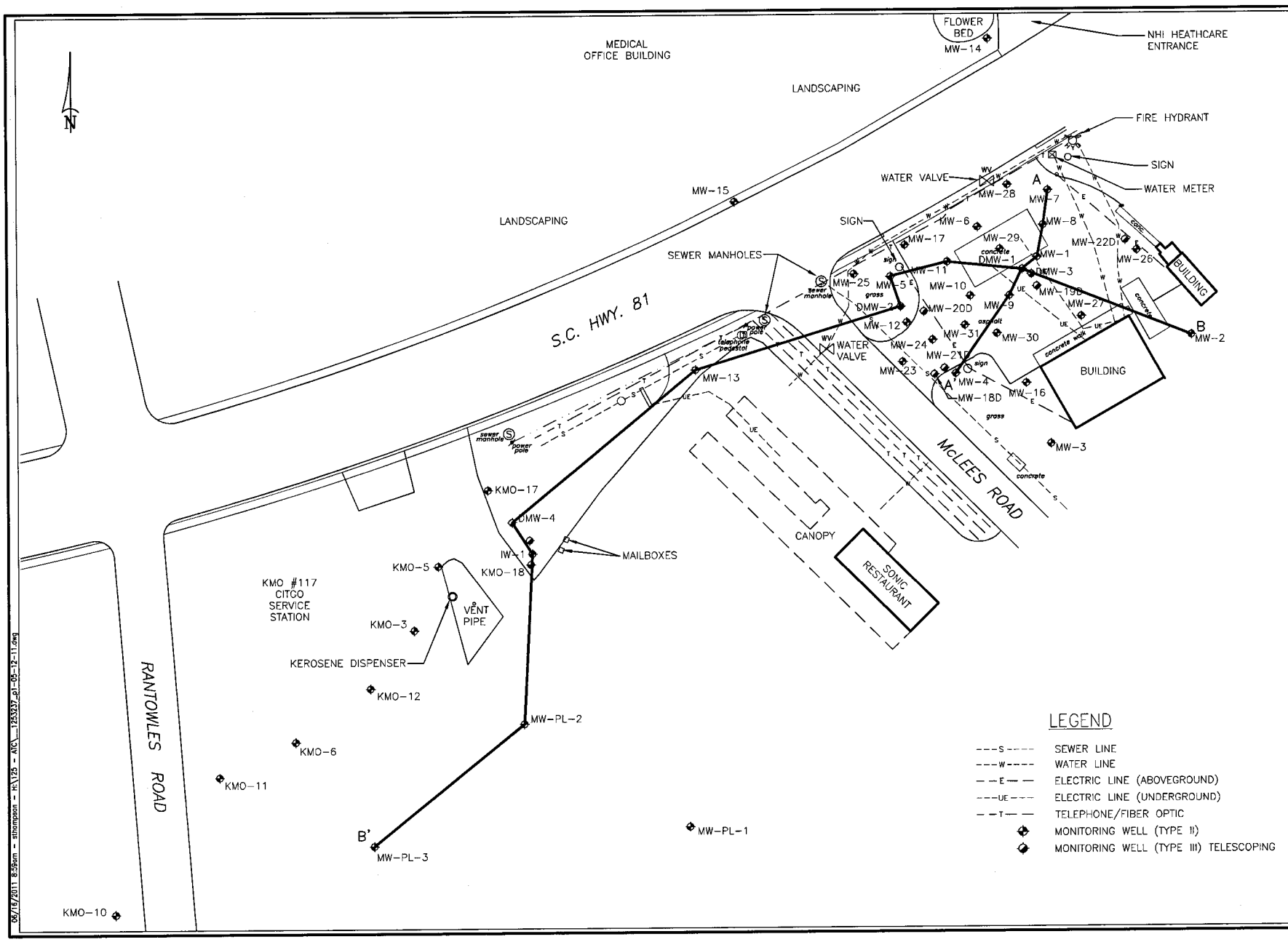

06/16/2011 8:59am - sthompson - H:\125 - ATC_125237_p1-05-12-11.dwg

ATC ASSOCIATES INC.
Columbia, South Carolina 29203 (803) 735-0003 FAX (803) 735-0443

SCALE	DATE	PROJECT NO.
1" = 50'	06-09-2011	89.25384.0585

TITLE **FIGURE 6** UST PERMIT #12458
SITE MAP
PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

CAD FILE	TYPE CODE	PREP. BY	REV. BY
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NOTES:

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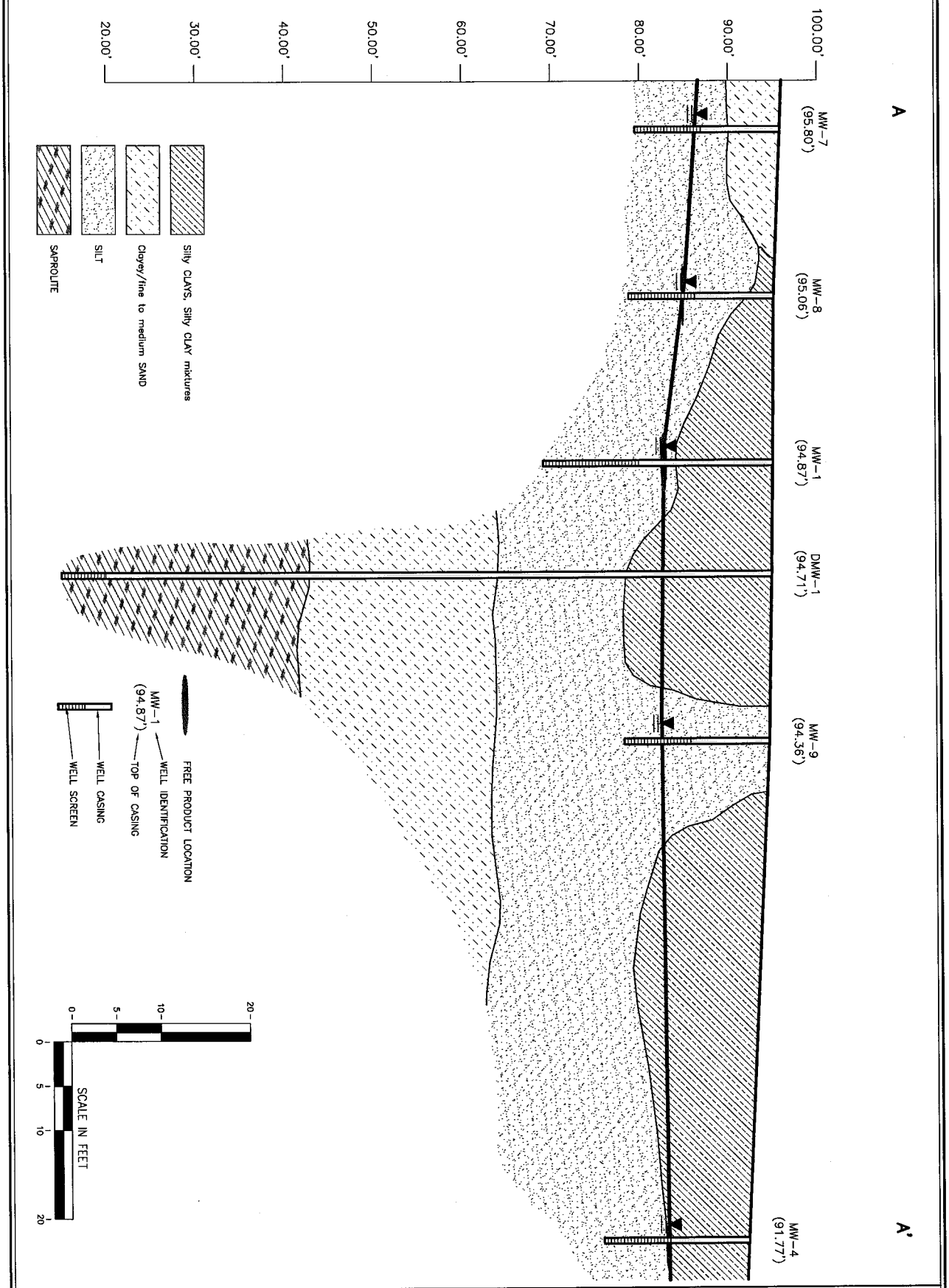

NOTES:

TITLE **FIGURE 7** UST PERMIT #12458
GEOLOGIC CROSS-SECTION A-A'
PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

ATC ASSOCIATES INC.
Columbia, South Carolina 29203 (803) 735-0003 FAX (803) 735-0443

CAD FILE	TYPE CODE	PREP. BY	REV. BY	SCALE	DATE	PROJECT NO.
1253237.dwg		CW		AS SHOWN	06-09-2011	89.25384.0585

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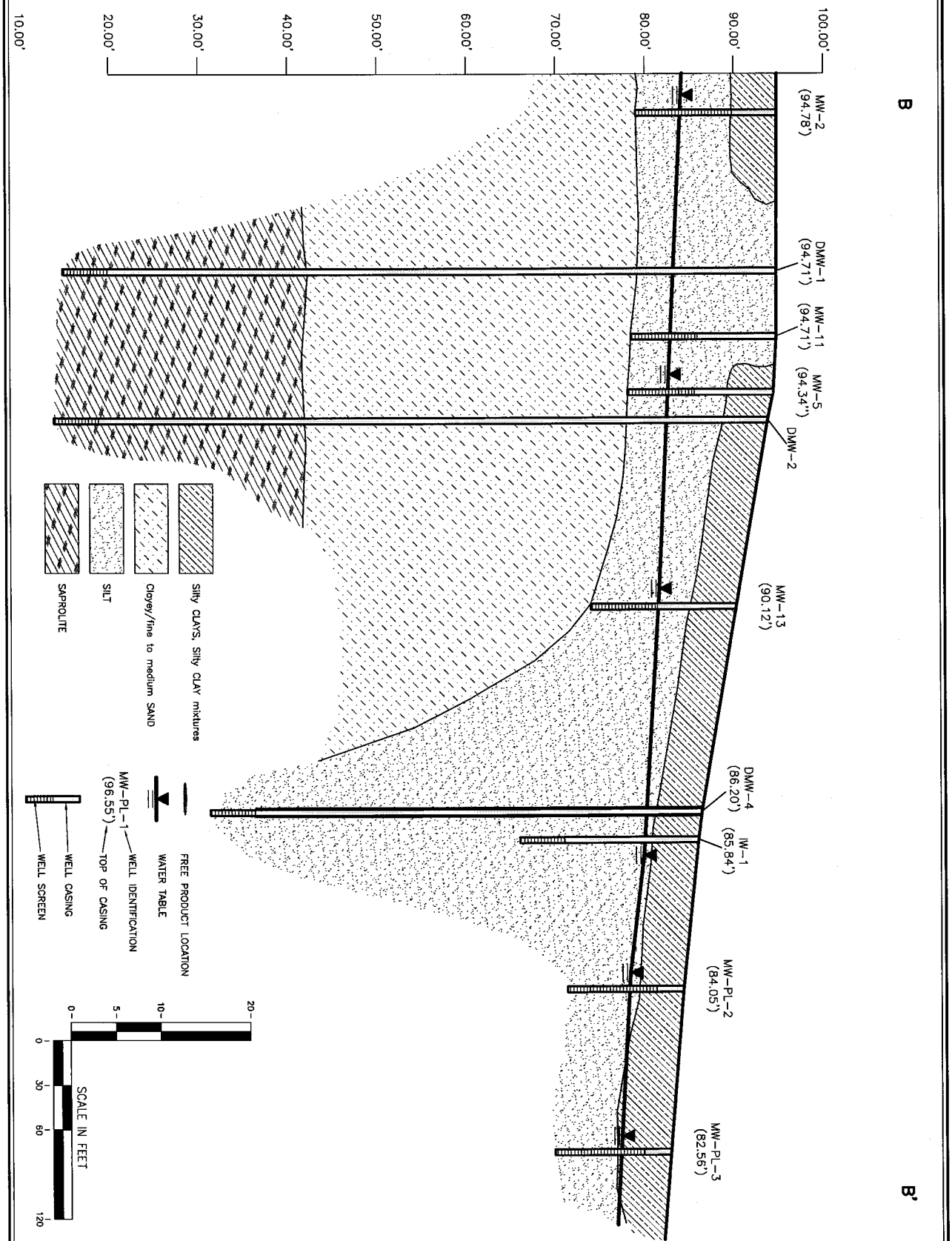


NOTES:

TITLE **FIGURE 8** UST PERMIT #12458
GEOLOGIC CROSS-SECTION B-B'
PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

ATC ASSOCIATES INC.
Columbia, South Carolina 29203 (803) 735-0003 FAX (803) 735-0443

CAD FILE	TYPE CODE	PREP. BY	REV. BY	SCALE	DATE	PROJECT NO.
1253237.dwg		CW		AS SHOWN	06-09-2011	89.25384.0585

APPENDIX A

SCDHEC Correspondence

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

FEB 1 0 2010

RECEIVED FEB 1 1 2010 BY:

MR BRENT PUZAK
PANTRY INC
PO BOX 1410
SANFORD NC 27331-1410

Re: Assessment Report Directive
81 Food Mart (Former Pantry #585), 1502 East Greenville Street, Anderson, SC
UST Permit #12458; CA #38230: MWA #UMW-23466
Release reported November 10, 1992
AFVR and Tier II Report received March 31, 2009
Tier II Assessment Plan and Cost Proposal received January 28, 2010
Anderson County

Dear Mr. Puzak:

The Underground Storage Tank (UST) Division of the South Carolina Department of Health and Environmental Control (SCDHEC) recognizes your commitment to continue work at this site utilizing your own contractor. The UST Division has reviewed the referenced Tier II Assessment Plan and cost agreement submitted by ATC Associates Columbia. The assessment should be conducted in accordance with the Tier II Assessment guidance document and must be conducted in compliance with all applicable regulations. All shallow wells are to be installed with screen intervals that bracket the water table. The Tier II assessment document and appendices may be obtained from our website at http://www.scdhec.gov/environment/lwm/html/ust_guidance_docs.htm.

Assessment activities at the site should begin immediately upon receipt of this letter. Cost agreement number 38230 has been approved for the amount shown on the enclosed cost agreement form. Please be aware that the February 1, 2006 SUPERB Allowable Costs sheet states that "If vertical and horizontal extent of chemicals of concern are not fully defined by this tier report, additional mobilizations may not be approved by the Department." Therefore, equipment mobilization costs have not been approved for this scope of work. **Please contact the department prior to well installation for concurrence regarding the final well locations.** No-purge sampling is required for previously installed monitoring wells (except deep wells) where the screens bracket the water table.

Please note the following adjustments to the submitted cost agreement:

- Equipment mobilizations were deleted, as the plume was not previously defined.
- Personnel mobilizations were reduced from five to four.
- Monitoring well installation has been changed from hand auger to drilled (Item 9.A. to 9.B.). One shallow well has been added. This well should be installed in the impacted area south of MW-12 so the plume can be modeled.
- Deep monitoring well has been approved for 63 feet **(if necessary)** for a telescoping well adjacent to the added shallow well to ensure the vertical extent of the plume is defined. Please note that the screens of the permanent monitoring wells must bracket the water table, and all monitoring well locations must be technically justified or installation costs will not be approved. Field screening points converted to wells will be compensated at the permanent well installation rate.
- BTEX, naphthalene and MtBE laboratory analyses has been increased to include analyses of MW-6, MW-10, MW-11, MW-12, MW-17 and MW-18 associated with KMO #117 (UST Permit # 00707).

1/2010 Ltd
A-2010-0017

Due 5/11/2010

- The comprehensive survey should include the monitoring wells associated with former Pantry #585 and KMO 117 (UST Permit #00707).

ATC Columbia office can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Please note that all applicable South Carolina certification requirements apply to the laboratory services, well installation, and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

A Report of Findings and the invoice are due within 90 days from the date of this letter. An interim well drilling invoice may be submitted for this scope of work. If the invoice and completed report are 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. Please note, if unnecessary dilutions are completed resulting in reporting limits of individual Chemicals of Concern (CoC) in excess of Risk-Based Screening Levels (RBSLs), the Department may deny payment for any non-detect analysis where the reporting limit exceeds the RBSL. The UST Division encourages the use of 'J' values as necessary.

Please note that you and/or your contractor are responsible for obtaining all off-site access agreements and/or encroachment permits necessary for this scope of work.

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 the Division is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the Department for the cost to be paid. 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. Further, SCDHEC reserves the right to question and/or reject costs if deemed unreasonable. The SCDHEC reserves the right to audit project records at any time during the project or after completion of work.

The Department 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 COC concentrations based on laboratory analysis are below Risk Based Screening Levels (RBSLs), 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 regarding this site and scope of work, please reference UST Permit number12458. If you have any questions concerning this correspondence, please contact me at (803) 896-6669, fax me at (803) 896-6245, or e-mail me at shradeaa@dhec.sc.gov.

Sincerely,

Arthur Shrader, Hydrogeologist
Assessment Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc.: Approved Cost Agreement
Monitoring Well Approval (MWA)(copy)

cc: ATC Associates, 400 Northwest Dr., STE Q, Columbia, SC 29203 (with enc.)
Technical File (with enc.)

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

JAN 14 2011

RECEIVED
JAN 18 2011
ENVIRONMENTAL

MR BRENT PUZAK
PANTRY INC
PO BOX 1410
SANFORD NC 27331-1410

Re: Review of Screening Data
81 Food Mart (Former Pantry #585), 1502 East Greenville Street, Anderson, SC
UST Permit #12458; CA #38230: MWA #UMW-23466
Release reported November 10, 1992
Tier II Assessment Plan and Cost Proposal received January 28, 2010
Assessment Report Directive dated February 10, 2010
Screening Data received January 5, 2011
Anderson County

Dear Mr. Puzak:

The Underground Storage Tank (UST) Division of the South Carolina Department of Health and Environmental Control (SCDHEC) recognizes your commitment to continue work at this site utilizing ATC Associates. The UST Division has reviewed the referenced screening data and agrees monitoring wells need to define the horizontal and vertical extent of the plume. An intermediate well with a screen between 15 to 20 feet and deep pit cased well should be installed adjacent to monitoring well KMO-18. Additionally shallow monitoring wells with a 10-foot screen that brackets the water table should be installed in the vicinity of screening points FS-4, FS-7 and approximately 90 feet south of monitoring well KMO MW-12. In addition to monitoring wells associated with the referenced site, please sample the following monitoring wells associated with KMO # 117 (UST Permit #00707) KMO MW-3, KMO MW-5, KMO MW-12, KMO MW-17, and KMO MW-18.

An addendum to cost agreement number 38243 and revision to Monitoring Well Approval number UMW-23466 will be provided for the costs associated with the field screening activities, well installation and groundwater sampling of the additional wells.

On all correspondence regarding this site and scope of work, please reference UST Permit number12458. If you have any questions concerning this correspondence, please contact me at (803) 896-6669, fax me at (803) 896-6245, or e-mail me at shradeaa@dhec.sc.gov.

Sincerely,

Arthur Shrader, Hydrogeologist
Assessment Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc.: Groundwater Field Screening Map with Approximate Well Locations

cc: Ms. McLeod, Enforcement Section (with enc.)
Ms. Fuller Ken Moorhead Oil Company, Inc. PO Box 2587, Anderson, SC 29622 (without enc.)
ATC Associates, 400 Northwest Dr., STE Q, Columbia, SC 29203 (with enc.)
Technical File (with enc.)

APPENDIX B

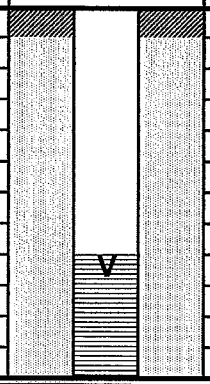
Field Screen Soil Boring Logs

FIELD SCREEN BORING LOG

PROJECT NAME:	Pantry #585	BORING I.D.:	FS-1
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	12/15/2010
PROJECT LOCATION:	1502 East Greenville St. Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Direct Push
		BORING DIAMETER:	1.5"
CLIENT:	The Pantry, Inc.	SAMPLING METHOD/INTERVAL:	
LOGGED BY:	Chad L. Wash	REMARKS:	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					1.0	
					2.0	
					3.0	
					4.0	
					5.0	
					6.0	
					7.0	
					8.0	
	*				9.0	gw sample collected @ approx. 8-10 ft. bgs
					10.0	
					11.0	
					12.0	



DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

- * -Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

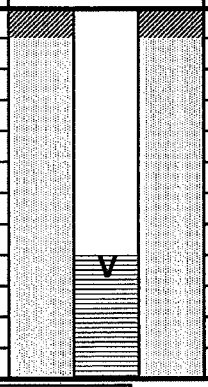
VATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, SC 29203

FIELD SCREEN BORING LOG

PROJECT NAME:	Pantry #585	BORING I.D.:	FS-2
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	12/15/2010
PROJECT LOCATION:	1502 East Greenville St. Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Direct Push
		BORING DIAMETER:	1.5"
CLIENT:	The Pantry, Inc.	SAMPLING METHOD/INTERVAL:	
LOGGED BY:	Chad L. Wash	REMARKS:	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					1.0	
					2.0	
					3.0	
					4.0	
					5.0	
					6.0	
					7.0	
					8.0	
	*				9.0	gw sample collected @ approx. 8-10 ft. bgs
					10.0	
					11.0	
					12.0	



DRILLING METHODS
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- * -Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

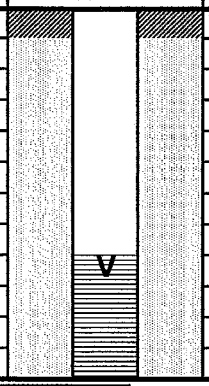
ATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, SC 29203

FIELD SCREEN BORING LOG

PROJECT NAME:	Pantry #585	BORING I.D.:	FS-3
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	12/15/2010
PROJECT LOCATION:	1502 East Greenville St. Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Direct Push
		BORING DIAMETER:	1.5"
CLIENT:	The Pantry, Inc.	SAMPLING METHOD/INTERVAL:	
LOGGED BY:	Chad L. Wash	REMARKS:	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					1.0	
					2.0	
					3.0	
					4.0	
					5.0	
					6.0	
					7.0	
					8.0	
	*				9.0	gw sample collected @ approx. 8-10 ft. bgs
					10.0	
					11.0	
					12.0	



DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

- * -Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

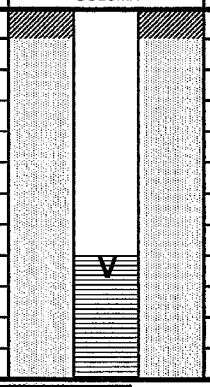
VATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, SC 29203

FIELD SCREEN BORING LOG

PROJECT NAME:	Pantry #585	BORING I.D.:	FS-4
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	12/15/2010
PROJECT LOCATION:	1502 East Greenville St. Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Direct Push
		BORING DIAMETER:	1.5"
CLIENT:	The Pantry, Inc.	SAMPLING METHOD/INTERVAL:	
LOGGED BY:	Chad L. Wash	REMARKS:	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					1.0	
					2.0	
					3.0	
					4.0	
					5.0	
					6.0	
					7.0	
					8.0	
	*				9.0	gw sample collected @ approx. 8-10 ft. bgs
					10.0	
					11.0	
					12.0	



DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
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RC - ROCK CORING
WR - WATER ROTARY

- * -Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

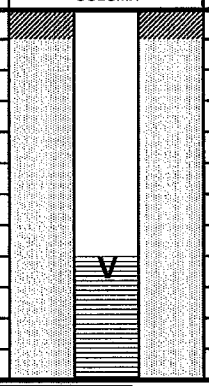
VATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, SC 29203

FIELD SCREEN BORING LOG

PROJECT NAME:	Pantry #585	BORING I.D.:	FS-5
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	12/15/2010
PROJECT LOCATION:	1502 East Greenville St. Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Direct Push
		BORING DIAMETER:	1.5"
CLIENT:	The Pantry, Inc.	SAMPLING METHOD/INTERVAL:	
LOGGED BY:	Chad L. Wash	REMARKS:	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					1.0	
					2.0	
					3.0	
					4.0	
					5.0	
					6.0	
					7.0	
					8.0	
	*				9.0	gw sample collected @ approx. 8-10 ft. bgs
					10.0	
					11.0	
					12.0	



DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
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- * -Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

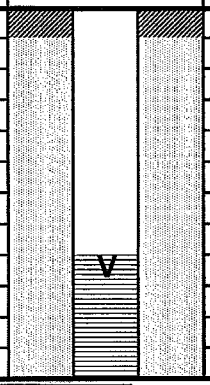
VATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, SC 29203

FIELD SCREEN BORING LOG

PROJECT NAME:	Pantry #585	BORING I.D.:	FS-6
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	12/15/2010
PROJECT LOCATION:	1502 East Greenville St. Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Direct Push
		BORING DIAMETER:	1.5"
CLIENT:	The Pantry, Inc.	SAMPLING METHOD/INTERVAL:	
LOGGED BY:	Chad L. Wash	REMARKS:	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					1.0	
					2.0	
					3.0	
					4.0	
					5.0	
					6.0	
					7.0	
					8.0	
	*				9.0	gw sample collected @ approx. 8-10 ft. bgs
					10.0	
					11.0	
					12.0	



DRILLING METHODS
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- * -Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

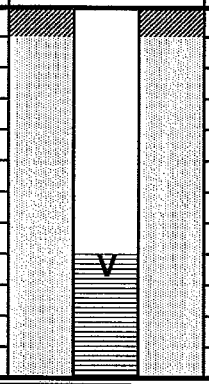
ATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, SC 29203

FIELD SCREEN BORING LOG

PROJECT NAME:	Pantry #585	BORING I.D.:	FS-7
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	12/15/2010
PROJECT LOCATION:	1502 East Greenville St. Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Direct Push
		BORING DIAMETER:	1.5"
CLIENT:	The Pantry, Inc.	SAMPLING METHOD/INTERVAL:	
LOGGED BY:	Chad L. Wash	REMARKS:	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					1.0	
					2.0	
					3.0	
					4.0	
					5.0	
					6.0	
					7.0	
					8.0	
	*				9.0	gw sample collected @ approx. 8-10 ft. bgs
					10.0	
					11.0	
					12.0	



DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
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- * -Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

VATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, SC 29203

FIELD SCREEN BORING LOG

PROJECT NAME:	Pantry #585	BORING I.D.:	FS-8
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	12/15/2010
PROJECT LOCATION:	1502 East Greenville St. Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Direct Push
		BORING DIAMETER:	1.5"
CLIENT:	The Pantry, Inc.	SAMPLING METHOD/INTERVAL:	
LOGGED BY:	Chad L. Wash	REMARKS:	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					1.0	
					2.0	
					3.0	
					4.0	
					5.0	
					6.0	
					7.0	
					8.0	
	*				9.0	gw sample collected @ approx. 8-10 ft. bgs
					10.0	
					11.0	
					12.0	

DRILLING METHODS
AIR - AIR ROTARY
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MD - MUD DRILLING
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WR - WATER ROTARY

- * -Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

VATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, SC 29203

FIELD SCREEN BORING LOG

PROJECT NAME:	Pantry #585	BORING I.D.:	FS-9
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	12/15/2010
PROJECT LOCATION:	1502 East Greenville St. Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Direct Push
		BORING DIAMETER:	1.5"
CLIENT:	The Pantry, Inc.	SAMPLING METHOD/INTERVAL:	
LOGGED BY:	Chad L. Wash	REMARKS:	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					1.0	
					2.0	
					3.0	
					4.0	
					5.0	
					6.0	
					7.0	
					8.0	
	*			V	9.0	gw sample collected @ approx. 8-10 ft. bgs
					10.0	
					11.0	
					12.0	

DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
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WR - WATER ROTARY

- * -Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

VATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, SC 29203

FIELD SCREEN BORING LOG

PROJECT NAME:	Pantry #585	BORING I.D.:	FS-10
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	12/15/2010
PROJECT LOCATION:	1502 East Greenville St. Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Direct Push
		BORING DIAMETER:	1.5"
CLIENT:	The Pantry, Inc.	SAMPLING METHOD/INTERVAL:	
LOGGED BY:	Chad L. Wash	REMARKS:	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					1.0	
					2.0	
					3.0	
					4.0	
					5.0	
					6.0	
					7.0	
					8.0	
	*			V	9.0	gw sample collected @ approx. 8-10 ft. bgs
					10.0	
					11.0	
					12.0	

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- * -Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

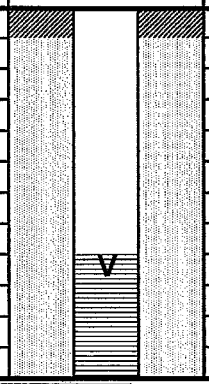
ATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, SC 29203

FIELD SCREEN BORING LOG

PROJECT NAME:	Pantry #585	BORING I.D.:	FS-11
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	12/15/2010
PROJECT LOCATION:	1502 East Greenville St. Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Direct Push
		BORING DIAMETER:	1.5"
CLIENT:	The Pantry, Inc.	SAMPLING METHOD/INTERVAL:	
LOGGED BY:	Chad L. Wash	REMARKS:	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					1.0	
					2.0	
					3.0	
					4.0	
					5.0	
					6.0	
					7.0	
					8.0	
	*				9.0	gw sample collected @ approx. 8-10 ft. bgs
					10.0	
					11.0	
					12.0	



DRILLING METHODS
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SS - SPLIT SPOON
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GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

VATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, SC 29203

DHEC
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: The Pantry, Inc. (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:**
Name: Pantry #585
Street Address: 1502 East Greenville St.
City: Anderson, SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 12 ft. to 0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum

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

5. REMARKS:
Well ID#: FS-1

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

7. PERMIT NUMBER: 12458

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

9. WELL DEPTH (completed) 12 ft. Date Started: 12/15/10 Date Completed: 12/15/10

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

11. SCREEN:
Type: Diam.:
Slot/Gauge: Length:
Set Between: ft. and ft. NOTE: MULTIPLE SCREENS
ft. and ft. USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

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

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 12 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes ☐ No Type: Amount:

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

19. WELL DRILLER: Tommy Bolyard **CERT. NO.:** 1846
Address: (Print) Level: A ☐ B ☑ C ☐ D ☐ (circle one)
17538 Greenhill Rd. Char. NC 28278
Telephone No.: 704.607.7529 Fax No.: 803.548.2233

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

Signed: [signature] Date: 12/16/11
Well Driller

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

D H E C

PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: The Pantry, Inc. (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY:
Name: Pantry #585
Street Address: 1502 East Greenville St.
City: Anderson, SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 12 ft. to 0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: FS-2

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

7. PERMIT NUMBER: 12458

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

9. WELL DEPTH (completed) Date Started: 12/15/10
12 ft. Date Completed: 12/15/10

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

11. SCREEN:
Type: ____ Diam: ____
Slot/Gauge: ____ Length: ____
Set Between: ____ ft. and ____ ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

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

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other ____
Depth: From 12 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type ____
Well Disinfected ☐ Yes ☐ No Type: ____ Amount: ____

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

19. WELL DRILLER: Tommy Bolyard CERT. NO.: 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: 704.607.7529 Fax No.: 803.548.2233

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

Signed: [signature] Date: 12/16/11
Well Driller

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: The Pantry, Inc.
(last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY:
Name: Pantry #585
Street Address: 1502 East Greenville St.
City: Anderson, SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 12 ft. to 0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: FS-3

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

7. PERMIT NUMBER: 12458

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

9. WELL DEPTH (completed) Date Started: 12/15/10
12 ft. Date Completed: 12/15/10

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

11. SCREEN:
Type: ____ Diam.: ____
Slot/Gauge: ____ Length: ____
Set Between: ____ ft. and ____ ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

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

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other ____
Depth: From 12 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type ____
Well Disinfected ☐ Yes ☐ No Type: ____ Amount: ____

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

19. WELL DRILLER: Tommy Bolyard CERT. NO.: 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: 704.607.7529 Fax No.: 803.548.2233

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

Signed: ____ Date: 12/16/11
Well Driller

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

D H E C

PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: The Pantry, Inc. (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY:
Name: Pantry #585
Street Address: 1502 East Greenville St.
City: Anderson, SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 12 ft to 0 ft

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: FS-4

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

7. PERMIT NUMBER: 12458

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

9. WELL DEPTH (completed) Date Started: 12/15/10
12 ft. Date Completed: 12/15/10

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

11. SCREEN:
Type: Diam.:
Slot/Gauge: Length:
Set Between: ft. and ft.
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

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

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 12 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes ☐ No Type: Amount:

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

19. WELL DRILLER: Tommy Bolyard CERT. NO.: 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: 704.607.7529 Fax No.: 803.548.2233

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

Signed: Date: 12/16/11
Well Driller

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: The Pantry, Inc. (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY:
Name: Pantry #585
Street Address: 1502 East Greenville St.
City: Anderson, SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 12 ft. to 0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: FS-5

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

7. PERMIT NUMBER: 12458

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

9. WELL DEPTH (completed) Date Started: 12/15/10
12 ft. Date Completed: 12/15/10

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

11. SCREEN:
Type: Diam.:
Slot/Gauge: Length:
Set Between: ft. and ft.
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

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

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 12 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes ☐ No Type: Amount:

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

19. WELL DRILLER: Tommy Bolyard CERT. NO.: 1846
Address: (Print) Level: A ☐ B ☑ C ☐ D ☐ (circle one)
17538 Greenhill Rd, Char, NC 28278
Telephone No.: 704.607.7529 Fax No.: 803.548.2233

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

Signed: Well Driller Date: 12/16/11

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

DHEC
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: The Pantry, Inc. (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY:
Name: Pantry #585
Street Address: 1502 East Greenville St.
City: Anderson, SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 12 ft. to 0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum

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

5. REMARKS:
Well ID#: FS-6

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

7. PERMIT NUMBER: 12458

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

9. WELL DEPTH (completed) 12 ft. Date Started: 12/15/10 Date Completed: 12/15/10

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

11. SCREEN:
Type: Diam.:
Slot/Gauge: Length:
Set Between: ft. and ft. ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

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

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 12 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes ☐ No Type: Amount:

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

19. WELL DRILLER: Tommy Bolyard CERT. NO.: 1846
Address: (Print) Level: A ☐ B ☑ C ☐ D ☐ (circle one)
17538 Greenhill Rd. Char, NC 28278
Telephone No.: 704.607.7529 Fax No.: 803.548.2233

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

Signed: [signature] Date: 12/16/11
Well Driller

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

DHEC — PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: The Pantry, Inc. (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY:
Name: Pantry #585
Street Address: 1502 East Greenville St.
City: Anderson, SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: [x] Yes [ ] No
Grouted Depth: from 12 ft. to 0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum

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

5. REMARKS:
Well ID#: FS-7

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

7. PERMIT NUMBER: 12458

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

9. WELL DEPTH (completed) 12 ft. Date Started: 12/15/1D Date Completed: 12/15/1D

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

11. SCREEN:
Type: Diam.:
Slot/Gauge: Length:
Set Between: ft. and ft. ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis [ ] Yes (please enclose) [ ] No

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

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

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

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

16. WELL GROUTED? [x] Yes [ ] No
[ ] Neat Cement [ ] Bentonite [x] Bentonite/Cement [ ] Other
Depth: From 12 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected [ ] Yes [ ] No Type: Amount:

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

19. WELL DRILLER: Tommy Bolyard CERT. NO.: 1846
Address: (Print) 17538 Greenhill Rd, Char. NC 28278
Level: A [ ] B [x] C [ ] D [ ] (circle one)
Telephone No.: 704.607.7529 Fax No.: 803.548.2233

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

Signed: Well Driller Date: 12/16/11

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

D H E C

PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: The Pantry, Inc. (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY:
Name: Pantry #585
Street Address: 1502 East Greenville St.
City: Anderson, SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 12 ft. to 0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: FS-8

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

7. PERMIT NUMBER: 12458

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

9. WELL DEPTH (completed) Date Started: 12/15/10
12 ft. Date Completed: 12/15/10

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

11. SCREEN:
Type: ____ Diam.: ____
Slot/Gauge: ____ Length: ____
Set Between: ____ ft. and ____ ft.
____ ft. and ____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

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

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other ____
Depth: From 12 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type ____
Well Disinfected ☐ Yes ☐ No Type: ____ Amount: ____

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

19. WELL DRILLER: Tommy Bolyard CERT. NO.: 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: 704.607.7529 Fax No.: 803.548.2233

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

Signed: ____ Date: 12/16/11
Well Driller

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: The Pantry, Inc. (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY:
Name: Pantry #585
Street Address: 1502 East Greenville St.
City: Anderson, SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 12 ft. to 0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: FS-9

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

7. PERMIT NUMBER: 12458

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

9. WELL DEPTH (completed) Date Started: 12/15/10
12 ft. Date Completed: 12/15/10

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

11. SCREEN:
Type: Diam.:
Slot/Gauge: Length:
Set Between: ft. and ft.
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

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

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 12 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes ☐ No Type: Amount:

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

19. WELL DRILLER: Tommy Bolyard CERT. NO.: 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: 704.607.7529 Fax No.: 803.548.2233

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

Signed: Tommy Bolyard Date: 12/16/11
Well Driller
If D Level Driller, provide supervising driller's name:

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

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

1. WELL OWNER INFORMATION:
Name: The Pantry, Inc. (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY:
Name: Pantry #585
Street Address: 1502 East Greenville St.
City: Anderson, SC Zip:
Latitude: Longitude

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 12 ft. to 0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: FS-10

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

7. PERMIT NUMBER: 12458

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

9. WELL DEPTH (completed) Date Started: 12/15/10
12 ft. Date Completed: 12/15/10

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

11. SCREEN:
Type: Diam:
Slot/Gauge Length:
Set Between ft. and ft.
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

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

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 12 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes ☐ No Type: Amount:

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

19. WELL DRILLER: Tommy Bolyard CERT. NO.: 1846
Address: (Print) 17538 Greenhill Rd, Char, NC 28278
Level: A B C D (circle one) ☐ ☑ ☐ ☐
Telephone No.: 704.607.7529 Fax No.: 803.548.2233

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

Signed: Tommy Bolyard Date: 12/16/11
Well Driller

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

D H E C

PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: The Pantry, Inc. (last) (first)
Address: PO Box 1410
City: Sanford State NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY:
Name: Pantry #585
Street Address: 1502 East Greenville St.
City: Anderson, SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☑ Yes ☐ No
Grouted Depth: from 12 ft to 0 ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: FS-11

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

7. PERMIT NUMBER: 12458

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

9. WELL DEPTH (completed) Date Started: 12/15/10
12 ft. Date Completed: 12/15/10

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

11. SCREEN:
Type: Diam.:
Slot/Gauge: Length:
Set Between: ft and ft.
ft and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☐ No

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

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

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

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

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 12 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes ☐ No Type: Amount:

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

19. WELL DRILLER: Tommy Bolyard CERT. NO.: 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: 704.607.7529 Fax No.: 803.548.2233

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

Signed: Well Driller Date: 12/16/11

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

APPENDIX C

Monitor Well Construction Logs

MONITORING WELL CONSTRUCTION LOG

PROJECT NAME:	Pantry #585	BORING I.D.:	MW-PL-1
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	3/7/2011

PROJECT LOCATION:	1502 East Greenville St. Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	HS Auger
		BORING DIAMETER:	6.5"
CLIENT:	The Pantry, Inc.	SAMPLING METHOD/INTERVAL:	5 Ft.
LOGGED BY:	Chad L. Wash	REMARKS:	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					1.0	
					2.0	
					3.0	
					4.0	
5'			0.3		5.0	Tan/Lt.brown, M-F sandy clay, drymoist
					6.0	
					7.0	
					8.0	
				V	9.0	Water Level at 8.22 feet on April 28, 2011
10'			0.0		10.0	Tan, silty clayey f/m sand, moist/wet
					11.0	
					12.0	
13'			0.1		13.0	Tan/brown, sandy clay, moist/wet - END OF BORING

DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

- * -Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, SC 29203

MONITORING WELL CONSTRUCTION LOG

PROJECT NAME:	Pantry #585	BORING I.D.:	MW-PL-2
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	3/7/2011
PROJECT LOCATION:	1502 East Greenville St. Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	HS Auger
		BORING DIAMETER:	6.5"
CLIENT:	The Pantry, Inc.	SAMPLING METHOD/INTERVAL:	5 Ft.
LOGGED BY:	Chad L. Wash	REMARKS:	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					1.0	
					2.0	
					3.0	
					4.0	
5'			0.0		5.0	Tan/Lt.brown, M-F sandy clay, drymoist
				V	6.0	Water Level at 5.94 feet on April 28, 2011
					7.0	
					8.0	
					9.0	
10'			0.2		10.0	Tan, silty clayey f/m sand, moist/wet
					11.0	
					12.0	
13'			0.0		13.0	Tan/brown, sandy clay, moist/wet - END OF BORING

DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

- * -Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, SC 29203

MONITORING WELL CONSTRUCTION LOG

PROJECT NAME:	Pantry #585	BORING I.D.:	MW-PL-3
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	3/7/2011
PROJECT LOCATION:	1502 East Greenville St. Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	HS Auger
		BORING DIAMETER:	6.5"
CLIENT:	The Pantry, Inc.	SAMPLING METHOD/INTERVAL:	5 Ft.
LOGGED BY:	Chad L. Wash	REMARKS:	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					1.0	
					2.0	
					3.0	
					4.0	
5'			0.0		5.0	Tan/Lt.brown, M-F sandy clay, drymoist
				V	6.0	Water Level at 5.46 feet on April 28, 2011
					7.0	
					8.0	
					9.0	
10'			0.0		10.0	Tan, silty clayey f/m sand, moist/wet
					11.0	
					12.0	
13'			0.1		13.0	Tan/brown, sandy clay, moist/wet - END OF BORING

DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

- * -Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

VATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, SC 29203

MONITORING WELL CONSTRUCTION LOG

PROJECT NAME:	Pantry #585	BORING I.D.:	IW-1
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	3/7/2011
PROJECT LOCATION: 1502 East Greenville St. Anderson, SC		DRILLING CONTR.:	EDPS
		DRILL METHOD:	HS Auger
		BORING DIAMETER:	6.5"
CLIENT:	The Pantry, Inc.	SAMPLING METHOD/INTERVAL:	5 Ft.
LOGGED BY:	Chad L. Wash	REMARKS:	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					1.0	
					2.0	
					3.0	
					4.0	
5'			5.7		5.0	Tan/Lt.brown, M-F sandy clay, drymoist
					6.0	
				V	7.0	Water Level at 6.12 feet on April 28, 2011
					8.0	
					9.0	
10'			28		10.0	Tan, silty clayey f/m sand, moist/wet
					11.0	
					12.0	
					13.0	
					14.0	
15'			33		15.0	Tan/lt. brown, silty clayey f/m sand, moist/wet
					16.0	
					17.0	
					18.0	
					19.0	
20'			39		20.0	Tan/brown, sandy clay, wet/saturated - END OF BORING

DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

- * -Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, SC 29203

MONITORING WELL CONSTRUCTION LOG

PROJECT NAME:	Pantry #585	BORING I.D.:	DMW-3
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	3/7 - 3/8/2011

PROJECT LOCATION:	1502 East Greenville St. Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Air Rotary
		BORING DIAMETER:	6.5"
CLIENT:	The Pantry, Inc.	SAMPLING METHOD/INTERVAL:	5 Ft.
LOGGED BY:	Chad L. Wash	REMARKS:	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					1.0	
					2.0	
					3.0	
					4.0	
5'			44		5.0	Tan/Lt.brown, M-F sandy clay, drymoist
					6.0	
				V	7.0	Water Level at 6.97 feet on April 28, 2011
					8.0	
					9.0	
10'			20		10.0	Tan, silty clayey f/m sand, moist/wet
					11.0	
					12.0	
					13.0	
					14.0	
15'			39		15.0	Tan, silty clayey f/m sand, moist/wet
					16.0	
					17.0	
					18.0	
					19.0	
20'			18		20.0	Tan, silty clayey f/m sand, saturated
					21.0	
					22.0	
					23.0	
					24.0	
25'			18		25.0	Tan, f-m sandy clay, saturated
					26.0	
					27.0	
					28.0	
					29.0	
30'			23		30.0	Tan, f-m sandy clay, saturated

DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

- * -Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

VATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, SC 29203

MONITORING WELL CONSTRUCTION LOG

PROJECT NAME:	Pantry #585	BORING I.D.:	DMW-3 (continued)
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	3/7 - 3/8/2011
PROJECT LOCATION:	1502 East Greenville St. Anderson, SC	DRILLING CONTR.:	EDPS
		DRILL METHOD:	Air Rotary
		BORING DIAMETER:	6.5"
CLIENT:	The Pantry, Inc.	SAMPLING METHOD/INTERVAL:	5 Ft.
LOGGED BY:	Chad L. Wash	REMARKS:	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					31.0	
					32.0	
					33.0	
					34.0	
35'			0.5		35.0	Tan, f-m sandy clay, saturated
					36.0	
					37.0	
					38.0	
					39.0	
40'			7.7		40.0	Tan, f-m sandy clay, saturated
					41.0	
					42.0	
					43.0	
					44.0	
45'			0.0		45.0	Tan, f-m sandy clay, saturated
					46.0	
					47.0	
					48.0	
					49.0	
50'			0.0		50.0	Tan, f-m sandy clay, saturated, **6" casing set**
					51.0	
				V	52.0	
					53.0	
					54.0	
55'			0.0		55.0	Tan, f-m sandy clay, saturated, **END OF BORING**

DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

- * -Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, SC 29203

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: The Pantry, Inc (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:**
Name: Pantry #585
Street Address: 1502 East Greenville St
City: Anderson, SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from NA ft. to NA ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: MW-1PL

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

7. PERMIT NUMBER: #12458

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 3/7/11
13 ft. Date Completed: 3/7/11

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
3 in. to 0 ft. depth
in. to ft. depth
Height: Above ☐ Below ☑
Surface ft.
Weight lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.01/Sch.40 Length: 10'
Set Between: 13 ft. and 3 ft.
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 13 ft. to 2 ft.
Effective size #2,med Uniformity Coefficient Sand

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 2 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes ☑ No Type: Amount:

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

19. WELL DRILLER: Tommy Bolyard **CERT. NO.:** 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: Fax No.: 803.548.2233

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

Signed: Date: 3/10/11
Well Driller

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

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

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

1. WELL OWNER INFORMATION:
Name: The Pantry, Inc (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:**
Name: Pantry #585
Street Address: 1502 East Greenville St
City: Anderson, SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from NA ft. to NA ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: MW-2PL

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

7. PERMIT NUMBER: #12458

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 3/7/11
13 ft. Date Completed: 3/7/11

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
3 in. to 0 ft. depth
in. to ft. depth
Height: Above ☐ Below ☑
Surface ft.
Weight lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.01/Sch.40 Length: 10'
Set Between: 13 ft. and 3 ft.
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 13 ft. to 2 ft.
Effective size #2,med Uniformity Coefficient Sand

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 2 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes ☑ No Type: Amount:

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

19. WELL DRILLER: Tommy Bolyard **CERT. NO.:** 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: Fax No.: 803.548.2233

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

Signed: Well Driller Date: 3/10/11

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

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: The Pantry, Inc (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:**
Name: Pantry #585
Street Address: 1502 East Greenville St
City: Anderson, SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from NA ft. to NA ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: MW-3PL

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

7. PERMIT NUMBER: # 12458

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 3/7/11
13 ft. Date Completed: 3/7/11

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
3 in. to 0 ft. depth
in. to ft. depth
Height: Above ☐ Below ☑
Surface ft.
Weight lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.01/Sch.40 Length: 10'
Set Between: 13 ft. and 3 ft.
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 13 ft. to 2 ft.
Effective size #2.med Uniformity Coefficient Sand

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 2 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes ☑ No Type: Amount:

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

19. WELL DRILLER: Tommy Bolyard **CERT. NO.:** 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: Fax No.: 803.548.2233

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

Signed: Well Driller Date: 3/10/11

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

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: The Pantry, Inc (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: **COUNTY:**
Name: Pantry #585
Street Address: 1502 East Greenville St
City: Anderson, SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from NA ft. to NA ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: IW-1

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

7. PERMIT NUMBER: # 12458

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 3/8/11
20 ft. Date Completed: 3/8/11

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
15 in. to 0 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☑
Surface _____ ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.01/Sch.40 Length: 5'
Set Between: 20 ft. and 15 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 20 ft. to 13 ft.
Effective size #2,med Uniformity Coefficient Sand

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other _____
Depth: From 13 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☑ No Type: _____ Amount: _____

18. PUMP: Date Installed: _____ Not Installed ☑
Mfr. Name: _____ Model No.: _____
H.P. _____ Volts _____ Length of drop pipe ____ ft. Capacity ____ gpm
TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

19. WELL DRILLER: Tommy Bolyard **CERT. NO.:** 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: Fax No.: 803.548.2233

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

Signed: _____ Date: 3/10/11
Well Driller

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

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

1. WELL OWNER INFORMATION:
Name: The Pantry, Inc (last) (first)
Address: PO Box 1410
City: Sanford State: NC Zip:
Telephone: Work: Home:

2. LOCATION OF WELL: COUNTY:
Name: Pantry #585
Street Address: 1502 East Greenville St
City: Anderson, SC Zip:
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from NA ft. to NA ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
Well ID#: DMW-4

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

7. PERMIT NUMBER: #12458

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 3/7/11
55 ft. Date Completed: 3/8/11

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2"
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
50'(2") in. to 0 ft. depth
45'(6") in. to 0 ft. depth
Height: Above ☐ Below ☑
Surface ft.
Weight lb./ft.
Drive Shoe? ☐ Yes ☑ No

11. SCREEN:
Type: PVC Diam.: 2"
Slot/Gauge: 0.01/Sch.40 Length: 5'
Set Between: 55 ft. and 50 ft.
ft. and ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

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

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 55 ft. to 48 ft.
Effective size #2,med Uniformity Coefficient Sand

16. WELL GROUTED? ☑ Yes ☐ No
☐ Neat Cement ☐ Bentonite ☑ Bentonite/Cement ☐ Other
Depth: From 48 ft. to 0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type
Well Disinfected ☐ Yes ☑ No Type: Amount:

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

19. WELL DRILLER: Tommy Bolyard CERT. NO.: 1846
Address: (Print) Level: A B C D (circle one) ☐ ☑ ☐ ☐
17538 Greenhill Rd, Char, NC 28278
Telephone No.: Fax No.: 803.548.2233

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

Signed: Date: 3/10/11
Well Driller

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

APPENDIX D

Groundwater Sampling Field Measurements

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 12458

Well # MW-PL-1

Method of Well Purging: Bailer X Pump type _____
Method of Sample Collection: Bailer X Pump type _____

Quality Assurance

pH Meter _____ Conductivity Meter _____
serial no. _____ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or Ø Feet
Conversion factor (C): 3.1423 * $(D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 13 ft. Below Ground Surface
Depth to Groundwater (DTG) _ft. Below Ground Surface
Screen interval 3 ft. to 13 ft.
Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) _____ X ___ = 4.66 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)							0800	
pH (s.u.)		7.5	7.3	7.5				
Specific Cond. (mS/cm)		114	122	119				
Water Temp (°C)		19.4	18.9	19.0				
Turbidity *		1	2	1				
OVA Reading		—	—	—				
Salinity		—	—	—				
Dissolved Oxygen		20.0	20.2	26.8				

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks _____

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 12458

Well # MW-PL-2

Method of Well Purging: Bailer Y Pump type _____
Method of Sample Collection: Bailer Y Pump type _____

Quality Assurance

pH Meter _____ Conductivity Meter _____
serial no. _____ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or Ø Feet
Conversion factor (C): 3.1423 * $(D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 13 ft. Below Ground Surface
Depth to Groundwater 5.94 (DTG) _ft. Below Ground Surface
Screen interval 3 ft. to 13 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) _____ X ___ = 4.60 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)							0830	
pH (s.u.)		8.4	8.4	8.4				
Specific Cond. (mS/cm)		0.2	87	86				
Water Temp (°C)		20.3	20.9	20.9				
Turbidity*		1	1	1				
OVA Reading		—	—	—				
Salinity		—	—	—				
Dissolved Oxygen		12.4	12.0	12.1				

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks _____

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 12458

Well # MW-PL-3

Method of Well Purging: Bailer Y Pump type _____
Method of Sample Collection: Bailer Y Pump type _____

Quality Assurance

pH Meter _____ Conductivity Meter _____
serial no. _____ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or Ø Feet
Conversion factor (C): 3.1423 * $(D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C = 0.652
Total Well Depth (TWD) 13 ft. Below Ground Surface
Depth to Groundwater 5.76 (DTG) ft. Below Ground Surface
Screen interval 3 ft. to 13 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) _____ X ___ = 4.60 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)							0900	
pH (s.u.)		5.9	6.2	6.0				
Specific Cond. (mS/cm)		68	92	90				
Water Temp (°C)		20.4	19.9	20.0				
Turbidity *		1	1	1				
OVA Reading		—	—	—				
Salinity		—	—	—				
Dissolved Oxygen		13.0	13.3	12.7				

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks _____

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 12458

Well # IW-1

Method of Well Purging: Bailer Y Pump type _____
Method of Sample Collection: Bailer X Pump type _____

Quality Assurance

pH Meter _____ Conductivity Meter _____
serial no. _____ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or Ø Feet
Conversion factor (C): 3.1423 * $(D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 20 ft. Below Ground Surface
Depth to Groundwater 6.12 (DTG) _ft. Below Ground Surface
Screen interval 15 ft. to 20 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) _____ X ___ = 8.0 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)							1000	
pH (s.u.)		8.4	8.0	8.1				
Specific Cond. (mS/cm)		111	103	110				
Water Temp (°C)		20.0	19.7	19.7				
Turbidity *		2	1	2				
OVA Reading		—	—	—				
Salinity		—	—	—				
Dissolved Oxygen		22.0	22.0	21.0				

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks _____

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 12458

Well # DMW-4

Method of Well Purging: Bailer ✓ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter _____ Conductivity Meter _____
serial no. _____ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or Ø Feet
Conversion factor (C): 3.1423 * $(D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 55 ft. Below Ground Surface
Depth to Groundwater ~~(DGW)~~ (DTG) _ ft. Below Ground Surface
Screen interval 50 ft. to 55 ft.
Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) _____ X ___ = 12.0 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)							1030	
pH (s.u.)		5.5	5.2	5.0				
Specific Cond. (mS/cm)		93	73	70				
Water Temp (°C)		18.8	19.1	19.0				
Turbidity *		1	2	1				
OVA Reading		—	—	—				
Salinity		—	—	—				
Dissolved Oxygen		37	33	33				

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks _____

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 12458

Well # KMO-3

Method of Well Purging: Bailer ~~AM~~ Pump type _____
Method of Sample Collection: Bailer Y Pump type _____

Quality Assurance

pH Meter _____ Conductivity Meter _____
serial no. _____ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or Ø Feet
Conversion factor (C): 3.1423 * $(D/2)^2$
for a 2 inch well C = 0.163, for a 4 inch well C =0.652
Total Well Depth (TWD) 14 ft. Below Ground Surface
Depth to Groundwater 7.28 (DTG) _ft. Below Ground Surface
Screen interval 4 ft. to 14 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) _____ X ___ = 6.0 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)							1100	
pH (s.u.)		8.2	8.0	8.0				
Specific Cond. (mS/cm)		1.88	1.80	1.82				
Water Temp (°C)		21.0	21.1	21.0				
Turbidity *		1	1	1				
OVA Reading		—	—	—				
Salinity		—	—	—				
Dissolved Oxygen		10.0	10.4	10.8				

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks SLIGHT PET. ODORS —

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 12458

Well # KMO-5

Method of Well Purging: Bailer _____ Pump type _____
Method of Sample Collection: Bailer X Pump type _____

Quality Assurance

pH Meter _____ Conductivity Meter _____
serial no. _____ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or Ø Feet
Conversion factor (C): 3.1423 * $(D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C = 0.652
Total Well Depth (TWD) 14 ft. Below Ground Surface
Depth to Groundwater (DTG) 7.52 ft. Below Ground Surface
Screen interval 4 ft. to 14 ft.
Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) _____ X ___ = 6.40 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)							1200	
pH (s.u.)		10.9						
Specific Cond. (mS/cm)		77						
Water Temp (°C)		20.8	~~[illegible]~~	~~[illegible]~~				
Turbidity*		1						
OVA Reading		—						
Salinity		—						
Dissolved Oxygen		18.3						

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks _____

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 19458

Well # Kmo-6

Method of Well Purging: Bailer_____ Pump type _____
Method of Sample Collection: Bailer X Pump type _____

Quality Assurance

pH Meter _____ Conductivity Meter_____
serial no. _____ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or Ø Feet
Conversion factor (C): 3.1423 * $(D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 15 ft. Below Ground Surface
Depth to Groundwater 7.15 (DTG) ft. Below Ground Surface
Screen interval 5 ft. to 15 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) _____ X ___ = 6.52 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)							1410	
pH (s.u.)		6.06						
Specific Cond. (mS/cm)		319						
Water Temp (°C)		20.5						
Turbidity *		1						
OVA Reading		—						
Salinity		—						
Dissolved Oxygen		22.0						

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks _____

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 12458

Well # Kino-10

Method of Well Purging: Bailer _____ Pump type _____
Method of Sample Collection: Bailer X Pump type _____

Quality Assurance

pH Meter _____ Conductivity Meter _____
serial no. _____ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or Ø Feet
Conversion factor (C): 3.1423 * $(D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C = 0.652
Total Well Depth (TWD) 15 ft. Below Ground Surface
Depth to Groundwater 5.85 (DTG) ft. Below Ground Surface
Screen interval 5 ft. to 15 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) _____ X ___ = 6.50 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)							1430	
pH (s.u.)		6.8						
Specific Cond. (mS/cm)		199						
Water Temp (°C)		20.9						
Turbidity *		1						
OVA Reading		—						
Salinity		—						
Dissolved Oxygen		13.3						

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks _____

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 12450

Well # Kmo-11

Method of Well Purging: Bailer _____ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter _____ Conductivity Meter _____
serial no. _____ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or Ø Feet
Conversion factor (C): 3.1423 * $(D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 12 ft. Below Ground Surface
Depth to Groundwater 6.02 (DTG) _ft. Below Ground Surface
Screen interval 2 ft. to 12 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) _____ X ___ = 6.00 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)							1500	
pH (s.u.)		8.1						
Specific Cond. (mS/cm)		225						
Water Temp (°C)		21.2						
Turbidity *		1						
OVA Reading		—						
Salinity		—						
Dissolved Oxygen		18.7						

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks _____

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 17458

Well # KMO-12

Method of Well Purging: Bailer _____ Pump type _____
Method of Sample Collection: Bailer ✓ Pump type _____

Quality Assurance

pH Meter _____ Conductivity Meter _____
serial no. _____ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or Ø Feet
Conversion factor (C): $3.1423 * (D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 15 ft. Below Ground Surface
Depth to Groundwater 5.93 (DTG) _ft. Below Ground Surface
Screen interval 5 ft. to 15 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) _____ X ___ = 9.60 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)							1230	
pH (s.u.)		5.4						
Specific Cond. (mS/cm)		240						
Water Temp (°C)		23.3						
Turbidity *		1						
OVA Reading		—						
Salinity		—						
Dissolved Oxygen		33.0						

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks _____

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 12458

Well # KMO-17

Method of Well Purging: Bailer _____ Pump type _____
Method of Sample Collection: Bailer Y Pump type _____

Quality Assurance

pH Meter _____ Conductivity Meter _____
serial no. _____ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or Ø Feet
Conversion factor (C): 3.1423 * $(D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 15 ft. Below Ground Surface
Depth to Groundwater 8.5 (DTG) _ft. Below Ground Surface
Screen interval 5 ft. to 15 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) _____ X ___ = 6.50 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)							1245	
pH (s.u.)		7.4						
Specific Cond. (mS/cm)		10.0						
Water Temp (°C)		22.6						
Turbidity *		1						
OVA Reading		—						
Salinity		—						
Dissolved Oxygen		12.2						

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks SLIGHT PET. ODOR —

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management, Underground Storage Tank Program

Purged Monitoring Well Data Sheet

UST Permit # 12458

Well # KMO-18

Method of Well Purging: Bailer _____ Pump type _____
Method of Sample Collection: Bailer X Pump type _____

Quality Assurance

pH Meter _____ Conductivity Meter _____
serial no. _____ serial no. _____
pH = 4.0 _____ Standard _____ Internal
pH = 7.0 _____ Standard _____ Internal
pH = 10.0 _____ Standard _____ Internal

Well Diameter (D) 2 Inches or Ø Feet
Conversion factor (C): 3.1423 * $(D/2)^2$
for a 2 inch well C = 0.163 for a 4 inch well C =0.652
Total Well Depth (TWD) 15 ft. Below Ground Surface
Depth to Groundwater 5.71 (DTG) ft. Below Ground Surface
Screen interval 5 ft. to 15 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg Volume (LWC*C) _____ X ___ = 8.56 gal.
3 Csg Volume = 3 X _____ = _____ gals. (Std. Purge Vol.)
Csg is Casing Volume
Total Volume of Water Purged before Sampling _____ gal.
Well Yield Low _____ Medium _____ High _____

	INITIAL	1ST VOL.	2ND VOL.	3RD VOL.	4TH VOL.	5TH VOL.	POST	SAMPLING
Volume Purged (gal)								
Time (military)							1330	
pH (s.u.)		9.6						
Specific Cond. (mS/cm)		144						
Water Temp (°C)		23.0						
Turbidity *		1						
OVA Reading		—						
Salinity		—						
Dissolved Oxygen		7.7						

Turbidity: (1) Clear, (2) Slight, (3) Moderate, (4) High

Remarks _____

APPENDIX E

Groundwater Analytical Results

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Case Narrative for:

ATC ASSOCIATES, INC.

Certificate of Analysis Number:

10120821

Report To:		Project Name:	014.25384.0585
ATC ASSOCIATES, INC.		Site:	PANTRY #585
CHAD WASH		Site Address:	
400 NORTHEAST DRIVE			
UNIT Q		PO Number:	
COLUMBIA		State:	South Carolina
SC		State Cert. No.:	73004001
29203-		Date Reported:	
ph: (803) 735-0003	fax:		

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data for those samples spiked by the laboratory and may be applicable to other samples of similar matrix from the site. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process. If insufficient sample is supplied for MS/MSD, a Laboratory Control Sample (LCS) and a Laboratory Control Sample Duplicate (LCSD) are reported with the analytical batch and serve as the batch quality control (QC).

Results are reported on a Wet Weight Basis unless otherwise noted in the sample unit field as -dry.

The collection of samples using encores, terracores or other field collection devices may result in inconsistent initial sample weights for the parent sample and MS/MSD samples.

The MS/MSD recovery and precision data are calculated based on detected spike concentrations that are adjusted for initial sample weights. As a result of the variability between initial sample weights, the calculated RPD may have increased bias.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced e xcept in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

12/22/2010

Alberto E. Granados
Project Manager

Date

Test results meet all requirements of NELAC, unless specified in the narrative.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

ATC ASSOCIATES, INC.

Certificate of Analysis Number:

10120821

Report To: ATC ASSOCIATES, INC.
CHAD WASH
400 NORTHEAST DRIVE
UNIT Q
COLUMBIA
SC
29203-
ph: (803) 735-0003 fax: (803) 735-0443

Fax To:

Project Name: 014.25384.0585
Site: PANTRY #585
Site Address:

PO Number:
State: South Carolina
State Cert. No.: 73004001
Date Reported:

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
FS-1	10120821-01	Water	12/15/2010 10:20	12/18/2010 10:40:00 AM	307963	☐
FS-2	10120821-02	Water	12/15/2010 11:00	12/18/2010 10:40:00 AM	307963	☐
FS-3	10120821-03	Water	12/15/2010 11:30	12/18/2010 10:40:00 AM	307963	☐
FS-4	10120821-04	Water	12/15/2010 12:05	12/18/2010 10:40:00 AM	307963	☐
FS-5	10120821-05	Water	12/15/2010 12:30	12/18/2010 10:40:00 AM	307963	☐
FS-6	10120821-06	Water	12/15/2010 13:00	12/18/2010 10:40:00 AM	307963	☐
FS-7	10120821-07	Water	12/15/2010 13:06	12/18/2010 10:40:00 AM	307963	☐
FS-8	10120821-08	Water	12/15/2010 13:30	12/18/2010 10:40:00 AM	307963	☐
FS-9	10120821-09	Water	12/15/2010 14:00	12/18/2010 10:40:00 AM	307963	☐
FS-10	10120821-10	Water	12/15/2010 14:15	12/18/2010 10:40:00 AM	307963	☐
FS-11	10120821-11	Water	12/15/2010 14:35	12/18/2010 10:40:00 AM	307963	☐

12/22/2010

Alberto E. Granados
Project Manager

Date

Ron Benjamin
Laboratory Director

Tristan Davis
Quality Assurance Officer

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: FS-1 **Collected:** 12/15/2010 10:20 **SPL Sample ID:** 10120821-01

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND		1	1	12/21/10 7:10	DN	3869624
Ethylbenzene	ND		1	1	12/21/10 7:10	DN	3869624
Methyl tert-butyl ether	ND		1	1	12/21/10 7:10	DN	3869624
Naphthalene	ND		5	1	12/21/10 7:10	DN	3869624
Toluene	ND		1	1	12/21/10 7:10	DN	3869624
m,p-Xylene	ND		2	1	12/21/10 7:10	DN	3869624
o-Xylene	ND		2	1	12/21/10 7:10	DN	3869624
Xylenes,Total	ND		2	1	12/21/10 7:10	DN	3869624
Surr: 1,2-Dichloroethane-d4	100	%	79-121	1	12/21/10 7:10	DN	3869624
Surr: 4-Bromofluorobenzene	104	%	88-108	1	12/21/10 7:10	DN	3869624
Surr: Toluene-d8	99.9	%	89-108	1	12/21/10 7:10	DN	3869624

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: FS-2 **Collected:** 12/15/2010 11:00 **SPL Sample ID:** 10120821-02

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND		1	1	12/21/10 7:40	DN	3869625
Ethylbenzene	ND		1	1	12/21/10 7:40	DN	3869625
Methyl tert-butyl ether	ND		1	1	12/21/10 7:40	DN	3869625
Naphthalene	ND		5	1	12/21/10 7:40	DN	3869625
Toluene	ND		1	1	12/21/10 7:40	DN	3869625
m,p-Xylene	ND		2	1	12/21/10 7:40	DN	3869625
o-Xylene	ND		2	1	12/21/10 7:40	DN	3869625
Xylenes,Total	ND		2	1	12/21/10 7:40	DN	3869625
Surr: 1,2-Dichloroethane-d4	101	%	79-121	1	12/21/10 7:40	DN	3869625
Surr: 4-Bromofluorobenzene	102	%	88-108	1	12/21/10 7:40	DN	3869625
Surr: Toluene-d8	99.6	%	89-108	1	12/21/10 7:40	DN	3869625

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: FS-3 **Collected:** 12/15/2010 11:30 **SPL Sample ID:** 10120821-03

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND		1	1	12/21/10 8:10	DN	3869626
Ethylbenzene	ND		1	1	12/21/10 8:10	DN	3869626
Methyl tert-butyl ether	ND		1	1	12/21/10 8:10	DN	3869626
Naphthalene	ND		5	1	12/21/10 8:10	DN	3869626
Toluene	ND		1	1	12/21/10 8:10	DN	3869626
m,p-Xylene	ND		2	1	12/21/10 8:10	DN	3869626
o-Xylene	ND		2	1	12/21/10 8:10	DN	3869626
Xylenes,Total	ND		2	1	12/21/10 8:10	DN	3869626
Surr: 1,2-Dichloroethane-d4	103	%	79-121	1	12/21/10 8:10	DN	3869626
Surr: 4-Bromofluorobenzene	102	%	88-108	1	12/21/10 8:10	DN	3869626
Surr: Toluene-d8	98.4	%	89-108	1	12/21/10 8:10	DN	3869626

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: FS-4 **Collected:** 12/15/2010 12:05 **SPL Sample ID:** 10120821-04

Site: PANTRY #585

Analyses/Method	Result	QUAL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN				**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND			1	1	12/21/10 8:40	DN	3869627
Ethylbenzene	ND			1	1	12/21/10 8:40	DN	3869627
Methyl tert-butyl ether	ND			1	1	12/21/10 8:40	DN	3869627
Naphthalene	ND			5	1	12/21/10 8:40	DN	3869627
Toluene	ND			1	1	12/21/10 8:40	DN	3869627
m,p-Xylene	ND			2	1	12/21/10 8:40	DN	3869627
o-Xylene	ND			2	1	12/21/10 8:40	DN	3869627
Xylenes,Total	ND			2	1	12/21/10 8:40	DN	3869627
Surr: 1,2-Dichloroethane-d4	103		%	79-121	1	12/21/10 8:40	DN	3869627
Surr: 4-Bromofluorobenzene	106		%	88-108	1	12/21/10 8:40	DN	3869627
Surr: Toluene-d8	97.3		%	89-108	1	12/21/10 8:40	DN	3869627

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: FS-5 **Collected:** 12/15/2010 12:30 **SPL Sample ID:** 10120821-05

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND		1	1	12/21/10 5:22	DN	3869526
Ethylbenzene	ND		1	1	12/21/10 5:22	DN	3869526
Methyl tert-butyl ether	ND		1	1	12/21/10 5:22	DN	3869526
Naphthalene	ND		5	1	12/21/10 5:22	DN	3869526
Toluene	ND		1	1	12/21/10 5:22	DN	3869526
m,p-Xylene	ND		2	1	12/21/10 5:22	DN	3869526
o-Xylene	ND		2	1	12/21/10 5:22	DN	3869526
Xylenes,Total	ND		2	1	12/21/10 5:22	DN	3869526
Surr: 1,2-Dichloroethane-d4	94.6	%	79-121	1	12/21/10 5:22	DN	3869526
Surr: 4-Bromofluorobenzene	99.1	%	88-108	1	12/21/10 5:22	DN	3869526
Surr: Toluene-d8	104	%	89-108	1	12/21/10 5:22	DN	3869526

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: FS-6 **Collected:** 12/15/2010 13:00 **SPL Sample ID:** 10120821-06

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND		1	1	12/21/10 5:53	DN	3869527
Ethylbenzene	ND		1	1	12/21/10 5:53	DN	3869527
Methyl tert-butyl ether	ND		1	1	12/21/10 5:53	DN	3869527
Naphthalene	ND		5	1	12/21/10 5:53	DN	3869527
Toluene	ND		1	1	12/21/10 5:53	DN	3869527
m,p-Xylene	ND		2	1	12/21/10 5:53	DN	3869527
o-Xylene	ND		2	1	12/21/10 5:53	DN	3869527
Xylenes,Total	ND		2	1	12/21/10 5:53	DN	3869527
Surr: 1,2-Dichloroethane-d4	93.7	%	79-121	1	12/21/10 5:53	DN	3869527
Surr: 4-Bromofluorobenzene	97.5	%	88-108	1	12/21/10 5:53	DN	3869527
Surr: Toluene-d8	103	%	89-108	1	12/21/10 5:53	DN	3869527

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
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SCOTT, LA 70583
(337) 237-4775

Client Sample ID: FS-7 **Collected:** 12/15/2010 13:06 **SPL Sample ID:** 10120821-07

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND		1	1	12/21/10 6:23	DN	3869528
Ethylbenzene	ND		1	1	12/21/10 6:23	DN	3869528
Methyl tert-butyl ether	110		1	1	12/21/10 6:23	DN	3869528
Naphthalene	ND		5	1	12/21/10 6:23	DN	3869528
Toluene	ND		1	1	12/21/10 6:23	DN	3869528
m,p-Xylene	ND		2	1	12/21/10 6:23	DN	3869528
o-Xylene	ND		2	1	12/21/10 6:23	DN	3869528
Xylenes,Total	ND		2	1	12/21/10 6:23	DN	3869528
Surr: 1,2-Dichloroethane-d4	94.6	%	79-121	1	12/21/10 6:23	DN	3869528
Surr: 4-Bromofluorobenzene	100	%	88-108	1	12/21/10 6:23	DN	3869528
Surr: Toluene-d8	101	%	89-108	1	12/21/10 6:23	DN	3869528

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
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Client Sample ID: FS-8 **Collected:** 12/15/2010 13:30 **SPL Sample ID:** 10120821-08

Site: PANTRY #585

Analyses/Method	Result	QUAL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN				**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND			1	1	12/21/10 6:53	DN	3869529
Ethylbenzene	ND			1	1	12/21/10 6:53	DN	3869529
Methyl tert-butyl ether	49			1	1	12/21/10 6:53	DN	3869529
Naphthalene	ND			5	1	12/21/10 6:53	DN	3869529
Toluene	ND			1	1	12/21/10 6:53	DN	3869529
m,p-Xylene	ND			2	1	12/21/10 6:53	DN	3869529
o-Xylene	ND			2	1	12/21/10 6:53	DN	3869529
Xylenes,Total	ND			2	1	12/21/10 6:53	DN	3869529
Surr: 1,2-Dichloroethane-d4	93.2		%	79-121	1	12/21/10 6:53	DN	3869529
Surr: 4-Bromofluorobenzene	97.5		%	88-108	1	12/21/10 6:53	DN	3869529
Surr: Toluene-d8	102		%	89-108	1	12/21/10 6:53	DN	3869529

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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SCOTT, LA 70583
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Client Sample ID: FS-9 **Collected:** 12/15/2010 14:00 **SPL Sample ID:** 10120821-09

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	2.8		1	1	12/21/10 7:22	DN	3869530
Ethylbenzene	ND		1	1	12/21/10 7:22	DN	3869530
Methyl tert-butyl ether	270		5	5	12/22/10 8:02	CDP	3871657
Naphthalene	ND		5	1	12/21/10 7:22	DN	3869530
Toluene	ND		1	1	12/21/10 7:22	DN	3869530
m,p-Xylene	ND		2	1	12/21/10 7:22	DN	3869530
o-Xylene	ND		2	1	12/21/10 7:22	DN	3869530
Xylenes,Total	ND		2	1	12/21/10 7:22	DN	3869530
Surr: 1,2-Dichloroethane-d4	111	%	79-121	5	12/22/10 8:02	CDP	3871657
Surr: 1,2-Dichloroethane-d4	93.7	%	79-121	1	12/21/10 7:22	DN	3869530
Surr: 4-Bromofluorobenzene	98.2	%	88-108	5	12/22/10 8:02	CDP	3871657
Surr: 4-Bromofluorobenzene	100	%	88-108	1	12/21/10 7:22	DN	3869530
Surr: Toluene-d8	97.4	%	89-108	5	12/22/10 8:02	CDP	3871657
Surr: Toluene-d8	103	%	89-108	1	12/21/10 7:22	DN	3869530

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
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SCOTT, LA 70583
(337) 237-4775

Client Sample ID: FS-10 **Collected:** 12/15/2010 14:15 **SPL Sample ID:** 10120821-10

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	1800		10	10	12/22/10 8:30	CDP	3871658
Ethylbenzene	300		10	10	12/22/10 8:30	CDP	3871658
Methyl tert-butyl ether	ND		10	10	12/22/10 8:30	CDP	3871658
Naphthalene	250		50	10	12/22/10 8:30	CDP	3871658
Toluene	130		10	10	12/22/10 8:30	CDP	3871658
m,p-Xylene	88		20	10	12/22/10 8:30	CDP	3871658
o-Xylene	85		20	10	12/22/10 8:30	CDP	3871658
Xylenes,Total	173		20	10	12/22/10 8:30	CDP	3871658
Surr: 1,2-Dichloroethane-d4	109	%	79-121	10	12/22/10 8:30	CDP	3871658
Surr: 4-Bromofluorobenzene	99.1	%	88-108	10	12/22/10 8:30	CDP	3871658
Surr: Toluene-d8	96.8	%	89-108	10	12/22/10 8:30	CDP	3871658

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: FS-11 **Collected:** 12/15/2010 14:35 **SPL Sample ID:** 10120821-11

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN			**MCL**	**SW8260B**	**Units: ug/L**		
Benzene	ND		1	1	12/21/10 8:23	DN	3869532
Ethylbenzene	ND		1	1	12/21/10 8:23	DN	3869532
Methyl tert-butyl ether	ND		1	1	12/21/10 8:23	DN	3869532
Naphthalene	ND		5	1	12/21/10 8:23	DN	3869532
Toluene	ND		1	1	12/21/10 8:23	DN	3869532
m,p-Xylene	ND		2	1	12/21/10 8:23	DN	3869532
o-Xylene	ND		2	1	12/21/10 8:23	DN	3869532
Xylenes,Total	ND		2	1	12/21/10 8:23	DN	3869532
Surr: 1,2-Dichloroethane-d4	96.1	%	79-121	1	12/21/10 8:23	DN	3869532
Surr: 4-Bromofluorobenzene	98.7	%	88-108	1	12/21/10 8:23	DN	3869532
Surr: Toluene-d8	102	%	89-108	1	12/21/10 8:23	DN	3869532

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

Quality Control Documentation

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

014.25384.0585

Analysis: Volatile Organics:Method 8260B+MTBE+Naphthalene
Method: SW8260B
WorkOrder: 10120821
Lab Batch ID: R251564

Method Blank

RunID: QA_101220B-3869515 Units: ug/L
Analysis Date: 12/20/2010 23:53 Analyst: DN

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	1.0
Naphthalene	ND	5.0
Toluene	ND	1.0
m,p-Xylene	ND	2.0
o-Xylene	ND	2.0
Xylenes,Total	ND	2.0
Surr: 1,2-Dichloroethane-d4	94.6	75-120
Surr: 4-Bromofluorobenzene	101.7	89-109
Surr: Toluene-d8	103.3	89-110

Samples In Analytical Batch:

Lab Sample ID	Client Sample ID
10120821-05A	FS-5
10120821-06A	FS-6
10120821-07A	FS-7
10120821-08A	FS-8
10120821-09A	FS-9
10120821-11A	FS-11

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: QA_101220B-3869512 Units: ug/L
Analysis Date: 12/20/2010 22:23 Analyst: DN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	50.0	48.4	96.8	50.0	47.1	94.3	2.6	23	88	117
Ethylbenzene	50.0	51.8	104	50.0	50.8	102	2.1	16	90	114
Methyl tert-butyl ether	50.0	49.7	99.5	50.0	49.2	98.4	1.1	23	80	124
Naphthalene	50.0	48.1	96.1	50.0	47.6	95.3	0.9	27	68	131
Toluene	50.0	49.9	99.8	50.0	50.2	100	0.5	21	84	118
m,p-Xylene	100	100	100	100	98.8	98.8	1.4	20	86	114
o-Xylene	50.0	51.8	104	50.0	52.3	105	0.9	17	87	117
Xylenes,Total	150.0	151.8	101.4	150.0	151.1	100.7	0.6	20	86	117
Surr: 1,2-Dichloroethane-d4	50.0	46.6	93.1	50.0	50.0	100	7.2	30	75	120
Surr: 4-Bromofluorobenzene	50.0	50.4	101	50.0	50.9	102	1.0	30	89	109
Surr: Toluene-d8	50.0	52.6	105	50.0	51.5	103	2.1	30	89	110

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

014.25384.0585

Analysis: Volatile Organics:Method 8260B+MTBE+Naphthalene
Method: SW8260B
WorkOrder: 10120821
Lab Batch ID: R251568

Method Blank

RunID: QB_101220B-3869610 Units: ug/L
Analysis Date: 12/21/2010 0:10 Analyst: DN

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	1.0
Naphthalene	ND	5.0
Toluene	ND	1.0
m,p-Xylene	ND	2.0
o-Xylene	ND	2.0
Xylenes,Total	ND	2.0
Surr: 1,2-Dichloroethane-d4	100.4	75-120
Surr: 4-Bromofluorobenzene	103.6	89-109
Surr: Toluene-d8	99.9	89-110

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
10120821-01A	FS-1
10120821-02A	FS-2
10120821-03A	FS-3
10120821-04A	FS-4

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: QB_101220B-3869607 Units: ug/L
Analysis Date: 12/20/2010 22:41 Analyst: DN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	50.0	45.5	91.1	50.0	48.6	97.1	6.4	23	88	117
Ethylbenzene	50.0	47.9	95.9	50.0	52.2	104	8.5	16	90	114
Methyl tert-butyl ether	50.0	50.1	100	50.0	55.0	110	9.2	23	80	124
Naphthalene	50.0	48.5	97.0	50.0	52.1	104	7.1	27	68	131
Toluene	50.0	48.5	97.0	50.0	52.2	104	7.4	21	84	118
m,p-Xylene	100	94.7	94.7	100	103	103	8.3	20	86	114
o-Xylene	50.0	48.3	96.6	50.0	52.3	105	8.0	17	87	117
Xylenes,Total	150	143	95.3	150	155	104	8.2	20	86	117
Surr: 1,2-Dichloroethane-d4	50.0	53.5	107	50.0	53.8	108	0.6	30	75	120
Surr: 4-Bromofluorobenzene	50.0	50.7	101	50.0	51.0	102	0.7	30	89	109
Surr: Toluene-d8	50.0	50.4	101	50.0	50.5	101	0.1	30	89	110

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

014.25384.0585

Analysis: Volatile Organics:Method 8260B+MTBE+Naphthalene
Method: SW8260B

WorkOrder: 10120821
Lab Batch ID: R251662

Method Blank

RunID: HA_101221B-3871440 Units: ug/L
Analysis Date: 12/22/2010 0:54 Analyst: CDP

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
10120821-09A	FS-9
10120821-10A	FS-10

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	1.0
Naphthalene	ND	5.0
Toluene	ND	1.0
m,p-Xylene	ND	2.0
o-Xylene	ND	2.0
Xylenes,Total	ND	2.0
Surr: 1,2-Dichloroethane-d4	105.7	75-120
Surr: 4-Bromofluorobenzene	100.0	89-109
Surr: Toluene-d8	97.0	89-110

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: HA_101221B-3871437 Units: ug/L
Analysis Date: 12/21/2010 23:29 Analyst: CDP

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	50.0	52.3	105	50.0	54.1	108	3.5	23	88	117
Ethylbenzene	50.0	51.1	102	50.0	53.6	107	4.8	16	90	114
Methyl tert-butyl ether	50.0	52.6	105	50.0	54.3	109	3.2	23	80	124
Naphthalene	50.0	53.1	106	50.0	53.7	107	1.2	27	68	131
Toluene	50.0	50.3	101	50.0	52.6	105	4.4	21	84	118
m,p-Xylene	100	103	103	100	106	106	3.1	20	86	114
o-Xylene	50.0	51.5	103	50.0	53.9	108	4.4	17	87	117
Xylenes,Total	150.0	154.5	103.2	150.0	159.9	106.9	3.5	20	86	117
Surr: 1,2-Dichloroethane-d4	50.0	51.2	102	50.0	51.0	102	0.3	30	75	120
Surr: 4-Bromofluorobenzene	50.0	49.9	99.7	50.0	51.2	102	2.7	30	89	109
Surr: Toluene-d8	50.0	49.5	99.1	50.0	49.3	98.6	0.5	30	89	110

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

Sample Receipt Checklist

And

Chain of Custody

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Sample Receipt Checklist

Workorder:	**10120821**	Received By:	**SAB**
Date and Time Received:	**12/18/2010 10:40:00 AM**	Carrier name:	**FedEx-Pri Saturday Del**
Temperature:	**4°C**	Chilled by:	**Water Ice**

1.	**Shipping container/cooler in good condition?**	Yes ☑	No ☐	Not Present ☐
2.	**Custody seals intact on shippping container/cooler?**	Yes ☑	No ☐	Not Present ☐
3.	**Custody seals intact on sample bottles?**	Yes ☐	No ☐	Not Present ☑
4.	**Chain of custody present?**	Yes ☑	No ☐	
5.	**Chain of custody signed when relinquished and received?**	Yes ☑	No ☐	
6.	**Chain of custody agrees with sample labels?**	Yes ☑	No ☐	
7.	**Samples in proper container/bottle?**	Yes ☑	No ☐	
8.	**Sample containers intact?**	Yes ☑	No ☐	
9.	**Sufficient sample volume for indicated test?**	Yes ☑	No ☐	
10.	**All samples received within holding time?**	Yes ☑	No ☐	
11.	**Container/Temp Blank temperature in compliance?**	Yes ☑	No ☐	
12.	**Water - VOA vials have zero headspace?**	Yes ☑	No ☐	VOA Vials Not Present ☐
13.	**Water - Preservation checked upon receipt (except VOA*)?**	Yes ☐	No ☐	Not Applicable ☑

***VOA Preservation Checked After Sample Analysis**

SPL Representative: _____ **Contact Date & Time:** _____

Client Name Contacted: _____

Non Conformance Issues: _____

Client Instructions: _____

SPL, Inc.
Analysis Request & Chain of Custody Record

SPL Workorder No.: 1012082 | page 1 of 1

Client Name: ATC
Address: 400 Northwest Dr, Suite 9
City: Columbia State: SC Zip: [redacted]
Phone/Fax: (803) 735-0003
Client Contact: Allen L. Wash Email:
Project Name/No.: 014.25344.0565
Site Name: Fantech #565
Site Location: Anderson, SC
Invoice To: PO:

matrix: W=water S=soil O=oil A=air SL=sludge X=encore X=other
bottle: P=plastic G=glass A=amber glass V=vial X=other
size: 1=1 liter 4=4oz. 8=8oz 16=16oz 40=vial X=other
pres.: H=HCl 2=HNO3 S=H2SO4 X=other

Requested Analysis: BTEX / MTBE / NAPH

SAMPLE ID	DATE	TIME	comp	grab	matrix	bottle	size	pres.	Number of Containers	BTEX/MTBE/NAPH	
FS-1	12/15/10	1020		X	X	X	X	X	3	X	3
FS-2		1100							3		3
FS-3		1130							3		3
FS-4		1205							3		3
FS-5		1230							3		3
FS-6		1300							3		3
FS-7		1306							3		3
FS-8		1330							3		3
FS-9		1400							3		3
FS-10		1415							3		3
FS-11		1435							3		3

Client/Consultant Remarks:
Laboratory remarks: 9/5 oz. Cool Intact? Y N Ice? Y N Temp: 4.0 / 5.1 Rw-8

Requested TAT
☐ 1 Business Day ☐ Contract
☐ 2 Business Day ☒ Standard
☐ 3 Business Day
☐ Other
Rush TAT requires prior notice

Special Reporting Requirements: Results: Fax ☐ Email ☒ PDF ☐
Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☐
Special Detection Limits (specify): 13
PM review (initial):

1. Relinquished by Sampler: L.W. / ATC	date: 12/16/10	time: 1510	2. Received by: Fed Ex
3. Relinquished by: Fed Ex	date: 12-16-10	time: 1000	4. Received by: [illegible]
5. Relinquished by: [illegible]	date: 12-16-10	time: 1040	6. Received by Laboratory: L. Rabinowitz

☐ 8880 Interchange Drive, Houston, TX 77054 (713) 660-8901
☐ 500 Ambassador Caffery Parkway, Scott, LA 70583 (337) 237-4775
☐ 659 Hughes Drive, Traverse City, MI 49686 (231) 947-5777

[redacted]

FedEx US Airbill FedEx Tracking Number 8724 2741 1706

Information can be entered for Recipient's records.

17 10 FedEx Tracking Number 872427411706

IND L. WASH Phone 613 735-0003

ATC

400 NORTHEAST DR, SUITE Q

COLUMBIA State SC ZIP 29203

Optional Billing Reference

SHIPPING AND RECEIVING Phone 337 237-4773

SOUTHERN PETROLEUM LABS

0 AMBASSADOR CAFFERY PKWY

HOLD Weekday

HOLD Saturday

HOLD location address or for confirmation of your shipping address

LY State LA ZIP 70503-5300

0421411290

Recipient's Copy

4a Express Package Service *Minimum charge applies. Packages up to 150 lbs.

[redacted]

☐ FedEx First Overnight

☐ FedEx 2Day

☐ FedEx Express Saver

4b Express Freight Service *Minimum charge applies. Packages over 150 lbs.

☐ FedEx 1Day Freight

☐ FedEx 2Day Freight

☐ FedEx 3Day Freight

5 Packaging *Declared value limit $500

☐ FedEx Envelope* ☐ FedEx Pak* ☐ FedEx Box ☐ FedEx Tube ☒ Other

6 Special Handling and Delivery Signature Options

[redacted]

☐ No Signature Required ☐ Direct Signature ☐ Indirect Signature

Does this shipment contain dangerous goods?

One boxman to checkout.

☒ No ☐ Yes ☐ Yes ☐ Dry Ice

☐ Cargo Aircraft Only

7 Payment Bill to:

☐ Sender ☒ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

Total Packages 1 Total Weight 27 lb.

[redacted]

fedex.com 1800GoFedEx 1800463339

[redacted]

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Case Narrative for:
ATC ASSOCIATES, INC.

Certificate of Analysis Number:
11041256

Report To:		Project Name:	014.25384.0585
ATC ASSOCIATES, INC.		Site:	PANTRY #585
CHAD WASH		Site Address:	
400 NORTHEAST DRIVE			
UNIT Q		PO Number:	
COLUMBIA		State:	South Carolina
SC		State Cert. No.:	73004001
29203-		Date Reported:	6/15/2011
ph: (803) 735-0003	fax: (803) 735-0443		

NOTE: THIS REPORT HAS BEEN AMENDED FROM THE ORIGINAL. THIS REPORT REPLACES IN ITS ENTIRETY ANY PREVIOUSLY SUBMITTED COPY. The quality control supported reporting limits for 1,2-Dibromoethane have been lowered to within instrument capababilities.

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data for those samples spiked by the laboratory and may be applicable to other samples of similar matrix from the site. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process. If insufficient sample is supplied for MS/MSD, a Laboratory Control Sample (LCS) and a Laboratory Control Sample Duplicate (LCSD) are reported with the analytical batch and serve as the batch quality control (QC).

Results are reported on a Wet Weight Basis unless otherwise noted in the sample unit field as -dry.

The collection of samples using encores, terracores or other field collection devices may result in inconsistent initial sample weights for the parent sample and MS/MSD samples.

The MS/MSD recovery and precision data are calculated based on detected spike concentrations that are adjusted for initial sample weights. As a result of the variability between initial sample weights, the calculated RPD may have increased bias.

EXCEPTIONS:
Volatile Organics by SW846 method 8260B: Lab batch R261525-The recovery in the LCSD sample exceeded the upper laboratory control limit for Ethanol. Ethanol was not detected in the associated field samples. Lab batch R261526-The recovery in the LCS sample exceeded the upper laboratory control limit for Naphthalene. Naphthalene was not detected in the associated field samples.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

Accutest Gulf Coast is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Amy K. Jackson
Project Manager

6/15/2011
Date

Test results meet all requirements of NELAC, unless specified in the narrative.

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

ATC ASSOCIATES, INC.

Certificate of Analysis Number:

11041256

Report To: ATC ASSOCIATES, INC.
CHAD WASH
400 NORTHEAST DRIVE
UNIT Q
COLUMBIA
SC
29203-
ph: (803) 735-0003 fax: (803) 735-0443

Fax To:

Project Name: 014.25384.0585
Site: PANTRY #585
Site Address:

PO Number:
State: South Carolina
State Cert. No.: 73004001
Date Reported: 6/15/2011

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
MW-PL-1	11041256-01	Water	04/29/2011 8:00	4/30/2011 9:45:00 AM	317931	☐
MW-PL-2	11041256-02	Water	04/29/2011 8:30	4/30/2011 9:45:00 AM	317931	☐
MW-PL-3	11041256-03	Water	04/29/2011 9:00	4/30/2011 9:45:00 AM	317931	☐
IW-1	11041256-04	Water	04/29/2011 10:00	4/30/2011 9:45:00 AM	317931	☐
DMW-4	11041256-05	Water	04/29/2011 10:30	4/30/2011 9:45:00 AM	317931	☐
MW-3	11041256-06	Water	04/29/2011 11:00	4/30/2011 9:45:00 AM	317931	☐
MW-5	11041256-07	Water	04/29/2011 12:00	4/30/2011 9:45:00 AM	317931	☐
MW-12	11041256-08	Water	04/29/2011 12:30	4/30/2011 9:45:00 AM	317931	☐
MW-17	11041256-09	Water	04/29/2011 12:45	4/30/2011 9:45:00 AM	317931	☐
MW-18	11041256-10	Water	04/29/2011 13:30	4/30/2011 9:45:00 AM	317931	☐

Amy K. Jackson
Project Manager

6/15/2011
Date

Ron Benjamin
Laboratory Director

Tristan Davis
Quality Assurance Officer

Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-PL-1 **Collected:** 04/29/2011 8:00 **SPL Sample ID:** 11041256-01

Site: PANTRY #585

Analyses/Method	Result	QUAL	MDL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP					**MCL**	**SW8011 Units: ug/L**			
1,2-Dibromoethane	ND		0.017		0.023	1	05/05/11 14:30	SJA	4044521
Surr: 1-Chloro-2-fluorobenzene	221	*	0	%	33-151	1	05/05/11 14:30	SJA	4044521

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/03/2011 16:28	JDF	1.15

Amy K. Jackson
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit (MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

6/15/2011 11:52:36 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-PL-1 **Collected:** 04/29/2011 8:00 **SPL Sample ID:** 11041256-01

Site: **PANTRY #585**

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
TOTAL METALS BY METHOD 6010C (WATER)				**MCL**	**SW6010C Units: mg/L**			
Lead	ND		0.00306	0.01	1	05/03/11 19:07	SVW	4042340

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	05/02/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
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B - Analyte Detected In The Associated Method Blank
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TNTC - Too numerous to count

6/15/2011 11:52:37 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-PL-1 **Collected:** 04/29/2011 8:00 **SPL Sample ID:** 11041256-01

Site: PANTRY #585

Analyses/Method	Result	QUAL	MDL		Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B						**MCL**		**SW8260B Units: ug/L**		
3,3-Dimethyl-1-butanol	ND		4.9		10		1	05/05/11 4:16	DN	4043745
Diisopropyl ether	ND		0.2		5	150	1	05/05/11 4:16	DN	4043745
Ethanol	ND		45		100	1000	1	05/05/11 4:16	DN	4043745
t-Butyl alcohol	ND		6.9		10	1400	1	05/05/11 4:16	DN	4043745
tert-Amyl alcohol	ND		6.6		10	240	1	05/05/11 4:16	DN	4043745
tert-Amyl methyl ether	ND		0.23		5	128	1	05/05/11 4:16	DN	4043745
tert-Butyl ethyl ether	ND		0.21		5	47	1	05/05/11 4:16	DN	4043745
tert-Butyl formate	ND		0.43		1	100	1	05/05/11 4:16	DN	4043745
1,2-Dichloroethane	ND		0.26		5		1	05/05/11 4:16	DN	4043745
Benzene	ND		0.19		1		1	05/05/11 4:16	DN	4043745
Ethylbenzene	ND		0.33		1		1	05/05/11 4:16	DN	4043745
Methyl tert-butyl ether	ND		0.18		1		1	05/05/11 4:16	DN	4043745
Naphthalene	ND		0.39		5		1	05/05/11 4:16	DN	4043745
Toluene	ND		0.26		1		1	05/05/11 4:16	DN	4043745
m,p-Xylene	ND		0.41		2		1	05/05/11 4:16	DN	4043745
o-Xylene	ND		0.2		2		1	05/05/11 4:16	DN	4043745
Xylenes,Total	ND		0.2		2		1	05/05/11 4:16	DN	4043745
Surr: 1,2-Dichloroethane-d4	101		0	%	79-119		1	05/05/11 4:16	DN	4043745
Surr: 4-Bromofluorobenzene	99.9		0	%	89-110		1	05/05/11 4:16	DN	4043745
Surr: Toluene-d8	97.1		0	%	86-110		1	05/05/11 4:16	DN	4043745

Amy K. Jackson
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit (MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

6/15/2011 11:52:38 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-PL-1 **Collected:** 04/29/2011 8:00 **SPL Sample ID:** 11041256-01

Site: **PANTRY #585**

Analyses/Method	Result	QUAL	MDL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
IRON, FERROUS					**MCL**	**M3500-FE B Units: mg/L**			
Iron, Ferrous	ND		0.0445	0.05		1	04/30/11 11:00	TF	4038005
NITRATE (AS N)					**MCL**	**M4500-NO3 E Units: mg/L**			
Nitrate (As N)	ND		0.00719	0.01		1	05/04/11 14:35	JZ	4042515
SULFATE BY ASTM D516-90					**MCL**	**ASTM D516-90 Units: mg/L**			
Sulfate	24.7		1.27	5		1	05/06/11 14:40	TB	4045655

Amy K. Jackson
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
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B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit (MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

6/15/2011 11:52:40 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-PL-2 **Collected:** 04/29/2011 8:30 **SPL Sample ID:** 11041256-02

Site: PANTRY #585

Analyses/Method	Result	QUAL	MDL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP					**MCL**	**SW8011 Units: ug/L**			
1,2-Dibromoethane	ND		0.016		0.022	1	05/05/11 14:50	SJA	4044522
Surr: 1-Chloro-2-fluorobenzene	163	*	0	%	33-151	1	05/05/11 14:50	SJA	4044522

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/03/2011 16:28	JDF	1.09

Amy K. Jackson
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit (MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

6/15/2011 11:52:42 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-PL-2 **Collected:** 04/29/2011 8:30 **SPL Sample ID:** 11041256-02

Site: PANTRY #585

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
TOTAL METALS BY METHOD 6010C (WATER)					**MCL**	**SW6010C Units: mg/L**		
Lead	ND		0.00306	0.01	1	05/03/11 19:09	SVW	4042341

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	05/02/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
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B - Analyte Detected In The Associated Method Blank
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TNTC - Too numerous to count

6/15/2011 11:52:43 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-PL-2 **Collected:** 04/29/2011 8:30 **SPL Sample ID:** 11041256-02

Site: PANTRY #585

Analyses/Method	Result	QUAL	MDL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B					**MCL**		**SW8260B Units: ug/L**		
3,3-Dimethyl-1-butanol	ND		4.9	10		1	05/05/11 4:45	DN	4043746
Diisopropyl ether	ND		0.2	5	150	1	05/05/11 4:45	DN	4043746
Ethanol	ND		45	100	1000	1	05/05/11 4:45	DN	4043746
t-Butyl alcohol	ND		6.9	10	1400	1	05/05/11 4:45	DN	4043746
tert-Amyl alcohol	ND		6.6	10	240	1	05/05/11 4:45	DN	4043746
tert-Amyl methyl ether	ND		0.23	5	128	1	05/05/11 4:45	DN	4043746
tert-Butyl ethyl ether	ND		0.21	5	47	1	05/05/11 4:45	DN	4043746
tert-Butyl formate	ND		0.43	1	100	1	05/05/11 4:45	DN	4043746
1,2-Dichloroethane	ND		0.26	5		1	05/05/11 4:45	DN	4043746
Benzene	ND		0.19	1		1	05/05/11 4:45	DN	4043746
Ethylbenzene	ND		0.33	1		1	05/05/11 4:45	DN	4043746
Methyl tert-butyl ether	ND		0.18	1		1	05/05/11 4:45	DN	4043746
Naphthalene	1.9	J	0.39	5		1	05/05/11 4:45	DN	4043746
Toluene	ND		0.26	1		1	05/05/11 4:45	DN	4043746
m,p-Xylene	ND		0.41	2		1	05/05/11 4:45	DN	4043746
o-Xylene	ND		0.2	2		1	05/05/11 4:45	DN	4043746
Xylenes,Total	ND		0.2	2		1	05/05/11 4:45	DN	4043746
Surr: 1,2-Dichloroethane-d4	100		0	% 79-119		1	05/05/11 4:45	DN	4043746
Surr: 4-Bromofluorobenzene	98.0		0	% 89-110		1	05/05/11 4:45	DN	4043746
Surr: Toluene-d8	98.3		0	% 86-110		1	05/05/11 4:45	DN	4043746

Amy K. Jackson
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
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D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

6/15/2011 11:52:44 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-PL-2 **Collected:** 04/29/2011 8:30 **SPL Sample ID:** 11041256-02

Site: PANTRY #585

Analyses/Method	Result	QUAL	MDL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
IRON, FERROUS					**MCL**	**M3500-FE B Units: mg/L**			
Iron, Ferrous	ND		0.0445	0.05		1	04/30/11 11:00	TF	4038008
NITRATE (AS N)					**MCL**	**M4500-NO3 E Units: mg/L**			
Nitrate (As N)	ND		0.00719	0.01		1	05/04/11 14:35	JZ	4042516
SULFATE BY ASTM D516-90					**MCL**	**ASTM D516-90 Units: mg/L**			
Sulfate	25.6		1.27	5		1	05/06/11 14:40	TB	4045658

Amy K. Jackson
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit (MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

6/15/2011 11:52:47 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-PL-3 **Collected:** 04/29/2011 9:00 **SPL Sample ID:** 11041256-03

Site: PANTRY #585

Analyses/Method	Result	QUAL	MDL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP					**MCL**		**SW8011 Units: ug/L**		
1,2-Dibromoethane	ND		0.016		0.022	1	05/05/11 15:11	SJA	4044523
Surr: 1-Chloro-2-fluorobenzene	200	*	0	%	33-151	1	05/05/11 15:11	SJA	4044523

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/03/2011 16:28	JDF	1.09

Amy K. Jackson
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
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D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

6/15/2011 11:52:48 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-PL-3 **Collected:** 04/29/2011 9:00 **SPL Sample ID:** 11041256-03

Site: **PANTRY #585**

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
TOTAL METALS BY METHOD 6010C (WATER)				**MCL**	**SW6010C Units: mg/L**			
Lead	ND		0.00306	0.01	1	05/03/11 19:11	SVW	4042342

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	05/02/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
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D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

6/15/2011 11:52:50 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-PL-3 **Collected:** 04/29/2011 9:00 **SPL Sample ID:** 11041256-03

Site: PANTRY #585

Analyses/Method	Result	QUAL	MDL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B					**MCL**		**SW8260B Units: ug/L**		
3,3-Dimethyl-1-butanol	ND		4.9	10		1	05/05/11 5:14	DN	4043747
Diisopropyl ether	ND		0.2	5	150	1	05/05/11 5:14	DN	4043747
Ethanol	ND		45	100	1000	1	05/05/11 5:14	DN	4043747
t-Butyl alcohol	ND		6.9	10	1400	1	05/05/11 5:14	DN	4043747
tert-Amyl alcohol	ND		6.6	10	240	1	05/05/11 5:14	DN	4043747
tert-Amyl methyl ether	ND		0.23	5	128	1	05/05/11 5:14	DN	4043747
tert-Butyl ethyl ether	ND		0.21	5	47	1	05/05/11 5:14	DN	4043747
tert-Butyl formate	ND		0.43	1	100	1	05/05/11 5:14	DN	4043747
1,2-Dichloroethane	ND		0.26	5		1	05/05/11 5:14	DN	4043747
Benzene	ND		0.19	1		1	05/05/11 5:14	DN	4043747
Ethylbenzene	ND		0.33	1		1	05/05/11 5:14	DN	4043747
Methyl tert-butyl ether	ND		0.18	1		1	05/05/11 5:14	DN	4043747
Naphthalene	2.2	J	0.39	5		1	05/05/11 5:14	DN	4043747
Toluene	ND		0.26	1		1	05/05/11 5:14	DN	4043747
m,p-Xylene	ND		0.41	2		1	05/05/11 5:14	DN	4043747
o-Xylene	ND		0.2	2		1	05/05/11 5:14	DN	4043747
Xylenes,Total	ND		0.2	2		1	05/05/11 5:14	DN	4043747
Surr: 1,2-Dichloroethane-d4	101		0	% 79-119		1	05/05/11 5:14	DN	4043747
Surr: 4-Bromofluorobenzene	99.1		0	% 89-110		1	05/05/11 5:14	DN	4043747
Surr: Toluene-d8	97.7		0	% 86-110		1	05/05/11 5:14	DN	4043747

Amy K. Jackson
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit (MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

6/15/2011 11:52:51 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-PL-3 **Collected:** 04/29/2011 9:00 **SPL Sample ID:** 11041256-03

Site: **PANTRY #585**

Analyses/Method	Result	QUAL	MDL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
IRON, FERROUS					**MCL**	**M3500-FE B Units: mg/L**			
Iron, Ferrous	ND		0.0445	0.05		1	04/30/11 11:00	TF	4038009
NITRATE (AS N)					**MCL**	**M4500-NO3 E Units: mg/L**			
Nitrate (As N)	0.066		0.00719	0.01		1	05/06/11 10:05	JZ	4045177
SULFATE BY ASTM D516-90					**MCL**	**ASTM D516-90 Units: mg/L**			
Sulfate	22.8		1.27	5		1	05/06/11 14:40	TB	4045659

Amy K. Jackson
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit (MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

6/15/2011 11:52:53 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: IW-1 **Collected:** 04/29/2011 10:00 **SPL Sample ID:** 11041256-04

Site: **PANTRY #585**

Analyses/Method	Result	QUAL	MDL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP					**MCL**	**SW8011 Units: ug/L**			
1,2-Dibromoethane	ND		0.016		0.021	1	05/05/11 15:31	SJA	4044524
Surr: 1-Chloro-2-fluorobenzene	135		0	%	33-151	1	05/05/11 15:31	SJA	4044524

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/03/2011 16:28	JDF	1.07

Amy K. Jackson
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit (MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

6/15/2011 11:52:55 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: IW-1 **Collected:** 04/29/2011 10:00 **SPL Sample ID:** 11041256-04

Site: PANTRY #585

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
TOTAL METALS BY METHOD 6010C (WATER)					**MCL**	**SW6010C Units: mg/L**		
Lead	ND		0.00306	0.01	1	05/03/11 19:13	SVW	4042343

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	05/02/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit (MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

6/15/2011 11:52:56 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: IW-1 **Collected:** 04/29/2011 10:00 **SPL Sample ID:** 11041256-04

Site: PANTRY #585

Analyses/Method	Result	QUAL	MDL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B					**MCL**	**SW8260B Units: ug/L**			
3,3-Dimethyl-1-butanol	ND		4.9	10		1	05/05/11 5:43	DN	4043748
Diisopropyl ether	13		0.2	5	150	1	05/05/11 5:43	DN	4043748
Ethanol	ND		45	100	1000	1	05/05/11 5:43	DN	4043748
t-Butyl alcohol	28		6.9	10	1400	1	05/05/11 5:43	DN	4043748
tert-Amyl alcohol	170		6.6	10	240	1	05/05/11 5:43	DN	4043748
tert-Amyl methyl ether	1.6	J	0.23	5	128	1	05/05/11 5:43	DN	4043748
tert-Butyl ethyl ether	ND		0.21	5	47	1	05/05/11 5:43	DN	4043748
tert-Butyl formate	ND		0.43	1	100	1	05/05/11 5:43	DN	4043748
1,2-Dichloroethane	ND		0.26	5		1	05/05/11 5:43	DN	4043748
Benzene	1.2		0.19	1		1	05/05/11 5:43	DN	4043748
Ethylbenzene	ND		0.33	1		1	05/05/11 5:43	DN	4043748
Methyl tert-butyl ether	1.6		0.18	1		1	05/05/11 5:43	DN	4043748
Naphthalene	ND		0.39	5		1	05/05/11 5:43	DN	4043748
Toluene	ND		0.26	1		1	05/05/11 5:43	DN	4043748
m,p-Xylene	ND		0.41	2		1	05/05/11 5:43	DN	4043748
o-Xylene	ND		0.2	2		1	05/05/11 5:43	DN	4043748
Xylenes,Total	ND		0.2	2		1	05/05/11 5:43	DN	4043748
Surr: 1,2-Dichloroethane-d4	102		0	% 79-119		1	05/05/11 5:43	DN	4043748
Surr: 4-Bromofluorobenzene	99.1		0	% 89-110		1	05/05/11 5:43	DN	4043748
Surr: Toluene-d8	98.2		0	% 86-110		1	05/05/11 5:43	DN	4043748

Amy K. Jackson
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit (MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

6/15/2011 11:52:57 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: IW-1 **Collected:** 04/29/2011 10:00 **SPL Sample ID:** 11041256-04

Site: PANTRY #585

Analyses/Method	Result	QUAL	MDL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
IRON, FERROUS					**MCL**	**M3500-FE B Units: mg/L**			
Iron, Ferrous	ND		0.0445	0.05		1	04/30/11 11:00	TF	4038010
NITRATE (AS N)					**MCL**	**M4500-NO3 E Units: mg/L**			
Nitrate (As N)	ND		0.00719	0.01		1	05/06/11 10:05	JZ	4045180
SULFATE BY ASTM D516-90					**MCL**	**ASTM D516-90 Units: mg/L**			
Sulfate	8.34		1.27	5		1	05/06/11 14:40	TB	4045660

Amy K. Jackson
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit (MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

6/15/2011 11:53:00 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: DMW-4 **Collected:** 04/29/2011 10:30 **SPL Sample ID:** 11041256-05

Site: PANTRY #585

Analyses/Method	Result	QUAL	MDL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP					**MCL**		**SW8011 Units: ug/L**		
1,2-Dibromoethane	ND		0.016		0.022	1	05/05/11 15:51	SJA	4044525
Surr: 1-Chloro-2-fluorobenzene	247	*	0	%	33-151	1	05/05/11 15:51	SJA	4044525

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/03/2011 16:28	JDF	1.12

Amy K. Jackson
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit (MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

6/15/2011 11:53:02 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: DMW-4 **Collected:** 04/29/2011 10:30 **SPL Sample ID:** 11041256-05

Site: PANTRY #585

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
TOTAL METALS BY METHOD 6010C (WATER)				**MCL**	**SW6010C Units: mg/L**			
Lead	ND		0.00306	0.01	1	05/03/11 19:14	SVW	4042344

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	05/02/2011 17:00	SA	1.00

Amy K. Jackson
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit (MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

6/15/2011 11:53:04 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: DMW-4 **Collected:** 04/29/2011 10:30 **SPL Sample ID:** 11041256-05

Site: PANTRY #585

Analyses/Method	Result	QUAL	MDL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B					**MCL**		**SW8260B Units: ug/L**		
3,3-Dimethyl-1-butanol	ND		4.9	10		1	05/05/11 6:12	DN	4043749
Diisopropyl ether	ND		0.2	5	150	1	05/05/11 6:12	DN	4043749
Ethanol	ND		45	100	1000	1	05/05/11 6:12	DN	4043749
t-Butyl alcohol	ND		6.9	10	1400	1	05/05/11 6:12	DN	4043749
tert-Amyl alcohol	ND		6.6	10	240	1	05/05/11 6:12	DN	4043749
tert-Amyl methyl ether	ND		0.23	5	128	1	05/05/11 6:12	DN	4043749
tert-Butyl ethyl ether	ND		0.21	5	47	1	05/05/11 6:12	DN	4043749
tert-Butyl formate	ND		0.43	1	100	1	05/05/11 6:12	DN	4043749
1,2-Dichloroethane	ND		0.26	5		1	05/05/11 6:12	DN	4043749
Benzene	ND		0.19	1		1	05/05/11 6:12	DN	4043749
Ethylbenzene	ND		0.33	1		1	05/05/11 6:12	DN	4043749
Methyl tert-butyl ether	ND		0.18	1		1	05/05/11 6:12	DN	4043749
Naphthalene	2.1	J	0.39	5		1	05/05/11 6:12	DN	4043749
Toluene	ND		0.26	1		1	05/05/11 6:12	DN	4043749
m,p-Xylene	ND		0.41	2		1	05/05/11 6:12	DN	4043749
o-Xylene	ND		0.2	2		1	05/05/11 6:12	DN	4043749
Xylenes,Total	ND		0.2	2		1	05/05/11 6:12	DN	4043749
Surr: 1,2-Dichloroethane-d4	102		0	% 79-119		1	05/05/11 6:12	DN	4043749
Surr: 4-Bromofluorobenzene	100		0	% 89-110		1	05/05/11 6:12	DN	4043749
Surr: Toluene-d8	98.3		0	% 86-110		1	05/05/11 6:12	DN	4043749

Amy K. Jackson
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit (MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

6/15/2011 11:53:06 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: DMW-4 **Collected:** 04/29/2011 10:30 **SPL Sample ID:** 11041256-05

Site: PANTRY #585

Analyses/Method	Result	QUAL	MDL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
IRON, FERROUS				**MCL**	**M3500-FE B Units: mg/L**			
Iron, Ferrous	ND		0.0445	0.05	1	04/30/11 11:00	TF	4038011
NITRATE (AS N)				**MCL**	**M4500-NO3 E Units: mg/L**			
Nitrate (As N)	ND		0.00719	0.01	1	05/06/11 10:05	JZ	4045181
SULFATE BY ASTM D516-90				**MCL**	**ASTM D516-90 Units: mg/L**			
Sulfate	21.9		1.27	5	1	05/06/11 14:40	TB	4045661

Amy K. Jackson
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit (MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

6/15/2011 11:53:09 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-3 **Collected:** 04/29/2011 11:00 **SPL Sample ID:** 11041256-06

Site: **PANTRY #585**

Analyses/Method	Result	QUAL	MDL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN					**MCL**	**SW8260B Units: ug/L**			
Benzene	50		0.19		1	1	05/06/11 14:39	DN	4046020
Ethylbenzene	0.73	J	0.33		1	1	05/06/11 14:39	DN	4046020
Methyl tert-butyl ether	120		0.18		1	1	05/06/11 14:39	DN	4046020
Naphthalene	6.6		0.39		5	1	05/06/11 14:39	DN	4046020
Toluene	2.5		0.26		1	1	05/06/11 14:39	DN	4046020
m,p-Xylene	12		0.41		2	1	05/06/11 14:39	DN	4046020
o-Xylene	17		0.2		2	1	05/06/11 14:39	DN	4046020
Xylenes,Total	29		0.2		2	1	05/06/11 14:39	DN	4046020
Surr: 1,2-Dichloroethane-d4	95.3		0	%	79-119	1	05/06/11 14:39	DN	4046020
Surr: 4-Bromofluorobenzene	105		0	%	89-110	1	05/06/11 14:39	DN	4046020
Surr: Toluene-d8	100		0	%	86-110	1	05/06/11 14:39	DN	4046020

Amy K. Jackson
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit (MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

6/15/2011 11:53:12 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-5 **Collected:** 04/29/2011 12:00 **SPL Sample ID:** 11041256-07

Site: PANTRY #585

Analyses/Method	Result	QUAL	MDL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN					**MCL**	**SW8260B Units: ug/L**			
Benzene	ND		0.19		1	1	05/05/11 1:09	DN	4043829
Ethylbenzene	ND		0.33		1	1	05/05/11 1:09	DN	4043829
Methyl tert-butyl ether	ND		0.18		1	1	05/05/11 1:09	DN	4043829
Naphthalene	ND		0.39		5	1	05/05/11 1:09	DN	4043829
Toluene	ND		0.26		1	1	05/05/11 1:09	DN	4043829
m,p-Xylene	ND		0.41		2	1	05/05/11 1:09	DN	4043829
o-Xylene	ND		0.2		2	1	05/05/11 1:09	DN	4043829
Xylenes,Total	ND		0.2		2	1	05/05/11 1:09	DN	4043829
Surr: 1,2-Dichloroethane-d4	87.2		0	%	79-119	1	05/05/11 1:09	DN	4043829
Surr: 4-Bromofluorobenzene	97.2		0	%	89-110	1	05/05/11 1:09	DN	4043829
Surr: Toluene-d8	99.8		0	%	86-110	1	05/05/11 1:09	DN	4043829

Amy K. Jackson
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit (MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

6/15/2011 11:53:14 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-12 **Collected:** 04/29/2011 12:30 **SPL Sample ID:** 11041256-08

Site: PANTRY #585

Analyses/Method	Result	QUAL	MDL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN					**MCL**		**SW8260B Units: ug/L**		
Benzene	ND		0.19	1		1	05/04/11 21:20	DN	4043459
Ethylbenzene	ND		0.33	1		1	05/04/11 21:20	DN	4043459
Methyl tert-butyl ether	4.2		0.18	1		1	05/04/11 21:20	DN	4043459
Naphthalene	4.2	J	0.39	5		1	05/04/11 21:20	DN	4043459
Toluene	ND		0.26	1		1	05/04/11 21:20	DN	4043459
m,p-Xylene	ND		0.41	2		1	05/04/11 21:20	DN	4043459
o-Xylene	ND		0.2	2		1	05/04/11 21:20	DN	4043459
Xylenes,Total	ND		0.2	2		1	05/04/11 21:20	DN	4043459
Surr: 1,2-Dichloroethane-d4	97.8		0	% 79-119		1	05/04/11 21:20	DN	4043459
Surr: 4-Bromofluorobenzene	103		0	% 89-110		1	05/04/11 21:20	DN	4043459
Surr: Toluene-d8	97.9		0	% 86-110		1	05/04/11 21:20	DN	4043459

Amy K. Jackson
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit (MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

6/15/2011 11:53:16 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-17 **Collected:** 04/29/2011 12:45 **SPL Sample ID:** 11041256-09

Site: PANTRY #585

Analyses/Method	Result	QUAL	MDL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN					**MCL**	**SW8260B Units: ug/L**			
Benzene	7.6		0.19		1	1	05/05/11 22:52	CDP	4045033
Ethylbenzene	26		0.33		1	1	05/05/11 22:52	CDP	4045033
Methyl tert-butyl ether	ND		0.18		1	1	05/05/11 22:52	CDP	4045033
Naphthalene	17		0.39		5	1	05/05/11 22:52	CDP	4045033
Toluene	31		0.26		1	1	05/05/11 22:52	CDP	4045033
m,p-Xylene	36		0.41		2	1	05/05/11 22:52	CDP	4045033
o-Xylene	11		0.2		2	1	05/05/11 22:52	CDP	4045033
Xylenes,Total	47		0.2		2	1	05/05/11 22:52	CDP	4045033
Surr: 1,2-Dichloroethane-d4	96.4		0	%	79-119	1	05/05/11 22:52	CDP	4045033
Surr: 4-Bromofluorobenzene	100		0	%	89-110	1	05/05/11 22:52	CDP	4045033
Surr: Toluene-d8	100		0	%	86-110	1	05/05/11 22:52	CDP	4045033

Amy K. Jackson
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit (MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

6/15/2011 11:53:18 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-18 **Collected:** 04/29/2011 13:30 **SPL Sample ID:** 11041256-10

Site: PANTRY #585

Analyses/Method	Result	QUAL	MDL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN					**MCL**	**SW8260B Units: ug/L**			
Benzene	ND		0.19		1	1	05/05/11 2:07	DN	4043831
Ethylbenzene	ND		0.33		1	1	05/05/11 2:07	DN	4043831
Methyl tert-butyl ether	ND		0.18		1	1	05/05/11 2:07	DN	4043831
Naphthalene	ND		0.39		5	1	05/05/11 2:07	DN	4043831
Toluene	ND		0.26		1	1	05/05/11 2:07	DN	4043831
m,p-Xylene	ND		0.41		2	1	05/05/11 2:07	DN	4043831
o-Xylene	ND		0.2		2	1	05/05/11 2:07	DN	4043831
Xylenes,Total	ND		0.2		2	1	05/05/11 2:07	DN	4043831
Surr: 1,2-Dichloroethane-d4	91.4		0	%	79-119	1	05/05/11 2:07	DN	4043831
Surr: 4-Bromofluorobenzene	105		0	%	89-110	1	05/05/11 2:07	DN	4043831
Surr: Toluene-d8	98.2		0	%	86-110	1	05/05/11 2:07	DN	4043831

Amy K. Jackson
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
J - Estimated value between MDL and PQL
* - Surrogate Recovery Outside Advisable QC Limits
E - Concentrations exceeding Calibration range of Instrument
B - Analyte Detected In The Associated Method Blank
>MCL - Result Over Maximum Contamination Limit (MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference
TNTC - Too numerous to count

6/15/2011 11:53:19 AM

Quality Control Documentation

Version 2.1 - Modified February 11, 2011

6/15/2011 11:53:19 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

014.25384.0585

Analysis: EDB & DBCP
Method: SW8011

WorkOrder: 11041256
Lab Batch ID: 100355

Method Blank

RunID: PCBB_110505C-4044518 Units: ug/L
Analysis Date: 05/05/2011 13:29 Analyst: SJA
Preparation Date: 05/04/2011 17:37 Prep By: JDF Method: E504

Analyte	Result	Qual	Rep Limit	MDL
1,2-Dibromoethane	ND		0.020	0.015
Surr: 1-Chloro-2-fluorobenzene	121.1		33-151	0

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
11041256-01C	MW-PL-1
11041256-02C	MW-PL-2
11041256-03C	MW-PL-3
11041256-04C	IW-1
11041256-05C	DMW-4

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: PCBB_110505C-4044519 Units: ug/L
Analysis Date: 05/05/2011 13:49 Analyst: SJA
Preparation Date: 05/04/2011 17:37 Prep By: JDF Method: E504

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1,2-Dibromoethane	0.570	0.577	101	0.570	0.538	94.4	6.9	30	60	140
Surr: 1-Chloro-2-fluorobenzene	143	159	111	143	152	106	4.6	30	33	151

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 11041248-10
RunID: PCBB_110505C-4044539 Units: ug/L
Analysis Date: 05/05/2011 23:40 Analyst: SJA
Preparation Date: 05/03/2011 16:28 Prep By: JDF Method: E504

Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
1,2-Dibromoethane	ND		0.637	0.811	127		0.627	0.841	134		3.68		30	60	140
Surr: 1-Chloro-2-fluorobenzene	ND		160	264	165	*	157	265	169	*	0.539		30	33	151

Qualifiers:
ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

6/15/2011 11:53:24 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

014.25384.0585

Analysis: **Total Metals by Method 6010C (water)** **WorkOrder:** **11041256**
Method: **SW6010C** **Lab Batch ID:** **100258**

Method Blank

RunID: ICP7300DV_110503C-4042326 Units: mg/L
Analysis Date: 05/03/2011 18:37 Analyst: SVW
Preparation Date: 05/02/2011 17:00 Prep By: SA Method: SW3010A

Analyte	Result	Qual	Rep Limit	MDL
Lead	ND		0.01	0.00306

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
11041256-01B	MW-PL-1
11041256-02B	MW-PL-2
11041256-03B	MW-PL-3
11041256-04B	IW-1
11041256-05B	DMW-4

Laboratory Control Sample (LCS)

RunID: ICP7300DV_110503C-4042 Units: mg/L
Analysis Date: 05/03/2011 18:40 Analyst: SVW
Preparation Date: 05/02/2011 17:00 Prep By: SA Method: SW3010A

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Lead	1.000	1.059	105.9		80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 11041253-01
RunID: ICP7300DV_110503C-4042 Units: mg/L
Analysis Date: 05/03/2011 18:46 Analyst: SVW
Preparation Date: 05/02/2011 17:00 Prep By: SA Method: SW3010A

Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Lead	ND		1	0.9551	95.51		1	1.026	102.6		7.138		20	75	125

Qualifiers:
ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
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6/15/2011 11:53:24 AM

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SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

014.25384.0585

Analysis: **Volatile Organics:Method 8260B+MTBE+Naphthalene** **WorkOrder:** **11041256**
Method: **SW8260B** **Lab Batch ID:** **R261505**

Method Blank

RunID: QA_110504A-4043443 Units: ug/L
Analysis Date: 05/04/2011 13:41 Analyst: DN

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
11041256-08A	MW-12

Analyte	Result	Qual	Rep Limit	MDL
Benzene	ND		1.0	0.19
Ethylbenzene	ND		1.0	0.33
Methyl tert-butyl ether	ND		1.0	0.18
Naphthalene	1.2		5.0	0.39
Toluene	ND		1.0	0.26
m,p-Xylene	ND		2.0	0.41
o-Xylene	ND		2.0	0.2
Xylenes,Total	ND		2.0	0.2
Surr: 1,2-Dichloroethane-d4	97.4		79-119	0
Surr: 4-Bromofluorobenzene	100.1		89-110	0
Surr: Toluene-d8	99.2		86-110	0

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: QA_110504A-4043441 Units: ug/L
Analysis Date: 05/04/2011 12:44 Analyst: DN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	20.0	18.5	92.4	20.0	19.6	98.1	6.0	9	87	118
Ethylbenzene	20.0	18.4	92.0	20.0	19.8	99.2	7.5	9	88	118
Methyl tert-butyl ether	20.0	19.1	95.6	20.0	19.6	98.1	2.6	38	79	127
Naphthalene	20.0	23.0	115	20.0	20.8	104	10.1	13	80	129
Toluene	20.0	19.1	95.7	20.0	20.4	102	6.5	10	86	118
m,p-Xylene	40.0	39.5	98.7	40.0	42.4	106	7.1	9	88	119
o-Xylene	20.0	20.2	101	20.0	21.9	110	8.4	9	87	119
Xylenes,Total	60.0	59.7	99.4	60.0	64.3	107	7.5	9	87	119
Surr: 1,2-Dichloroethane-d4	50.0	48.1	96.2	50.0	48.3	96.6	0.4	30	79	119
Surr: 4-Bromofluorobenzene	50.0	51.9	104	50.0	51.9	104	0.0	30	89	110
Surr: Toluene-d8	50.0	50.7	101	50.0	49.8	99.6	1.7	30	86	110

Qualifiers:
ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

6/15/2011 11:53:25 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

014.25384.0585

Analysis: **Volatile Organics:Method 8260B+MTBE+Naphthalene** **WorkOrder:** **11041256**
Method: **SW8260B** **Lab Batch ID:** **R261505**

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 11041245-06
RunID: QA_110504A-4043450 Units: ug/L
Analysis Date: 05/04/2011 17:02 Analyst: DN

Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Benzene	357		100	455	97.9		100	466	109		2.45		9	87	118
Ethylbenzene	847		100	924	N/C		100	976	N/C		N/C		9	88	118
Methyl tert-butyl ether	5.70		100	102	96.2		100	109	103		6.45		38	79	127
Naphthalene	ND		100	444	444	*	100	475	475	*	6.72		13	80	129
Toluene	52.2		100	136	84.3	*	100	159	107		15.3	*	10	86	118
m,p-Xylene	416		200	603	93.8		200	635	110		5.10		9	88	119
o-Xylene	70.9		100	165	93.7		100	178	107		7.97		9	87	119
Xylenes,Total	487		300	768	93.8		300	813	109		5.72		9	87	119
Surr: 1,2-Dichloroethane-d4	ND		250	253	101		250	262	105		3.59		30	79	119
Surr: 4-Bromofluorobenzene	ND		250	245	97.9		250	269	107		9.25		30	89	110
Surr: Toluene-d8	ND		250	252	101		250	244	97.7		3.12		30	86	110

Qualifiers:
ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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6/15/2011 11:53:25 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

014.25384.0585

Analysis: **Volatile Organics:Method 8260B** **WorkOrder:** **11041256**
Method: **SW8260B** **Lab Batch ID:** **R261525**

Method Blank

RunID: QB_110504C-4043744 Units: ug/L
Analysis Date: 05/05/2011 0:26 Analyst: DN

Analyte	Result	Qual	Rep Limit	MDL
1,2-Dichloroethane	ND		5.0	0.26
3,3-Dimethyl-1-butanol	ND		10	4.9
Benzene	ND		1.0	0.19
Diisopropyl ether	ND		5.0	0.2
Ethanol	ND		100	45
Ethylbenzene	ND		1.0	0.33
Methyl tert-butyl ether	ND		1.0	0.18
Naphthalene	3.6	J	5.0	0.39
t-Butyl alcohol	ND		10	6.9
tert-Amyl alcohol	ND		10	6.6
tert-Amyl methyl ether	ND		5.0	0.23
tert-Butyl ethyl ether	ND		5.0	0.21
tert-Butyl formate	ND		1.0	0.43
Toluene	ND		1.0	0.26
m,p-Xylene	0.54	J	2.0	0.41
o-Xylene	ND		2.0	0.2
Xylenes,Total	0.54	J	2.0	0.2
Surr: 1,2-Dichloroethane-d4	96.2		79-119	0
Surr: 4-Bromofluorobenzene	99.0		89-110	0
Surr: Toluene-d8	96.3		86-110	0

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
11041256-01A	MW-PL-1
11041256-02A	MW-PL-2
11041256-03A	MW-PL-3
11041256-04A	IW-1
11041256-05A	DMW-4

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: QB_110504C-4043742 Units: ug/L
Analysis Date: 05/04/2011 23:29 Analyst: DN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1,2-Dichloroethane	20.0	19.9	99.7	20.0	19.7	98.6	1.2	9	70	130
3,3-Dimethyl-1-butanol	200	225	113	200	228	114	1.4	26	70	130
Benzene	20.0	20.8	104	20.0	20.7	103	0.4	9	70	130
Diisopropyl ether	20.0	21.7	109	20.0	21.9	109	0.9	11	70	130
Ethanol	400	470	117	400	547	137 *	15.2	30	70	130

Qualifiers:
ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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6/15/2011 11:53:25 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

014.25384.0585

Analysis: **Volatile Organics:Method 8260B** **WorkOrder:** **11041256**
Method: **SW8260B** **Lab Batch ID:** **R261525**

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: QB_110504C-4043742 Units: ug/L
Analysis Date: 05/04/2011 23:29 Analyst: DN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Ethylbenzene	20.0	19.4	96.9	20.0	19.1	95.5	1.4	9	70	130
Methyl tert-butyl ether	20.0	20.9	104	20.0	20.9	105	0.4	38	70	130
Naphthalene	20.0	25.6	128	20.0	23.7	118	7.7	13	70	130
t-Butyl alcohol	200	212	106	200	214	107	1.2	50	70	130
tert-Amyl alcohol	200	222	111	200	236	118	6.3	26	70	130
tert-Amyl methyl ether	20.0	21.5	107	20.0	21.9	110	2.1	9	70	130
tert-Butyl ethyl ether	20.0	22.4	112	20.0	22.3	111	0.3	11	70	130
tert-Butyl formate	20.0	20.8	104	20.0	21.7	108	4.3	24	70	130
Toluene	20.0	20.3	102	20.0	19.9	99.7	2.0	10	70	130
m,p-Xylene	40.0	40.5	101	40.0	39.8	99.4	1.7	9	70	130
o-Xylene	20.0	20.5	103	20.0	20.4	102	0.4	9	70	130
Xylenes,Total	60	61	100	60	60	100	1.3	9	70	130
Surr: 1,2-Dichloroethane-d4	50.0	47.6	95.1	50.0	47.1	94.2	1.0	30	79	119
Surr: 4-Bromofluorobenzene	50.0	51.2	102	50.0	50.7	101	1.0	30	89	110
Surr: Toluene-d8	50.0	50.3	101	50.0	50.7	101	0.9	30	86	110

Qualifiers:
ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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6/15/2011 11:53:25 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

014.25384.0585

Analysis: **Volatile Organics:Method 8260B+MTBE+Naphthalene** **WorkOrder:** **11041256**
Method: **SW8260B** **Lab Batch ID:** **R261526**

Method Blank

RunID: QA_110504B-4043827 Units: ug/L
Analysis Date: 05/05/2011 0:12 Analyst: DN

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
11041256-07A	MW-5
11041256-10A	MW-18

Analyte	Result	Qual	Rep Limit	MDL
Benzene	ND		1.0	0.19
Ethylbenzene	ND		1.0	0.33
Methyl tert-butyl ether	ND		1.0	0.18
Naphthalene	1.7		5.0	0.39
Toluene	ND		1.0	0.26
m,p-Xylene	ND		2.0	0.41
o-Xylene	ND		2.0	0.2
Xylenes,Total	ND		2.0	0.2
Surr: 1,2-Dichloroethane-d4	96.1		79-119	0
Surr: 4-Bromofluorobenzene	102.5		89-110	0
Surr: Toluene-d8	98.2		86-110	0

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: QA_110504B-4043825 Units: ug/L
Analysis Date: 05/04/2011 23:14 Analyst: DN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	20.0	20.7	103	20.0	20.9	104	0.9	9	87	118
Ethylbenzene	20.0	20.7	104	20.0	20.9	105	0.8	9	88	118
Methyl tert-butyl ether	20.0	20.2	101	20.0	20.9	104	3.2	38	79	127
Naphthalene	20.0	26.3	132 *	20.0	23.8	119	10.1	13	80	129
Toluene	20.0	21.3	106	20.0	22.0	110	3.3	10	86	118
m,p-Xylene	40.0	43.7	109	40.0	44.5	111	1.8	9	88	119
o-Xylene	20.0	22.5	112	20.0	23.1	116	2.8	9	87	119
Xylenes,Total	60.0	66.2	110	60.0	67.6	113	2.2	9	87	119
Surr: 1,2-Dichloroethane-d4	50.0	47.5	95.0	50.0	48.7	97.4	2.5	30	79	119
Surr: 4-Bromofluorobenzene	50.0	51.7	103	50.0	52.4	105	1.4	30	89	110
Surr: Toluene-d8	50.0	49.7	99.4	50.0	48.1	96.1	3.3	30	86	110

Qualifiers:
ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

6/15/2011 11:53:25 AM

ACCUTEST LABORATORIES

SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

014.25384.0585

Analysis: **Volatile Organics:Method 8260B+MTBE+Naphthalene** **WorkOrder:** **11041256**
Method: **SW8260B** **Lab Batch ID:** **R261526**

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 11041260-07
RunID: QA_110504B-4043844 Units: ug/L
Analysis Date: 05/05/2011 8:21 Analyst: DN

Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Benzene	ND		100	91.3	91.3		100	94.3	94.3		3.23		9	87	118
Ethylbenzene	ND		100	88.8	88.8		100	92.5	92.5		4.05		9	88	118
Methyl tert-butyl ether	ND		100	78.8	78.8	*	100	78.9	78.9	*	0.236		38	79	127
Naphthalene	ND		100	263	263	*	100	335	335	*	24.2	*	13	80	129
Toluene	0.399	J	100	96.4	96.0		100	102	102		5.68		10	86	118
m,p-Xylene	ND		200	190	95.1		200	199	99.7		4.76		9	88	119
o-Xylene	ND		100	97.3	97.3		100	101	101		3.37		9	87	119
Xylenes,Total	ND		300	287.3	95.83		300	300.0	100.0		4.291		9	87	119
Surr: 1,2-Dichloroethane-d4	ND		250	216	86.5		250	222	88.7		2.49		30	79	119
Surr: 4-Bromofluorobenzene	ND		250	265	106		250	263	105		0.717		30	89	110
Surr: Toluene-d8	ND		250	248	99.0		250	244	97.5		1.56		30	86	110

Qualifiers:
ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

014.25384.0585

Analysis: **Volatile Organics:Method 8260B+MTBE+Naphthalene** **WorkOrder:** **11041256**
Method: **SW8260B** **Lab Batch ID:** **R261546**

Method Blank

RunID: HA_110505A-4044128 Units: ug/L
Analysis Date: 05/05/2011 12:59 Analyst: CDP

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
11041256-09A	MW-17

Analyte	Result	Qual	Rep Limit	MDL
Benzene	ND		1.0	0.19
Ethylbenzene	ND		1.0	0.33
Methyl tert-butyl ether	ND		1.0	0.18
Naphthalene	ND		5.0	0.39
Toluene	ND		1.0	0.26
m,p-Xylene	ND		2.0	0.41
o-Xylene	ND		2.0	0.2
Xylenes,Total	ND		2.0	0.2
Surr: 1,2-Dichloroethane-d4	93.9		79-119	0
Surr: 4-Bromofluorobenzene	99.2		89-110	0
Surr: Toluene-d8	100.1		86-110	0

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: HA_110505A-4044126 Units: ug/L
Analysis Date: 05/05/2011 11:57 Analyst: CDP

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	20.0	20.0	100	20.0	20.4	102	1.8	9	87	118
Ethylbenzene	20.0	19.7	98.4	20.0	20.2	101	2.5	9	88	118
Methyl tert-butyl ether	20.0	21.4	107	20.0	21.5	107	0.4	38	79	127
Naphthalene	20.0	21.4	107	20.0	20.3	101	5.3	13	80	129
Toluene	20.0	19.2	96.0	20.0	20.1	100	4.6	10	86	118
m,p-Xylene	40.0	40.0	100	40.0	41.3	103	3.3	9	88	119
o-Xylene	20.0	20.7	104	20.0	21.2	106	2.0	9	87	119
Xylenes,Total	60.0	60.7	101	60.0	62.5	104	2.8	9	87	119
Surr: 1,2-Dichloroethane-d4	50.0	47.0	93.9	50.0	46.3	92.5	1.5	30	79	119
Surr: 4-Bromofluorobenzene	50.0	49.7	99.5	50.0	50.2	100	0.9	30	89	110
Surr: Toluene-d8	50.0	49.8	99.7	50.0	50.3	101	0.9	30	86	110

Qualifiers:
ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

ATC ASSOCIATES, INC.

014.25384.0585

Analysis: **Volatile Organics:Method 8260B+MTBE+Naphthalene** **WorkOrder:** **11041256**
Method: **SW8260B** **Lab Batch ID:** **R261546**

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 11041258-06
RunID: HA_110505A-4045047 Units: ug/L
Analysis Date: 05/05/2011 21:23 Analyst: CDP

Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Benzene	1.15	J	100	105	103		100	107	106		2.22		9	87	118
Ethylbenzene	5.18		100	109	104		100	106	101		2.56		9	88	118
Methyl tert-butyl ether	2.62	J	100	106	104		100	109	107		2.77		38	79	127
Naphthalene	ND		100	98.7	98.7		100	97.9	97.9		0.890		13	80	129
Toluene	6.62		100	120	113		100	116	109		3.22		10	86	118
m,p-Xylene	10.5		200	223	106		200	221	105		1.30		9	88	119
o-Xylene	4.45	J	100	111	106		100	111	106		0.120		9	87	119
Xylenes,Total	15.0		300	334	106		300	332	105		0.827		9	87	119
Surr: 1,2-Dichloroethane-d4	ND		250	235	94.1		250	230	92.2		2.05		30	79	119
Surr: 4-Bromofluorobenzene	ND		250	250	99.9		250	251	100		0.288		30	89	110
Surr: Toluene-d8	ND		250	253	101		250	252	101		0.355		30	86	110

Qualifiers:
ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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Quality Control Report

ATC ASSOCIATES, INC.

014.25384.0585

Analysis: Volatile Organics:Method 8260B+MTBE+Naphthalene
Method: SW8260B

WorkOrder: 11041256
Lab Batch ID: R261645

Method Blank

RunID: GA_110506A-4046019 Units: ug/L
Analysis Date: 05/06/2011 13:15 Analyst: DN

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
11041256-06A	MW-3

Analyte	Result	Qual	Rep Limit	MDL
Benzene	ND		1.0	0.19
Ethylbenzene	ND		1.0	0.33
Methyl tert-butyl ether	ND		1.0	0.18
Naphthalene	ND		5.0	0.39
Toluene	ND		1.0	0.26
m,p-Xylene	ND		2.0	0.41
o-Xylene	ND		2.0	0.2
Xylenes,Total	ND		2.0	0.2
Surr: 1,2-Dichloroethane-d4	93.7		79-119	0
Surr: 4-Bromofluorobenzene	106.3		89-110	0
Surr: Toluene-d8	102.0		86-110	0

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: GA_110506A-4046017 Units: ug/L
Analysis Date: 05/06/2011 11:35 Analyst: DN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	20.0	20.2	101	20.0	20.9	105	3.6	9	87	118
Ethylbenzene	20.0	20.1	101	20.0	20.4	102	1.3	9	88	118
Methyl tert-butyl ether	20.0	20.9	105	20.0	21.7	108	3.4	38	79	127
Naphthalene	20.0	20.6	103	20.0	20.5	103	0.1	13	80	129
Toluene	20.0	18.6	92.9	20.0	18.9	94.5	1.7	10	86	118
m,p-Xylene	40.0	39.5	98.6	40.0	40.2	100	1.8	9	88	119
o-Xylene	20.0	20.5	102	20.0	21.0	105	2.6	9	87	119
Xylenes,Total	60	60	100	60	61	100	2.0	9	87	119
Surr: 1,2-Dichloroethane-d4	50.0	47.8	95.7	50.0	48.1	96.1	0.4	30	79	119
Surr: 4-Bromofluorobenzene	50.0	51.4	103	50.0	51.7	103	0.5	30	89	110
Surr: Toluene-d8	50.0	49.8	99.5	50.0	51.6	103	3.6	30	86	110

Qualifiers:
ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

ATC ASSOCIATES, INC.

014.25384.0585

Analysis: **Volatile Organics:Method 8260B+MTBE+Naphthalene** **WorkOrder:** **11041256**
Method: **SW8260B** **Lab Batch ID:** **R261645**

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: L0000025-02
RunID: GA_110506A-4046032 Units: ug/L
Analysis Date: 05/06/2011 20:37 Analyst: DN

Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Benzene	95.2	J	2000	2020	96.3		2000	2090	99.8		3.39		9	87	118
Ethylbenzene	ND		2000	1900	94.8		2000	2030	101		6.68		9	88	118
Methyl tert-butyl ether	ND		2000	21.5	1.08	*	2000	2110	105		196	*	38	79	127
Naphthalene	ND		2000	1900	95.0		2000	1930	96.3		1.31		13	80	129
Toluene	ND		2000	1820	91.2		2000	1930	96.5		5.60		10	86	118
m,p-Xylene	ND		4000	3800	94.9		4000	4010	100		5.39		9	88	119
o-Xylene	ND		2000	1980	99.2		2000	2120	106		6.43		9	87	119
Xylenes,Total	ND		6000	5780	96.3		6000	6130	102		5.75		9	87	119
Surr: 1,2-Dichloroethane-d4	ND		5000	4600	92.0		5000	4870	97.5		5.83		30	79	119
Surr: 4-Bromofluorobenzene	ND		5000	5220	104		5000	5140	103		1.51		30	89	110
Surr: Toluene-d8	ND		5000	5100	102		5000	5000	99.9		2.01		30	86	110

Qualifiers:
ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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Quality Control Report

ATC ASSOCIATES, INC.

014.25384.0585

Analysis: **Iron, Ferrous** **WorkOrder:** **11041256**
Method: **M3500-Fe B** **Lab Batch ID:** **R261230**

Method Blank

RunID: WET_110430O-4038003 Units: mg/L
Analysis Date: 04/30/2011 11:00 Analyst: TF

Analyte	Result	Qual	Rep Limit	MDL
Iron, Ferrous	ND		0.050	0.0445

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
11041256-01D	MW-PL-1
11041256-02D	MW-PL-2
11041256-03D	MW-PL-3
11041256-04D	IW-1
11041256-05D	DMW-4

Laboratory Control Sample (LCS)

RunID: WET_110430O-4038004 Units: mg/L
Analysis Date: 04/30/2011 11:00 Analyst: TF

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Iron, Ferrous	1.000	1.010	101.0		80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 11041256-01
RunID: WET_110430O-4038006 Units: mg/L
Analysis Date: 04/30/2011 11:00 Analyst: TF

Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Iron, Ferrous	ND	H	1	1.020	102.0		1	1.030	103.0		0.9756		20	80	120

Qualifiers:
ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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Quality Control Report

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Analysis: **Nitrate (as N)** **WorkOrder:** **11041256**
Method: **M4500-NO3 E** **Lab Batch ID:** **R261457**

Method Blank

RunID: WET_110504K-4042501 Units: mg/L
Analysis Date: 05/04/2011 14:35 Analyst: JZ

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
11041256-01D	MW-PL-1
11041256-02D	MW-PL-2

Analyte	Result	Qual	Rep Limit	MDL
Nitrate (As N)	ND		0.010	0.00719

Laboratory Control Sample (LCS)

RunID: WET_110504K-4042502 Units: mg/L
Analysis Date: 05/04/2011 14:35 Analyst: JZ

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Nitrate (As N)	0.1500	0.1570	104.7		90	110

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 11041184-01
RunID: WET_110504K-4042504 Units: mg/L
Analysis Date: 05/04/2011 14:35 Analyst: JZ

Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Nitrate (As N)	ND	H	0.15	0.1340	89.33		0.15	0.1390	92.67		3.663		20	80	120

Qualifiers:
ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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Quality Control Report

ATC ASSOCIATES, INC.

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Analysis: **Nitrate (as N)** **WorkOrder:** **11041256**
Method: **M4500-NO3 E** **Lab Batch ID:** **R261595**

Method Blank

RunID: WET_110506E-4045175 Units: mg/L
Analysis Date: 05/06/2011 10:05 Analyst: JZ

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
11041256-03D	MW-PL-3
11041256-04D	IW-1
11041256-05D	DMW-4

Analyte	Result	Qual	Rep Limit	MDL
Nitrate (As N)	ND		0.010	0.00719

Laboratory Control Sample (LCS)

RunID: WET_110506E-4045176 Units: mg/L
Analysis Date: 05/06/2011 10:05 Analyst: JZ

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Nitrate (As N)	0.1500	0.1490	99.33		90	110

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 11041256-03
RunID: WET_110506E-4045178 Units: mg/L
Analysis Date: 05/06/2011 10:05 Analyst: JZ

Analyte	Sample Result	Smp Qual	MS Spike Added	MS Result	MS % Rcvry	MS Qual	MSD Spike Added	MSD Result	MSD % Rcvry	MSD Qual	RPD	RPD Qual	RPD Limit	Low Limit	High Limit
Nitrate (As N)	0.06600	H	0.15	0.2140	98.67		0.15	0.2160	100.0		0.9302		20	80	120

Qualifiers:
ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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Quality Control Report

ATC ASSOCIATES, INC.

014.25384.0585

Analysis: **Sulfate by ASTM D516-90** **WorkOrder:** **11041256**
Method: **ASTM D516-90** **Lab Batch ID:** **R261616**

Method Blank

RunID: WET_110506H-4045653 Units: mg/L
Analysis Date: 05/06/2011 14:40 Analyst: TB

Analyte	Result	Qual	Rep Limit	MDL
Sulfate	ND		5.0	1.27

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
11041256-01D	MW-PL-1
11041256-02D	MW-PL-2
11041256-03D	MW-PL-3
11041256-04D	IW-1
11041256-05D	DMW-4

Laboratory Control Sample (LCS)

RunID: WET_110506H-4045657 Units: mg/L
Analysis Date: 05/06/2011 14:40 Analyst: TB

Analyte	Spike Added	Result	Percent Recovery	Qual	Lower Limit	Upper Limit
Sulfate	10.00	9.450	94.50		90	110

Sample Duplicate

Original Sample: 11041256-01
RunID: WET_110506H-4045655 Units: mg/L
Analysis Date: 05/06/2011 14:40 Analyst: TB

Analyte	Sample Result	DUP Result	Qual	RPD	RPD Limit
Sulfate	24.7	25.39		2.84	20

Qualifiers:
ND/U - Not Detected at the Reporting Limit
E - Estimated Value exceeds calibration curve
J - Estimated value between MDL and PQL
B - Analyte Detected In The Associated Method Blank
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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Sample Receipt Checklist
And
Chain of Custody

Version 2.1 - Modified February 11, 2011

6/15/2011 11:53:27 AM

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SPL ENVIRONMENTAL
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Sample Receipt Checklist

Workorder:	**11041256**	Received By:	**HJC**
Date and Time Received:	**4/30/2011 9:45:00 AM**	Carrier name:	**FedEx-Pri Saturday Del**
Temperature:	**4.0°C**	Chilled by:	**Water Ice**

		Yes	No		
1.	**Shipping container/cooler in good condition?**	☑	☐	Not Present	☐
2.	**Custody seals intact on shippping container/cooler?**	☑	☐	Not Present	☐
3.	**Custody seals intact on sample bottles?**	☐	☐	Not Present	☑
4.	**Chain of custody present?**	☑	☐		
5.	**Chain of custody signed when relinquished and received?**	☑	☐		
6.	**Chain of custody agrees with sample labels?**	☑	☐		
7.	**Samples in proper container/bottle?**	☑	☐		
8.	**Sample containers intact?**	☑	☐		
9.	**Sufficient sample volume for indicated test?**	☑	☐		
10.	**All samples received within holding time?** Ferrous Iron received out of hold	☐	☑		
11.	**Container/Temp Blank temperature in compliance?**	☑	☐		
12.	**Water - VOA vials have zero headspace?**	☑	☐	VOA Vials Not Present	☐
13.	**Water - Preservation checked upon receipt (except VOA*)?**	☑	☐	Not Applicable	☐

***VOA Preservation Checked After Sample Analysis**

SPL Representative: Jackson, Amy K.
Contact Date & Time: 5/3/2011 8:10:00 AM
Client Name Contacted: Chad Wash

Non Conformance Issues: All Ferrous Iron samples samples MW-PL-1, MW-PL-2, MW-PL-3 received out of hold.

Client Instructions: All samples were collected 4/29/11. A revised COC will be submitted.

Revised COC 4/13/11

SPL, Inc.
Analysis Request & Chain of Custody Record

SPL Workorder No. 323171

11041286 page 1 of 1

Client Name: ATC
Address: 400 NORTHEAST DR, SUITE Q
City COLUMBIA State SC Zip [redacted]
Phone/Fax: (803) 735-0003
Client Contact: CHAD L. WASH Email:
Project Name/No.: 01.25384.0585
Site Name: PANTRY #585
Site Location: ANDERSON, SC
Invoice To: Ph:

matrix: W=water S=soil O=oil A=air SL=sludge B=encore X=other
bottle: P=plastic G=glass A=amber glass V=vial X=other
size: 1=1 liter 4=4oz 40=vial 8=8oz 16=16oz 3=other
pres.: 0=HCl 2=HNO3 3=H2SO4 4=other

Requested Analysis

SAMPLE ID	DATE	TIME	comp	grab	matrix	bottle	size	pres.	Number of Containers	BTEX/NAPHTHALENE	1,2-DCA	LEAD	EDB	NITRATE/SULFATE	FERROUS IRON	DO		
MW-3	4/29/11	1200		Y	Y	Y	Y	Y	3	Y								
MW-5	"	1220		Y	Y	Y	Y	Y	3	Y								
MW-12	"	1300		Y	Y	Y	Y	Y	3	Y								
MW-17	"	1330		Y	Y	Y	Y	Y	3	Y								
MW-18	"	1400		Y	Y	Y	Y	Y	3	Y								
MW-PH-1	"	1430		Y	Y	Y	Y	Y	8	Y	Y	Y	Y	Y	Y	Y		
MW-PH-2	"	1500		Y	Y	Y	Y	Y	8	Y	Y	Y	Y	Y	Y	Y		
MW-PH-3	"	1530		Y	Y	Y	Y	Y	8	Y	Y	Y	Y	Y	Y	Y		
~~MW-PH-4~~ JW-1	"	1600		Y	Y	Y	Y	Y	8	Y	Y	Y	Y	Y	Y	Y		
DMW-4	"	1630		Y	Y	Y	Y	Y	8	Y	Y	Y	Y	Y	Y	Y		

Client/Consultant Remarks:

Laboratory remarks:

Intact? ☐ Y ☐ N
Ice? ☐ Y ☐ N
Temp:

Requested TAT
☐ 1 Business Day ☐ Contract
☐ 2 Business Days ☒ Standard
☐ 3 Business Days
☐ Other
Rush TAT requires prior notice

Special Reporting Requirements Results: Fax ☐ Email ☒ PDF ☐
Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☐

Special Detection Limits (specify):

PM review (initial):

1. Relinquished by Sampler: [signature] / ATC	date 4/29/11	time 0830	2. Received by:
3. Relinquished by:	date	time	4. Received by:
5. Relinquished by:	date	time	6. Received by Laboratory:

☐ 8880 Interchange Drive
Houston, TX 77054 (713) 660-0901

☐ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

☐ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

SPL, Inc.
Analysis Request & Chain of Custody Record

SPL Workorder No. 317931
11041256
page 1 of 1

Client Name: ATC
Address: 400 NORTHEAST DR, SUITE Q
City: COLUMBIA State: SC Zip: 29203
Phone/Fax: (803) 735-0003
Client Contact: CHAD L. WASH Email: CHAD.WASH@ATCASSOCIATES.COM
Project Name/No.: 614.25384.0585
Site Name: PANTRY # 585
Site Location: ANDERSON, SC
Invoice To: Ph:

matrix: W=water S=soil O=oil A=air SL=sludge E=encore X=other
bottle: P=plastic G=glass A=amber glass V=vial O=other
size: 1=1 liter 4=4oz 40=vial 8=8oz 16=16oz O=other
pres.: 1=HCl 2=HNO3 3=H2SO4 X=other

Requested Analysis

SAMPLE ID	DATE	TIME	comp	grab	matrix	bottle	size	pres.	Number of Containers	BTEX/MTBE	1,2-DCA	LEAD	EDB	NITRATE/SULFATE	FERROUS IRON	O-OXYGENATES		
MW-PL-1	4/28/11	0800		X	X	X	X	X	8	X	X	X	X	X	X	X		8
MW-PL-2	"	0830		X	X	X	X	X	8	X	X	X	X	X	X	X		8
MW-PL-3	"	0900		X	X	X	X	X	8	X	X	X	X	X	X	X		8
IW-1	"	1000		X	X	X	X	X	8	X	X	X	X	X	X	X		8
DMW-4	"	1030		X	X	X	X	X	8	X	X	X	X	X	X	X		8
MW-3	"	1100		X	X	X	X	X	3	X								3
MW-5	"	1200		X	X	X	X	X	3	X								3
MW-12	"	1230		X	X	X	X	X	3	X								3
~~KMO~~ MW-17	"	1245		X	X	X	X	X	3	X								3
~~KMO~~ MW-18	"	1330		X	X	X	X	X	3	X								3

Client/Consultant Remarks:

Laboratory remarks: CS ON COOLER RU-107 (13) RL-34 (TH2), (3W) PLCS, (D)

Intact? Y N
Ice? Y N
Temp: 4.0

Requested TAT
- ☐ 1 Business Day
- ☐ 2 Business Days
- ☐ 3 Business Days
- ☐ Contract
- ☒ Standard
- ☐ Other
- Rush TAT requires prior notice

Special Reporting Requirements Results: Fax ☐ Email ☒ PDF ☐
Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☐

Special Detection Limits (specify):

PM review (initial):

1. Relinquished by Sampler: ATC	date 4/28/11	time 1600	2. Received by: Fedex	
3. Relinquished by: Fedex	date 04/30/11	time 09:00	4. Received by:	
5. Relinquished by:	date 04/30/11	time 09:45	6. Received by Laboratory:	

☐ 8880 Interchange Drive
Houston, TX 77054 (713) 660-0901

☐ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

☐ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

Ex. Express **US Airbill**

FedEx Tracking Number 8731 2639 4263

[redacted] portion can be removed for Recipient's records.

1/28/11 FedEx Tracking Number 873126394263

CNAD L. WASH Phone 803 735-0003

ATC

400 NORTHEAST DR, SUITE Q Dept./Floor/Suite/Room

COLUMBIA State SC ZIP 29203

[redacted]ernal Billing Reference

SHIPPING AND RECEIVING Phone 337 237-4775

SOUTHERN PETROLEUM LABS

[redacted]00 AMBASSADOR CAFFERY PKWY

[redacted]liver to P.O. boxes or P.O. ZIP codes.

[redacted]r the HOLD location address or for continuation of your shipping address.

HOLD Weekday
FedEx location address REQUIRED. NOT available for FedEx First Overnight.

[redacted]

[redacted]OTT State LA ZIP 70583-5300

0422489092

8731 2639 4263

[redacted] Recipient's Copy

[redacted]

4a Express Package Service * To most locations. *Packages up to 150 lbs.*

[redacted]

☐ FedEx First Overnight — Earliest next business morning delivery to select locations.*

☐ FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

4b Express Freight Service ** To most locations. *Packages over 150 lbs.*

☐ FedEx 1Day Freight — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected. FedEx 1Day Freight Booking No.

☐ FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☐ FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

☐ FedEx Envelope* ☐ FedEx Pak* Includes FedEx Small Pak and FedEx Large Pak. ☐ FedEx Box ☐ FedEx Tube ☒ Other

6 Special Handling and Delivery Signature Options

[redacted]

☐ No Signature Required — Package may be left without obtaining a signature for delivery.

☐ Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*

☐ Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods?

One box must be checked.

☐ No ☐ Yes — As per attached Shipper's Declaration. ☐ Yes — Shipper's Declaration not required. ☐ Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

☐ Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below.

Obtain recip. Acct. No. ☐

☐ Sender — Acct. No. in Section 1 will be billed. ☒ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

[redacted]

Total Packages 1 Total Weight 46 lbs. [redacted] Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

605

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MEMORANDUM

TO: Beverly McLeod, Project Manager
Solid Waste, Rad Waste, Mining and UST Enforcement Section
Division of Compliance and Enforcement
Bureau of Land and Waste Management

FROM: Arthur Shrader, Hydrogeologist
Assessment Section
UST Management Division

UST DOCKET 27 Jun

THRU: Chris Doll, P.G., Manager
Assessment Section
UST Management Division

DATE: June 14, 2011

SUBJECT: Incomplete Groundwater Assessment Report received May 31, 2011
ATC Associates, Incorporated

SITE: 81 Food Mart, Former Pantry #585, 502 East Greenville St, Anderson, SC
UST Permit # 12458
Enforcement Referral dated December 6, 2010

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed the referenced report from ATC Associates, Incorporated received on May 31, 2011. Our comments are as follows:

Item 1. The report did not include geological cross sections that included the newly installed shallow and deep monitoring wells,

Item 2. Monitoring Well Groundwater Data, Figure 1, did not include the well depth and screen interval for all the wells associated with the release at this facility, and

Item 3. The laboratory detection for EDB was too high (0.05 ppb vs a required 0.02 ppb by *Analytical Methodology for Groundwater and Soil Assessment Guidelines* dated August 24, 2005).

Chad Wash, the ATC project manager, was notified of the report deficiencies on May 31, 2011 by e-mail. Copies of the e-mails are attached for your reference.

enc: E-mails from Arthur Shrader to Chad Wash dated 5/31/11 1:11 PM and 6/1/2001 2:37 PM

cc: ATC Associates, Contractor Certification file
Technical file

From: Art A. Shrader
To: Wash, Chad
CC: Dee Deberry; Fred Lyke; McLeod, Beverly; Miner, Read
Date: 5/31/2011 1:11 PM
Subject: Assessment Report for Pantry #585 (UST Permit # 12458)
Attachments: 12458 didnt.pdf

Chad,

In the future for releases that are in the Enforcement Section, please send the report directly to the Enforcement Section. I have copied Beverly McLeod on this e-mail so she known a report was received.

Please update the geological cross sections for this report to include the new wells and send those to me as soon a possible.

I'm disappointed the on site wells with product were not gauged. Please see the attached. I guess you got caught up in trying to get access from Chris Moorhead and this got missed in the shuffle.

I'm guessing Read Miner will send a directive to gauge all wells in the near future to get current product data. I would suspect based on the size of the product he might bid out the product recovery vs a series of AFVR events.

Art

From: Art A. Shrader
To: Wash, Chad
CC: Dee Deberry; Fred Lyke; Miner, Read
Date: 6/1/2011 2:37 PM
Subject: Fwd: 12458
Attachments: 12458

Chad,

Please see the attached comments from Read Miner.

If you could submit a revised table with depth to product, screens, etc. along with the cross sections that would be what we need.

Please let me know how you would like to address the EDB lab detection limits problem.

If you want to resample for EDB, I would suggests that you gauge the existing wells for product and include all in a revised table.

I would be willing to do a cost addendum for costs to gauge all wells that have historically had product and create a revised potentiometric map and updated table.

I look forward to hearing from you.

Art

Art A. Shrader - 12458

From: Read Miner
To: Shrader, Art A.
Date: 6/1/2011 2:02 PM
Subject: 12458

In addition to the cross sections that you already asked for, I suggest requesting

- an updated table 1 that includes all of the monitoring wells for 12458 (well depths and screened intervals).

- Be aware that the EDB samples did not meet the required 0.02 ppb reporting limit

BM
12/13/10

D H E C

PROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

UNDERGROUND STORAGE TANK MANAGEMENT DIVISION
BUREAU OF LAND AND WASTE MANAGEMENT

2600 Bull Street
Columbia, SC 29201
Telephone (803) 898-4350
Fax (803) 898-4330

28 tech
UST DOCKET

MEMORANDUM

To: Cindy Williams, Manager
Enforcement Section

Date: December 6, 2010

Re: Enforcement Referral

Enf. ID #10-0342-UST
Resolved 6-27-11

Type: Technical (Scope of Work)

UST Permit #: 12458

Facility Name: 81 Food Mart (Former Pantry #585), 1502 East Greenville, St., Anderson, SC

Owner/Operator: (when the release is reported)
Prent Puzak
PO Box 1410, Sanford, NC 27331
Phone # (800) 476-7574 x 5403

Regulatory Citation: Section 280.65 Investigation for soil and ground-water cleanup of the South Carolina Underground Storage Tank Regulations, R. 61-92

Requested Action/Information: Requested a Tier II Assessment for release reported on February 2010. Assessment to be conducted with SUPERB Account money.

Additional Comments: Directed to define the product and plume was due on September 30 after extensions. Sent certified Letter on October 13, 2010. Have not received report to date.

Are there any Tank Ownership Issues? : ____Yes __X__No If yes please explain.

Are there any other persons being dealt with other than the tank owner? ____Yes __X__No

Referred By: Carth Shd Date: 12/6/10

Section Manager's Approval: [signature] Date: 12-06-2010

Division Director's Approval: David Y Dr Date: 12/8/10

Attach Copy of NOV Letter

Cc: ATC Columbia Contractor Certification File

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

UST DOCKET

OCT 13 2010 19 tel

CERTIFIED MAIL
91 7108 2133 3934 4767 6772

MR BRENT PUZAK
PANTRY INC
PO BOX 1410
SANFORD NC 27331-1410

Re: **Notice of Alleged Violation**
81 Food Mart (Former Pantry #585), 1502 East Greenville Street, Anderson, SC
UST Permit #12458; CA #38230: MWA #UMW-23466
Release reported November 10, 1992
Tier II Assessment Plan and Cost Proposal received January 28, 2010
Assessment Report Directive dated February 10, 2010
Anderson County

Dear Mr. Puzak:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control directed you in February 2010 to complete an assessment to define the extent of the plume with the report due in May 2010. A copy of the directive is enclosed for your reference. An extension was granted in June 8, 2010 until September 30, 2010 at the request of your contractor. To date the required report has not been received. In accordance with Section 280.65 of the South Carolina Underground Storage Tank Regulations, the assessment must be conducted as chemicals of concern are above the risk-based-screening levels.

Implementation of this scope of work should proceed upon receipt of this correspondence. **Please submit the report on or before November 30, 2010. Should you not submit th before this date, this office will initiate further enforcement action.**

Bendy 12/c
Note ATC (Dee Debery) did not get seiom until NAV about access.
AS

On all correspondence regarding this site and scope of work, please referen number12458. If you have any questions concerning this correspondence, please con 896-6669, fax me at (803) 896-6245, or e-mail me at shradeaa@dhec.sc.gov.

Sincerely,

Arthur Shrader, Hydrogeologist
Assessment Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc.: UST Assessment Directive dated February 10, 2010

cc: ATC Associates, 400 Northwest Dr., STE Q, Columbia, SC 29203 (with enc.)
ATC Columbia Contractor Certification File (with enc.)
Technical File (without enc.)

Art A. Shrader - FW: Access agreement #585 Anderson, SC

From: "Fred Lyke" <fred.lyke@atcassociates.com>
To: "Art A. Shrader" <Shradeaa@dhec.sc.gov>
Date: 11/30/2010 2:02 PM
Subject: FW: Access agreement #585 Anderson, SC
CC: "Dee Deberry" <Dee.Deberry@atcassociates.com>

Art,
Please read the email trail below regarding the status of offsite access at the Pantry 585 Anderson site. As soon as we receive the signed letter (for borings only, no permanent monitor well installations) I will let you know. Sounds like we will be able to schedule and have results by the time you come back from vacation.

Fred Lyke, P.G. | Branch Manager and Senior Geologist|
ATC Associates Inc.| Columbia, SC
803-735-0003 office | 803-767-0826 mobile

400 Northeast Drive, Unit Q | Columbia, SC 29203
803-735-0003 tel | 803-735-0443 fax | www.atcassociates.com
Fred.Lyke@atcassociates.com

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From: Dee Deberry
Sent: Tuesday, November 30, 2010 1:52 PM
To: Jimmy Williams
Cc: Fred Lyke; brent.puzak@thepantry.com
Subject: RE: Access agreement #585 Anderson, SC

Sounds like a plan,

Thank you,
Dee

Dee DeBerry | **ATC Associates Inc.** | **Columbia, SC**
803-735-0003 office | 803-920=2625 mobile

400 Northeast Drive | Suite Q | Columbia, South Carolina 29203
803-735-0003 tel | 803-735-0443 fax | www.atcassociates.com

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From: Jimmy Williams [mailto:commercialholdings@yahoo.com]
Sent: Tuesday, November 30, 2010 1:50 PM
To: Dee Deberry
Subject: Re: Access agreement #585 Anderson, SC

Dee,

We will fax you the authorization within the next few days. Also, we would like to receive a report or status of the borings.

Thank You,
Jimmy Williams
Commercial Holdings
1033 Kensington Lake Dr.
Easley, SC 29642

864.269.7590 office
864.923.3675 mobile
864.220.1403 fax

From: Dee Deberry <Dee.Deberry@atcassociates.com>
To: Jimmy Williams <commercialholdings@yahoo.com>
Cc: Fred Lyke <fred.lyke@atcassociates.com>; brent.puzak@thepantry.com
Sent: Tue, November 30, 2010 12:46:47 PM
Subject: RE: Access agreement #585 Anderson, SC

Jimmy,

Fred Lyke in our office spoke with Art Shrader-project manager at DHEC this morning regarding your concerns.

Mr.. Shrader stated he will accept the report of findings the end of this month, which means the borings will need to be conducted next week 12.6.10 or the week of 12.13.10 at the latest.

Ten borings may be necessary, but if we can stop at four-six, we will. The amount will depend on the findings, but ***up to ten*** is an estimate. These borings will be grouted and finished at ground surface with asphalt patch to match surrounding parking lot

We will schedule the field activities, upon receipt of your authorization to proceed. Please sign site access letter and return as soon as possible so that we can schedule site activities.

I will be in the office the rest of the day and can be reached at 866.735.0003 if you have any questions.

Thank you,
Dee

Dee DeBerry | **ATC Associates Inc.** | **Columbia, SC**
803-735-0003 office | 803-920=2625 mobile

400 Northeast Drive | Suite Q | Columbia, South Carolina 29203
803-735-0003 tel | 803-735-0443 fax | www.atcassociates.com

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prohibiited and may be unlawful. If you are not the intended recipient, please notify the sender by replying to this message and then delete it from your computer.

From: Jimmy Williams [mailto:commercialholdings@yahoo.com]
Sent: Monday, November 29, 2010 4:44 PM
To: Dee Deberry; Fred Lyke
Cc: brent.puzak@thepantry.com
Subject: Re: Access agreement #585 Anderson, SC

Also, is ten borings necessary?

Jimmy Williams
Commercial Holdings
1033 Kensington Lake Dr.
Easley, SC 29642

864.269.7590 office
864.923.3675 mobile
864.220.1403 fax

From: Dee Deberry <Dee.Deberry@atcassociates.com>
To: Fred Lyke <fred.lyke@atcassociates.com>
Cc: brent.puzak@thepantry.com; commercialholdings@yahoo.com
Sent: Mon, November 29, 2010 4:10:40 PM
Subject: RE: Access agreement #585 Anderson, SC

I spoke with Mr. Williams and he confirmed that they are not ready to make a commitment to allow access for boring activities in relation to the above referenced site.

Mr. Williams did refer to a meeting to be held in a week, in which the access agreeement will be addressed.

I explained to Mr. Williams that further contact and correspondence will be directed from the project manager at SCDHEC and due to the activity required ,the project manager will assign their state lead contractor to perform any activities related to this scope of work.

Dee DeBerry | **ATC Associates Inc.** | **Columbia, SC**
803-735-0003 office | 803-920=2625 mobile

400 Northeast Drive | Suite Q | Columbia, South Carolina 29203
803-735-0003 tel | 803-735-0443 fax | www.atcassociates.com

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From: Fred Lyke

Sent: Monday, November 29, 2010 1:42 PM
To: Dee Deberry
Subject: FW: Access agreement

Fred Lyke, P.G. | Branch Manager and Senior Geologist|
ATC Associates Inc.| Columbia, SC
803-735-0003 office | 803-767-0826 mobile

400 Northeast Drive, Unit Q | Columbia, SC 29203
803-735-0003 tel | 803-735-0443 fax | www.atcassociates.com
Fred.Lyke@atcassociates.com

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From: Jimmy Williams [mailto:commercialholdings@yahoo.com]
Sent: Thursday, November 04, 2010 2:46 PM
To: Fred Lyke
Subject: Re: Access agreement

Fred,

We will review and discuss... not ready to make a commitment yet.

Thank You,
Jimmy Williams
Commercial Holdings
1033 Kensington Lake Dr.
Easley, SC 29642

864.269.7590 office
864.923.3675 mobile
864.220.1403 fax

From: Fred Lyke <fred.lyke@atcassociates.com>
To: commercialholdings@yahoo.com
Sent: Thu, November 4, 2010 2:32:59 PM
Subject: FW: Access agreement

Mr. Williams,
I would like to schedule boring activities next week if possible. Please call with any questions. Thank you for your help in this matter.

Fred Lyke, P.G. | Branch Manager and Senior Geologist|
ATC Associates Inc.| Columbia, SC
803-735-0003 office | 803-767-0826 mobile

---

400 Northeast Drive, Unit Q | Columbia, SC 29203
803-735-0003 tel | 803-735-0443 fax | www.atcassociates.com
Fred.Lyke@atcassociates.com

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From: Fred Lyke
Sent: Friday, October 29, 2010 3:27 PM
To: 'commercialholdings@yahoo.com'
Subject: Access agreement

Mr. Williams,
This should be much clearer. Please call if any questions. Thank you.

Fred Lyke, P.G. | Branch Manager and Senior Geologist|
ATC Associates Inc.| Columbia, SC
803-735-0003 office | 803-767-0826 mobile

---

400 Northeast Drive, Unit Q | Columbia, SC 29203
803-735-0003 tel | 803-735-0443 fax | www.atcassociates.com
Fred.Lyke@atcassociates.com

PLEASE NOTE: This message, including any attachments, may include privileged, confidential and/or inside information. Any distribution or use of this communication by anyone other than the intended recipient is strictly prohibited and may be unlawful. If you are not the intended recipient, please notify the sender by replying to this message and then delete it from your computer.

From: Art A. Shrader
To: Wash, Chad
CC: Fred Lyke
Date: 10/11/2010 8:21 AM
Subject: Re: FW: Pantry #585 - UST #12458
Attachments: 12458 Define.pdf

Chad,

I understood that Pantry would get property access for the work in Anderson.
While the initial report was due May 2010, I had extended the due date to September 30th because of the access problems. I was by the site on Friday and did not see any new wells to define the plume.

I am concerned since there were several wells with free product on site and the plume has migrated off site. I plan on sending a Notice of Apparent Violation later this week.

Art

>>> "Chad Wash" <chad.wash@atcassociates.com> 6/8/2010 1:26 PM >>>

Art,

Did you get this e-mail (attachment) on 81 Food Mart? Just wanted to be sure...just talked w/ Fred and Pantry will contact you soon on the State lead confirmation.

Thanks,
Chad

From: Chad Wash
Sent: Tuesday, May 04, 2010 8:30 AM
To: 'Art A. Shrader'
Cc: Fred Lyke; 'lyke89@atc-enviro.com'
Subject: Pantry #585 - UST #12458

We tried to access the property and spoke with the owner on more than one occasion. The property access document is attached (signed - access denied). Please contact me with any questions you may have.

Thanks,
Chad

Chad L. Wash | ATC Associates Inc. | Columbia, SC
(803) 735-0003 direct | (803) 760-8797 mobile

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

FEB 10 2010

UST DOCKET 17tech

MR BRENT PUZAK
PANTRY INC
PO BOX 1410
SANFORD NC 27331-1410

Re: Assessment Report Directive
81 Food Mart (Former Pantry #585), 1502 East Greenville Street, Anderson, SC
UST Permit #12458; CA #38230: MWA #UMW-23466
Release reported November 10, 1992
AFVR and Tier II Report received March 31, 2009
Tier II Assessment Plan and Cost Proposal received January 28, 2010
Anderson County

Dear Mr. Puzak:

The Underground Storage Tank (UST) Division of the South Carolina Department of Health and Environmental Control (SCDHEC) recognizes your commitment to continue work at this site utilizing your own contractor. The UST Division has reviewed the referenced Tier II Assessment Plan and cost agreement submitted by ATC Associates Columbia. The assessment should be conducted in accordance with the Tier II Assessment guidance document and must be conducted in compliance with all applicable regulations. All shallow wells are to be installed with screen intervals that bracket the water table. The Tier II assessment document and appendices may be obtained from our website at http://www.scdhec.gov/environment/lwm/html/ust_guidance_docs.htm.

Assessment activities at the site should begin immediately upon receipt of this letter. Cost agreement number 38230 has been approved for the amount shown on the enclosed cost agreement form. Please be aware that the February 1, 2006 SUPERB Allowable Costs sheet states that "If vertical and horizontal extent of chemicals of concern are not fully defined by this tier report, additional mobilizations may not be approved by the Department." Therefore, equipment mobilization costs have not been approved for this scope of work. **Please contact the department prior to well installation for concurrence regarding the final well locations**. No-purge sampling is required for previously installed monitoring wells (except deep wells) where the screens bracket the water table.

Please note the following adjustments to the submitted cost agreement:

- Equipment mobilizations were deleted, as the plume was not previously defined.
- Personnel mobilizations were reduced from five to four.
- Monitoring well installation has been changed from hand auger to drilled (Item 9.A. to 9.B.). One shallow well has been added. This well should be installed in the impacted area south of MW-12 so the plume can be modeled.
- Deep monitoring well has been approved for 63 feet **(if necessary)** for a telescoping well adjacent to the added shallow well to ensure the vertical extent of the plume is defined. Please note that the screens of the permanent monitoring wells must bracket the water table, and all monitoring well locations must be technically justified or installation costs will not be approved. Field screening points converted to wells will be compensated at the permanent well installation rate.
- BTEX, naphthalene and MtBE laboratory analyses has been increased to include analyses of MW-6, MW-10, MW-11, MW-12, MW-17 and MW-18 associated with KMO #117 (UST Permit # 00707).

- The comprehensive survey should include the monitoring wells associated with former Pantry #585 and KMO 117 (UST Permit #00707).

ATC Columbia office can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Please note that all applicable South Carolina certification requirements apply to the laboratory services, well installation, and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

A Report of Findings and the invoice are due within 90 days from the date of this letter. An interim well drilling invoice may be submitted for this scope of work. If the invoice and completed report are 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. Please note, if unnecessary dilutions are completed resulting in reporting limits of individual Chemicals of Concern (CoC) in excess of Risk-Based Screening Levels (RBSLs), the Department may deny payment for any non-detect analysis where the reporting limit exceeds the RBSL. The UST Division encourages the use of 'J' values as necessary.

Please note that you and/or your contractor are responsible for obtaining all off-site access agreements and/or encroachment permits necessary for this scope of work.

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 the Division is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the Department for the cost to be paid. 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. Further, SCDHEC reserves the right to question and/or reject costs if deemed unreasonable. The SCDHEC reserves the right to audit project records at any time during the project or after completion of work.

The Department 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 COC concentrations based on laboratory analysis are below Risk Based Screening Levels (RBSLs), 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 regarding this site and scope of work, please reference UST Permit number12458. If you have any questions concerning this correspondence, please contact me at (803) 896-6669, fax me at (803) 896-6245, or e-mail me at shradeaa@dhec.sc.gov.

Sincerely,

Arthur Shrader, Hydrogeologist
Assessment Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc.: Approved Cost Agreement
Monitoring Well Approval (MWA)(copy)

cc: ATC Associates, 400 Northwest Dr., STE Q, Columbia, SC 29203 (with enc.)
Technical File (with enc.)

From: Art A. Shrader
To: Wash, Chad
CC: Fred Lyke
Date: 10/11/2010 8:21 AM
Subject: Re: FW: Pantry #585 - UST #12458
Attachments: 12458 Define.pdf

Chad,

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While the initial report was due May 2010, I had extended the due date to September 30th because of the access problems. I was by the site on Friday and did not see any new wells to define the plume.

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From: Chad Wash
Sent: Tuesday, May 04, 2010 8:30 AM
To: 'Art A. Shrader'
Cc: Fred Lyke; 'lyke89@atc-enviro.com'
Subject: Pantry #585 - UST #12458

We tried to access the property and spoke with the owner on more than one occasion. The property access document is attached (signed - access denied). Please contact me with any questions you may have.

Thanks,
Chad

Chad L. Wash | ATC Associates Inc. | Columbia, SC
(803) 735-0003 direct | (803) 760-8797 mobile

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

Beverly
Since you were not around I sent the out to keep the assessment moving. I thought ATC would need this to talk to the bad ones for permission to install wells.
AC

MR BRENT PUZAK
PANTRY INC
PO BOX 1410
SANFORD NC 27331-1410

JAN 14 2011

Re: Review of Screening Data
81 Food Mart (Former Pantry #585), 1502 East Greenville Street, Anderson, SC
UST Permit #12458; CA #38230: MWA #UMW-23466
Release reported November 10, 1992
Tier II Assessment Plan and Cost Proposal received January 28, 2010
Assessment Report Directive dated February 10, 2010
Screening Data received January 5, 2011
Anderson County

Dear Mr. Puzak:

The Underground Storage Tank (UST) Division of the South Carolina Department of Health and Environmental Control (SCDHEC) recognizes your commitment to continue work at this site utilizing ATC Associates. The UST Division has reviewed the referenced screening data and agrees monitoring wells need to define the horizontal and vertical extent of the plume. An intermediate well with a screen between 15 to 20 feet and deep pit cased well should be installed adjacent to monitoring well KMO-18. Additionally shallow monitoring wells with a 10-foot screen that brackets the water table should be installed in the vicinity of screening points FS-4, FS-7 and approximately 90 feet south of monitoring well KMO MW-12. In addition to monitoring wells associated with the referenced site, please sample the following monitoring wells associated with KMO # 117 (UST Permit #00707) KMO MW-3, KMO MW-5, KMO MW-12, KMO MW-17, and KMO MW-18.

An addendum to cost agreement number 38243 and revision to Monitoring Well Approval number UMW-23466 will be provided for the costs associated with the field screening activities, well installation and groundwater sampling of the additional wells.

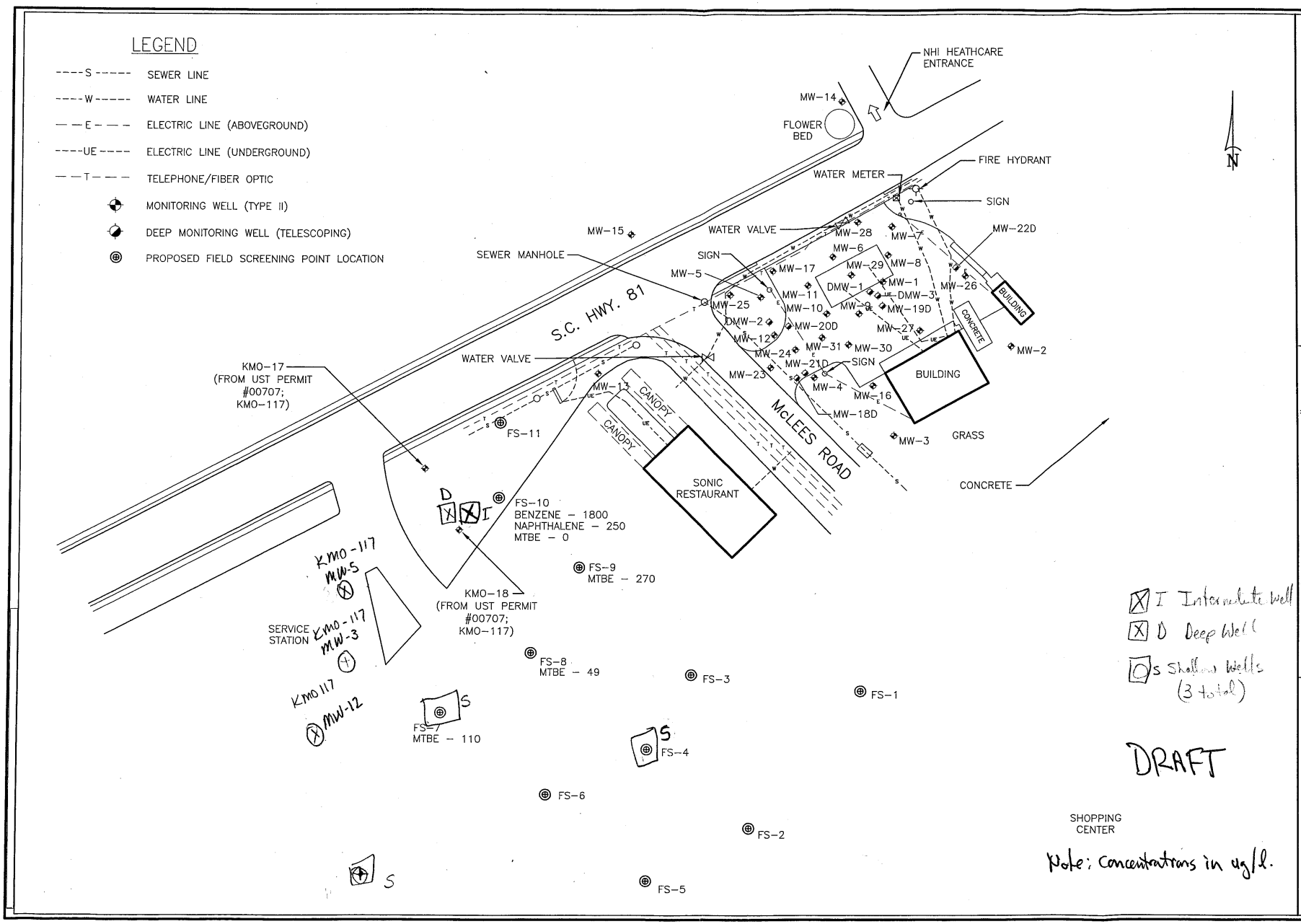
On all correspondence regarding this site and scope of work, please reference UST Permit number12458. If you have any questions concerning this correspondence, please contact me at (803) 896-6669, fax me at (803) 896-6245, or e-mail me at shradeaa@dhec.sc.gov.

Sincerely,

Arthur Shrader, Hydrogeologist
Assessment Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc.: Groundwater Field Screening Map with Approximate Well Locations

cc: Ms. McLeod, Enforcement Section (with enc.)
Ms. Fuller Ken Moorhead Oil Company, Inc. PO Box 2587, Anderson, SC 29622 (without enc.)
ATC Associates, 400 Northwest Dr., STE Q, Columbia, SC 29203 (with enc.)
Technical File (with enc.)



ATC ASSOCIATES INC.
Columbia, South Carolina 29203 (803) 735-0003 FAX (803) 735-0443

TITLE
UST PERMIT #12458
GROUNDWATER FIELD SCREENING MAP
FORMER PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

CAD FILE	TYPE CODE	PREP. BY	REV. BY	SCALE	DATE	PROJECT NO.
1253237.dwg		JW		1" = 60'	12-30-2010	89.25384.0585

NOTES:

MEMORANDUM

TO: Beverly McLeod, Project Manager
Solid Waste, Rad Waste, Mining and UST Enforcement Section
Division of Compliance and Enforcement
Bureau of Land and Waste Management

FROM: Arthur Shrader, Hydrogeologist
Assessment Section
UST Management Division

THRU: Chris Doll, P.G., Manager
Assessment Section
UST Management Division

DATE: June 14, 2011

SUBJECT: Incomplete Groundwater Assessment Report received May 31, 2011
ATC Associates, Incorporated

SITE: 81 Food Mart, Former Pantry #585, 502 East Greenville St, Anderson, SC
UST Permit # 12458
Enforcement Referral dated December 6, 2010

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed the referenced report from ATC Associates, Incorporated received on May 31, 2011. Our comments are as follows:

Item 1. The report did not include geological cross sections that included the newly installed shallow and deep monitoring wells,

Item 2. Monitoring Well Groundwater Data, Figure 1, did not include the well depth and screen interval for all the wells associated with the release at this facility, and

Item 3. The laboratory detection for EDB was too high (0.05 ppb vs a required 0.02 ppb by *Analytical Methodology for Groundwater and Soil Assessment Guidelines* dated August 24, 2005).

Chad Wash, the ATC project manager, was notified of the report deficiencies on May 31, 2011 by e-mail. Copies of the e-mails are attached for your reference.

cc: ATC Associates, Contractor Certification file
Technical file

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Engineers

400 Northeast Drive, Unit O
Columbia, SC 29203
www.atcassociates.com
803-735-0003
Fax 803-735-0443

February 15, 2010

Commercial Holdings, LLC
1033 Kensington Lake Drive
Easley, South Carolina 29642

Re: Environmental Assessment
Former Pantry #585 (81 Food Mart)
1502 East Greenville Street
Anderson, South Carolina
Anderson County
UST Permit #12458

Dear property owner:

ATC Associates Inc. (ATC) is conducting an Environmental Assessment at the Former Pantry #585 (81 Food Mart) store on behalf of the South Carolina Department of Health and Environmental Control (SCDHEC). In order to conduct the assessment, the installation of a groundwater monitor well on your property (Parcel# 148-08-02-001) located southwest of the Pantry #585 Store, is necessary.

You, as the property owner, will not be held responsible or held liable for any damages or expenses for injury to persons or property while ATC is on the premises. SCDHEC has requested the completion of this assessment in a timely manner and believes it is in your best interest to allow the monitor well installation. If you have any questions regarding SCDHEC authorization to conduct these activities, please contact Mr. Arthur Shrader, SCDHEC Project Manager, at (803) 896-6669 and reference UST Permit #17885.

Please provide your authorization and approval by signing below and return the signature page via US mail, fax, and/or e-mail as soon as possible. Acknowledgment of this form is required by SCDHEC. Denial of site access will be forwarded to SCDHEC for their pursuit of site access.

29-Tech

February 15, 2010
Page 2 of 2

If you have any questions or would like to further discuss any aspect of this site access request, please contact me at (803) 735-0003 or Mr. Arthur Shrader, SCDHEC Project Manager, at (803) 896-6669.

Sincerely,
ATC Associates Inc.

Chad L. Wash
chad.wash@atcassociates.com
(803) 735-0003

Access approved

Access denied

Jimmy Williams
Commercial Holdings, LLC

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment

AUG 0 2 2011

BRENT PUZAK
PANTRY INC
PO BOX 1410
SANFORD NC 27331-1410

UST DOCKET
30 tech

Re: **AFVR Directive**
81 Food Mart, 1502 E Greenville Hwy., Anderson, SC
UST Permit #12458; CA #42089
Release reported November 10, 1992
Assessment Report received June 16, 2011
Anderson County

Dear Mr. Puzak:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (SCDHEC) recognizes your commitment to continue work at this site utilizing ATC Associates.

To recover free phase petroleum, and in accordance with Section 280.64 of the South Carolina Underground Storage Tank Control Regulations, implementation of three Aggressive Fluid and Vapor Recovery (AFVR) events on monitoring wells MW-10, MW-27, and MW-30 as outlined in the UST Quality Assurance Program Plan (QAPP) is necessary. Each event should be spaced about 30 days apart. A copy of SCDHEC QAPP for the Underground Storage Tank Division is available at http://www.dhec.sc.gov/environment/lwm/html/ust.htm.

The AFVR Report should be submitted within 120 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.

Cost Agreement #42089 has been approved in the amount shown on the enclosed cost agreement. ATC Associates can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. If the invoice and completed report are 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.

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 is obtained from the UST Management Division. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be preapproved by the Division for the cost to be paid. The 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 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 concerning this site, please reference UST Permit #12458 and CA #42089. If you have any questions, please contact me at (803) 896-6584 or by e-mail at minerrs@dhec.sc.gov.

Sincerely,

Read S. Miner

Read S. Miner, P.G., Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: ✓Technical (with enclosure)
ATC Associates, 400 Northeast Dr., Ste. Q, Columbia, SC 29203 (with enclosure)

Approved Cost Agreement 42089

Facility: 12458 81 FOOD MART
MINERRS
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB						
		A	EQUIPMENT	3.0000	575.00	1,725.00
		B	PERSONNEL	3.0000	290.00	870.00
17 DISPOSAL						
		A1	WASTEWATER - PURGING/SAMPLING	3,000.0000	0.80	2,400.00
19 RPT/PROJECT MNGT & COORDINATIO						
		PCT	PERCENT	0.1500	14,835.00	2,225.25
23 EFR						
		A	8 HOUR EVENT	3.0000	3,000.00	9,000.00
		C	OFF GAS TREATMENT	24.0000	35.00	840.00
				Total Amount		17,060.25

ATC ASSOCIATES INC.
Engineering Individual Solutions

400 Northeast Drive, Unit Q
Columbia, South Carolina 29203
803-735-0003
Fax 803-735-0443
www.atcassociates.com

November 20, 2011

UST
NOV 28 2011
PROGRAM

Mr. Read S. Miner, Hydrogeologist
SCDHEC – UST Program
Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201-1708

UST
31 tech
DOCKETING

Re: Aggressive Fluid Vapor Recovery Activities
Pantry #585
1502 E Greenville Hwy
Anderson, South Carolina
UST Permit #12458

Dear Mr. Miner:

As per your directive letter dated August 4, 2011, ATC Associates Inc. (ATC) scheduled three aggressive fluid vapor recovery (AFVR) events at Pantry #585. On September 1, 2011, ATC personnel oversaw AFVR activities at Monitor Wells MW-10 and MW-30 by Versatile Environmental Resource Company (VERCO) personnel at the site. This event was conducted for eight hours at these two wells simultaneously with off-gas treatment, and approximately 923 gallons of liquid were removed during this event. Additionally, sheen of product was recovered during the AFVR event.

On October 6, 2011, ATC personnel oversaw an AFVR event at Monitor Wells MW-9 and MW-27 by VERCO personnel at the site. The event was conducted for eight hours at these two wells simultaneously with off-gas treatment, and approximately 906 gallons of liquid were removed during this event. Additionally, sheen of product was recovered during the AFVR event.

On November 7, 2011, ATC personnel oversaw an AFVR event at Monitor Wells MW-10 and MW-30 by VERCO personnel at the site. The event was conducted for eight hours at these two wells simultaneously with off-gas treatment, and approximately 580 gallons of liquid were removed during this event. Additionally, sheen of product was recovered during the AFVR event. A site location map is presented as Figure 1 and a site map is presented as Figure 2. Summaries of the two AFVR events are presented in the appendix.

Due to the continued effectiveness of the current AFVR events; ATC recommends that three additional AFVR events be conducted at Monitor Wells MW-9, MW-10, MW-27 and MW-30, followed by a groundwater sampling event. Should you have any questions or require additional information, please contact me at 735-0003.

Sincerely,
ATC Associates Inc.
UST Site Rehabilitation Contractor #313

Brandon T. Guiles
Project Scientist

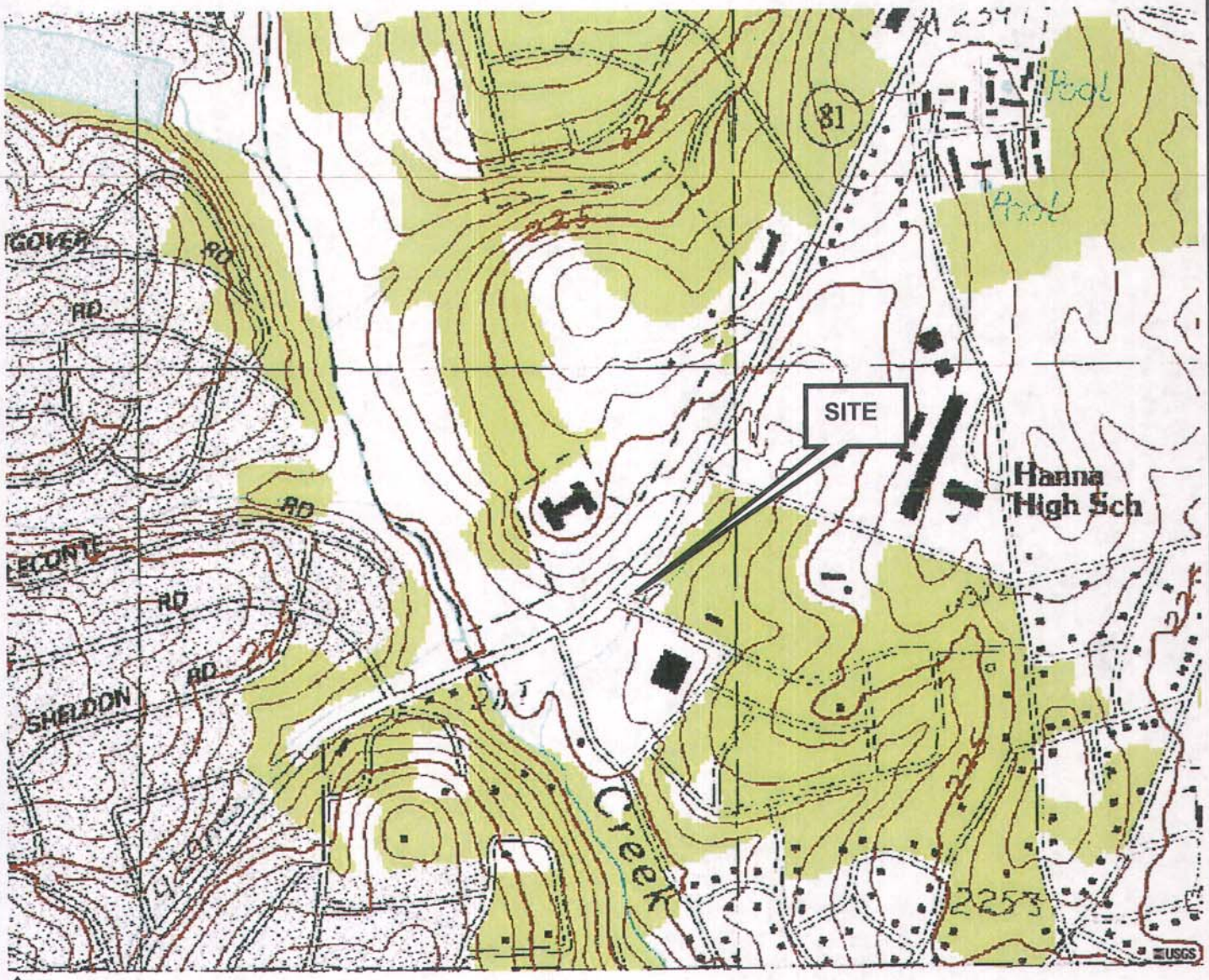
Fred Lyke, P.G. #1055
Branch Manager

FREDERICK P. LYKE
REGISTERED
1055
NORTH CAROLINA
PROFESSIONAL GEOLOGIST

Attachments

cc: Mr. Brent Puzak, The Pantry, Inc.

FIGURES



↑N

Figure 1: Site Location Map
Pantry #585
1502 East Greenville Street
Anderson, South Carolina
UST Permit #12458

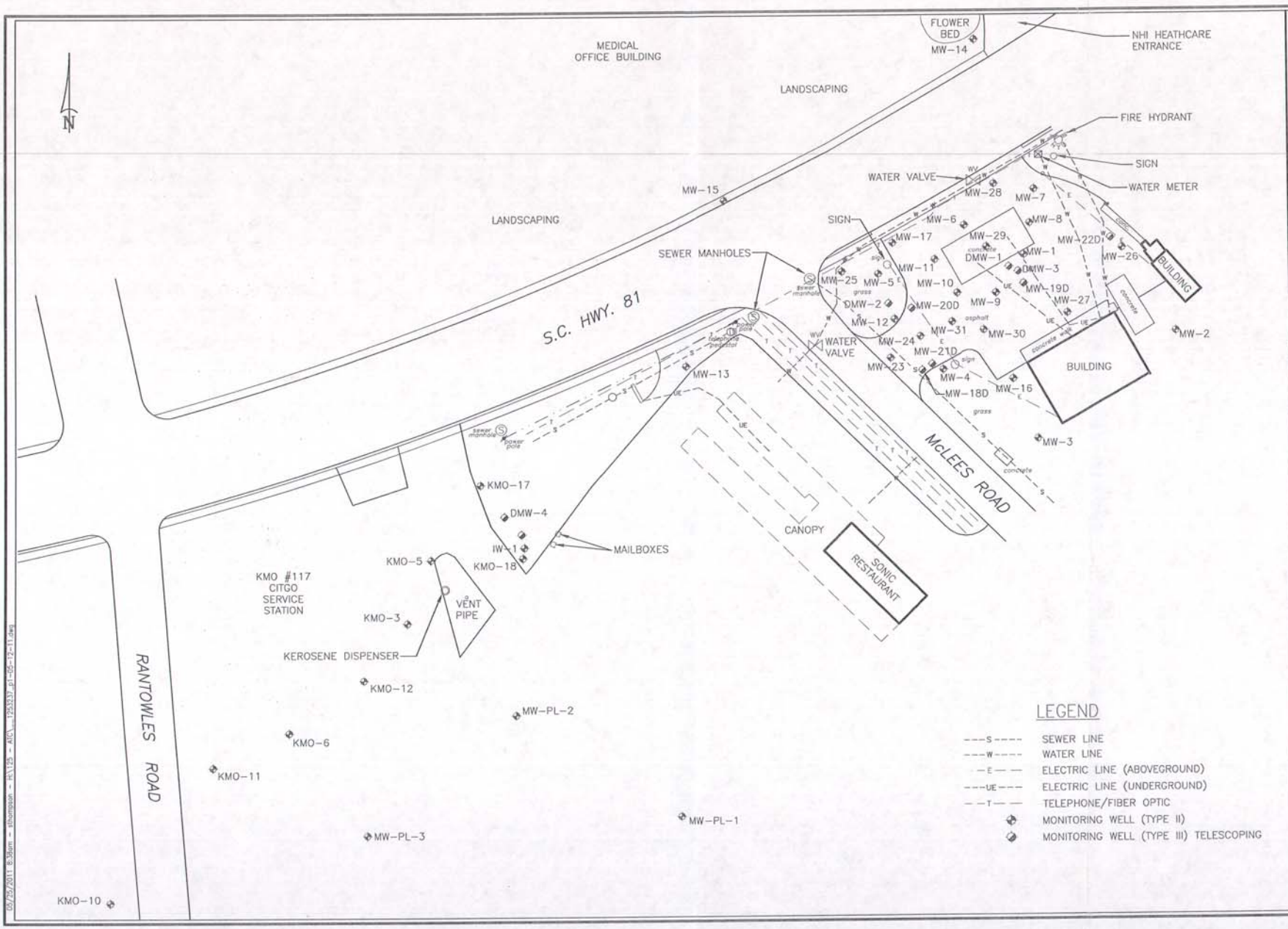
ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q
Columbia, South Carolina
Phone (803) 735-0003
Fax (803) 735-0443

ATC PROJECT No: 14.25384.0585

SOURCE: USGS Topographic Map Anderson, SC Quadrangle

1"= 885'



ATC ASSOCIATES INC.
Columbia, South Carolina 29203 (803) 735-0003 FAX (803) 735-0443

SCALE	DATE	PROJECT NO.
1" = 50'	05-11-2011	89.25384.0585

REV. BY	PREP. BY	TYPE CODE	CAD FILE
	CW		1253237.dwg

TITLE **FIGURE 2**
SITE MAP
PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

UST PERMIT #12458

NOTES:

05/25/2011 8:38am - dthompson - H:\125 - ATC_1253237.pl-05-12-11.dwg

APPENDIX

AFVR Summary Reports

AFVR MONITORING DATA
Site Name: Pantry #585
Site Location: Anderson, SC
9/1/2011

Start Weather: 84 degrees F,
Finish Weather: 92 degrees F

Extraction Well	Time (hh:mm)	Extraction Well Head Vacuum (in. Hg)				Vacuum Truck Exhaust					
			MW10	MW30	Truck	Relative Humidity	Temp (°F)	Concentration (PPM)	Offgas Velocity Ft/Min	Water Vapor (%)	Flow Rate (DSCFM)
MW10	8:00										
MW30	8:30		14.0	10.0	18.0	6.2	214.0	989	3200	0.05	116.65
	9:00		13.0	9.0	18.0	4.4	221.0	969	3200	0.04	116.67
	9:30		14.0	10.0	20.0	4.2	225.0	1432	3200	0.04	115.99
	10:00		14.0	11.0	19.0	4.1	227.0	1309	3200	0.04	115.65
	10:30		15.0	10.0	20.0	4.1	230.0	1402	3300	0.04	118.75
	11:00		15.0	10.0	20.0	3.5	235.0	1425	3300	0.04	117.89
	11:30		15.0	10.0	20.0	3.4	236.0	1556	3200	0.04	114.16
	12:00		15.0	11.0	20.0	3.1	239.0	1498	3200	0.04	113.67
	12:30		15.0	10.0	20.0	3.2	240.0	1623	3100	0.04	109.96
	1:00		15.0	10.0	20.0	3.0	239.0	1663	3100	0.04	110.11
	1:30		15.0	11.0	20.0	2.9	242.0	1532	3000	0.04	108.11
	2:00		15.0	11.0	20.0	2.8	245.0	1465	3100	0.04	109.18
	2:30		15.0	11.0	20.0	2.9	249.0	1789	3100	0.04	108.56
	3:00		15.0	10.0	20.0	3.0	242.0	1469	3200	0.04	113.18
	3:30		15.0	11.0	20.0	3.1	245.0	1351	3200	0.04	112.70
	4:00		15.0	10.0	20.0	2.9	243.0	1522	3100	0.04	109.49

Well Gauging Data:				Before AFVR Event			After AFVR Event		
Well No.	Diameter (in)	Total Depth (ft)	Stinger Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)
MW10	2.00	17.00	13.50	12.30	13.03	0.73	none	13.98	0.00
MW30	2.00	20.00	14.00	11.48	13.58	1.10	none	13.83	0.00

AFVR Information	
Client	ATC
Equipment Operator:	R Freeman
Blower Discharge I.D.	3 inches

Notes: Pipe ID - The inside diameter of the blower discharge piping (from vacuum truck)
Velocity - The rate at which air flows is measured at the blower discharge piping
Temperature - The temperature of the air stream exiting the blower discharge piping
Relative humidity - The & relative humidity of the air stream exiting the blower discharge piping
Water Vapor in % - Pounds of water per pound of dry air (derived from a Psychrometric chart of temp vs relative humidity)
Flow rate = (1 - water vapor)(velocity)(Pipe Diameter/24)^2(3.14)(528°R/Temp + 460)

Total Gallons Extracted
929

Site Name: Pantry #585
Location: Anderson, SC
Date:9/1/11

EMISSION CALCULATION

Elapsed Time (min)	Flow Rate (DSCFM)	Concentration (ppm)	K (#C - gas)	PPMg (ppm)	Cg:m (mg/dsm^3)	Cg (lbs/dscf)	PMRg (lb/hr)	PMR (lb)
0								
30	116.65	989	4	3956	21045.92	0.001313897	9.1959636	4.597982
60	116.67	969	4	3876	20620.32	0.001287327	9.0115435	4.505772
90	115.99	1432	4	5728	30472.96	0.001902427	13.23975	6.619875
120	115.65	1309	4	5236	27855.52	0.00173902	12.0670606	6.033530
150	118.75	1402	4	5608	29834.56	0.001862572	13.270823	6.635411
180	117.89	1425	4	5700	30324	0.001893127	13.39085	6.695423
210	114.16	1556	4	6224	33111.68	0.002067162	14.159234	7.079617
240	113.67	1498	4	5992	31877.44	0.001990109	13.572939	6.786469
270	109.96	1623	4	6492	34537.44	0.002156172	14.225563	7.112781
300	110.11	1663	4	6652	35388.64	0.002209313	14.596046	7.298023
330	106.11	1532	4	6128	32600.96	0.002035278	12.9578	6.4789
360	109.18	1465	4	5860	31175.2	0.001946268	12.749611	6.374805
390	108.56	1789	4	7156	38069.92	0.002376705	15.480906	7.740453
420	113.18	1469	4	5876	31260.32	0.001951582	13.252802	6.626401
450	112.70	1351	4	5404	28749.28	0.001794818	12.136556	6.068278
480	109.49	1522	4	6088	32388.16	0.002021993	13.28328	6.64164
					Total Emissions in pounds			103.2954
					Equivalent Gallons (vapor)			16.76873

Equations:

PPMg = PPM (measured) x K

Mg = 128 mg/mg-mole (molecular weight of gasoline)

Cg:m = PPMg x (Mg/K_3) mass conc. of gasoline emission

Cg = (Cg:m)(62.43×10^{-9} $lb\text{-}m^3/mg\text{-}ft^3$) mass concentration of gasoline emission

PMRg = (Cg)(Q_{std})(60 min/hr) mass removal rate of gasoline emission

PMR = PMRg {(T2-T1)/60} (mass removal rate of gasoline over time)

K = Number of carbons in calibration gas

K_3 = 24.07 $dsm^3/1 \times 10^6$ mg-mole (mass to volume conversion factor)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
2. Page 1 of
3. Emergency Response Phone
4. Waste Tracking Number

5. Generator's Name and Mailing Address
Pantry 585
1502 E. Greenville Street
Anderson, SC

Generator's Site Address (if different than mailing address)

Generator's Phone

6. Transporter 1 Company Name: VERCO — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
TRK Hauling Service
425 Bankard Road
Sumter SC

U.S. EPA ID Number

Facility's Phone

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any))	10. Containers No	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1 Non Haz Water	1	st	923	gal	
	2					
	3					
	4					

13. Special Handling Instructions and Additional Information

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Brandon Guites — Signature: BG — Month 9 Day 1 Year 11

15. International Shipments: ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:

Transporter signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Robert Freeman — Signature: [signature] — Month 9 Day 1 Year 11

Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Joseph Myers — Signature: [signature] — Month 9 Day 12 Year 11

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

6 NHMC-SO-1158

1-DESIGNATED FACILITY TO DESTINATION

AFVR MONITORING DATA
Site Name: Pantry #585
Site Location: Anderson, SC
10/6/2011

Start Weather: 70 degrees F,
Finish Weather: 82 degrees F

Extraction Well	Time (hh:mm)	Extraction Well Head Vacuum (in. Hg)				Vacuum Truck Exhaust					
		MW27	MW9	Truck		Relative Humidity	Temp (°F)	Concentration (PPM)	Offgas Velocity Ft/Min	Water Vapor (%)	Flow Rate (DSCFM)
MW27/ MW9	8:30										
	9:00	16.0	15.0	18.0		20.0	115.0	3493	2800	0.05	119.65
	9:30	16.0	16.0	18.0		3.9	189.0	3102	3300	0.06	124.28
	10:00	16.0	16.0	18.0		3.2	209.0	2685	3200	0.04	119.38
	10:30	16.0	16.0	18.0		3.0	225.0	2116	3200	0.04	115.99
	11:00	16.0	16.0	18.0		2.5	225.0	1507	3200	0.04	116.59
	11:30	16.0	16.0	19.0		2.7	225.0	1996	3200	0.04	116.59
	12:00	16.0	16.0	19.0		2.5	227.0	2169	3200	0.04	116.25
	12:30	16.0	16.0	19.0		2.3	230.0	1856	3200	0.04	115.75
	1:00	16.0	16.0	19.0		2.3	231.0	1070	3200	0.04	115.58
	1:30	16.0	16.0	19.0		2.2	232.0	1120	3200	0.04	115.41
	2:00	16.0	16.0	19.0		2.2	233.0	1004	3200	0.04	115.25
	2:30	16.0	16.0	20.0		2.2	233.0	1342	3200	0.04	115.25
	3:00	17.0	16.5	20.0		2.2	235.0	1598	3200	0.04	114.92
	3:30	17.0	16.5	20.0		2.2	237.0	1470	3200	0.04	114.59
	4:00	17.0	16.5	20.0		2.2	240.0	1379	3200	0.04	114.10
	4:30	17.0	16.5	20.0		2.2	240.0	1353	3200	0.04	114.10

Well Gauging Data:				Before AFVR Event			After AFVR Event		
Well No.	Diameter (in)	Total Depth (ft)	Stinger Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)
MW27	2.00	20.00	13.50	12.24	12.99	0.75	none	13.90	0.00
MW9	2.00	20.00	13.50	12.28	13.00	0.72	none	14.65	0.00

AFVR Information	
Client	ATC
Equipment Operator:	RF
Blower Discharge I.D.	3 inches

Notes: Pipe ID - The inside diameter of the blower discharge piping (from vacuum truck)
Velocity - The rate at which air flows is measured at the blower discharge piping
Temperature - The temperature of the air stream exiting the blower discharge piping
Relative humidity - The & relative humidity of the air stream exiting the blower discharge piping
Water Vapor in % - Pounds of water per pound of dry air (derived from a Psychrometric chart of temp. vs relative humidity)
Flow rate = (1 - water vapor)(velocity)(Pipe Diameter/24)^2(3.14)(528°R/Temp + 460)

Total Gallons Extracted
906

Site Name: Pantry #585
Location: Anderson, SC
Date:10/6/11

EMISSION CALCULATION

Elapsed Time (min)	Flow Rate (DSCFM)	Concentration (ppm)	K (#C - gas)	PPMg (ppm)	Cg:m (mg/dsm^3)	Cg (lbs/dscf)	PMRg (lb/hr)	PMR (lb)
0								
30	119.65	3493	4	13972	74331.04	0.004640487	33.314055	16.657027
60	124.28	3102	4	12408	66010.56	0.004121039	30.729766	15.3648828
90	119.38	2685	4	10740	57136.8	0.00356705	25.550069	12.775034
120	115.99	2116	4	8464	45028.48	0.002811128	19.5637642	9.781882
150	116.59	1507	4	6028	32068.96	0.002002065	14.005247	7.0026234
180	116.59	1996	4	7984	42474.88	0.002651707	18.54975	9.2748747
210	116.25	2169	4	8676	46156.32	0.002881539	20.098735	10.049367
240	115.75	1856	4	7424	39495.68	0.002465715	17.124393	8.5621964
270	115.58	1070	4	4280	22769.6	0.001421506	9.8578607	4.9289303
300	115.41	1120	4	4480	23833.6	0.001487932	10.303331	5.1516657
330	115.25	1004	4	4016	21365.12	0.001333824	9.223396	4.611698
360	115.25	1342	4	5368	28557.76	0.001782861	12.328484	6.164242
390	114.92	1598	4	6392	34005.44	0.00212296	14.638231	7.3191156
420	114.59	1470	4	5880	31281.6	0.00195291	13.427039	6.7135197
450	114.10	1379	4	5516	29345.12	0.001832016	12.54198	6.2709902
480	114.10	1353	4	5412	28791.84	0.001797475	12.305511	6.1527555
					Total Emissions in pounds			136.78081
					Equivalent Gallons (vapor)			22.204676

Equations: PPMg = PPM (measured) x K Mg = 128 mg/mg-mole (molecular weight of gasoline)

Cg:m = PPMg x (Mg/K_3) mass conc. of gasoline emission

Cg = (Cg:m)(62.43×10^{-9} $lb\text{-}m^3/mg\text{-}ft^3$) mass concentration of gasoline emission

PMRg = (Cg)(Q_{std})(60 min/hr) mass removal rate of gasoline emission

PMR = PMRg {(T2-T1)/60} (mass removal rate of gasoline over time)

K = Number of carbons in calibration gas

K_3 = 24.07 $dsm^3/1 \times 10^6$ mg-mole (mass to volume conversion factor)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
2. Page 1 of
3. Emergency Response Phone
4. Waste Tracking Number

5. Generator's Name and Mailing Address: Pantry 585, 1502 E Greenville Street, Anderson SC

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: VERCO — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: TK Tank, 415 Rockland Rd, Sumter SC — U.S. EPA ID Number:

Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. Non Haz Water	1	St	906	gal	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Brandon Guiles — Signature: BG — Month 10 Day 16 Year 11

15. International Shipments: ☐ Import to U.S. ☐ Export from U.S. — Port of entry/exit: — Date leaving U.S.:

Transporter signature (for exports only):

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Robert Frauma — Signature: [signature] — Month 10 Day 16 Year 11

Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space: ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number:

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Joseph Myers — Signature: [signature] — Month 10 Day 16 Year 11

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

6-NHM-C-SC-1158

1-DESIGNATED FACILITY TO DESTINATION

AFVR MONITORING DATA
Site Name: Pantry #585
Site Location: Anderson, SC
11/7/2011

Start Weather: 63 degrees F,
Finish Weather: 82 degrees F

Extraction Well	Time (hh:mm)	Extraction Well Head Vacuum (in. Hg)				Vacuum Truck Exhaust					
		MW10	MW30	Truck		Relative Humidity	Temp (°F)	Concentration (PPM)	Offgas Velocity Ft/Min	Water Vapor (%)	Flow Rate (DSCFM)
MW30/ MW10	8:30										
	9:00	15.5	12.5	18.0		3.5	199.0	2103	3700	0.02	143.03
	9:30	16.0	12.5	18.0		3.2	223.0	1967	3700	0.03	136.61
	10:00	15.5	12.5	19.0		2.7	225.0	1769	3800	0.03	139.17
	10:30	15.5	13.0	19.0		3.4	216.0	1662	3800	0.03	141.03
	11:00	15.5	13.0	19.0		3.1	218.0	1825	3800	0.03	140.61
	11:30	16.0	13.0	19.0		2.9	222.0	1876	3800	0.03	139.78
	12:00	16.0	12.5	19.0		2.8	223.0	1898	3800	0.03	139.58
	12:30	15.5	13.0	19.0		3.0	221.0	1906	3800	0.03	139.99
	1:00	15.5	13.0	19.0		3.0	221.0	1869	3800	0.03	139.99
	1:30	15.5	13.0	20.0		2.9	226.0	1799	3800	0.03	138.97
	2:00	16.0	13.0	20.0		2.8	224.0	1679	3800	0.03	139.36
	2:30	16.0	13.0	20.0		2.9	221.0	1743	3800	0.03	139.99
	3:00	15.5	12.5	20.0		2.9	225.0	1812	3800	0.03	139.17
	3:30	15.5	13.0	20.0		2.7	222.0	1521	3800	0.03	139.78
	4:00	15.5	13.0	20.0		2.6	223.0	1414	3800	0.03	139.58
	4:30	15.5	13.0	20.0		2.7	224.0	1567	3800	0.03	139.38

Well Gauging Data:				Before AFVR Event			After AFVR Event		
Well No.	Diameter (in)	Total Depth (ft)	Stinger Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)
MW10	2.00	20.00	14.75	12.63	14.33	1.70	none	14.61	0.00
MW30	2.00	20.00	14.00	12.19	13.62	1.43	none	14.02	0.00

AFVR Information	
Client	ATC
Equipment Operator:	RF
Blower Discharge I.D.	3 inches

Notes: Pipe ID - The inside diameter of the blower discharge piping (from vacuum truck)
Velocity - The rate at which air flows is measured at the blower discharge piping
Temperature - The temperature of the air stream exiting the blower discharge piping
Relative humidity - The & relative humidity of the air stream exiting the blower discharge piping
Water Vapor in % - Pounds of water per pound of dry air (derived from a Psychrometric chart of temp vs relative humidity)
Flow rate = (1 - water vapor)(velocity)(Pipe Diameter/24)^2(3.14)(528°R/Temp + 460)

Total Gallons Extracted
580

Site Name: Pantry #585
Location: Anderson, SC
Date:11/7/11

EMISSION CALCULATION

Elapsed Time (min)	Flow Rate (DSCFM)	Concentration (ppm)	K (#C - gas)	PPMg (ppm)	Cg:m (mg/dsm^3)	Cg (lbs/dscf)	PMRg (lb/hr)	PMR (lb)
0								
30	143.03	2103	4	8412	44751.84	0.002793857	23.976325	11.988163
60	136.61	1967	4	7868	41857.76	0.00261318	21.419191	10.7095954
90	139.17	1769	4	7076	37644.32	0.002350135	19.624096	9.8120482
120	141.03	1662	4	6648	35367.36	0.002207984	18.6835214	9.341761
150	140.61	1825	4	7300	38836	0.002424531	20.454802	10.227401
180	139.78	1876	4	7504	39921.28	0.002492286	20.90230	10.45115
210	139.58	1898	4	7592	40389.44	0.002521513	21.117165	10.558582
240	139.99	1906	4	7624	40559.68	0.002532141	21.268464	10.634232
270	139.99	1869	4	7476	39772.32	0.002482986	20.855592	10.427796
300	138.97	1799	4	7196	38282.72	0.00238999	19.928216	9.9641082
330	139.38	1679	4	6716	35729.12	0.002230569	18.653802	9.3269011
360	139.99	1743	4	6972	37091.04	0.002315594	19.449597	9.724799
390	139.17	1812	4	7248	38559.36	0.002407261	20.10111	10.050555
420	139.78	1521	4	6084	32366.88	0.002020664	16.946908	8.4734538
450	139.58	1414	4	5656	30089.92	0.001878514	15.732177	7.8660883
480	139.38	1567	4	6268	33345.76	0.002081776	17.409475	8.7047373
					Total Emissions in pounds			158.26137
					Equivalent Gallons (vapor)			25.691781

Equations: PPMg = PPM (measured) x K Mg = 128 mg/mg-mole (molecular weight of gasoline)

Cg:m = PPMg x (Mg/K_3) mass conc. of gasoline emission

Cg = (Cg:m)(62.43×10^{-9} $lb\text{-}m^3/mg\text{-}ft^3$) mass concentration of gasoline emission

PMRg = (Cg)(Q_{std})(60 min/hr) mass removal rate of gasoline emission

PMR = PMRg {(T2-T1)/60} (mass removal rate of gasoline over time)

K = Number of carbons in calibration gas

K_3 = 24.07 $dsm^3/1 \times 10^6$ mg-mole (mass to volume conversion factor)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
2. Page 1 of
3. Emergency Response Phone
4. Waste Tracking Number

5. Generator's Name and Mailing Address
Pantry 585
Anderson SC

Generator's Site Address (if different than mailing address)
Pantry Inc
c/o ATC Associates
400 NE Drive
Columbia SC

Generator's Phone:

6. Transporter 1 Company Name: VERCO
U.S. EPA ID Number

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
TK Tank
425 Boulevard Ave
Sumter SC
U.S. EPA ID Number

Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. Non Haz Water	1	st	580	gal	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Brandon Giles
Signature
Month 11 Day 7 Year 11

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name
Signature
Month Day Year

Transporter 2 Printed/Typed Name: Robert Freeman
Signature
Month 11 Day 7 Year 11

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

6-NHM-C-SO-1158

2-DESIGNATED FACILITY TO GENERATOR

ATC ASSOCIATES INC.
Engineering Individual Solutions

400 Northeast Drive, Unit Q
Columbia, South Carolina 29203
803-735-0003
Fax 803-735-0443
www.atcassociates.com

November 20, 2011

UST
DEC 0 2 2011
PROGRAM

Mr. Read S. Miner, Hydrogeologist
SCDHEC – UST Program
Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201-1708

Re: Aggressive Fluid Vapor Recovery Activities
Pantry #585
1502 E Greenville Hwy
Anderson, South Carolina
UST Permit #12458

UST
32
DOCKETING

Dear Mr. Miner:

As per your directive letter dated August 4, 2011, ATC Associates Inc. (ATC) scheduled three aggressive fluid vapor recovery (AFVR) events at Pantry #585.

On September 1, 2011, ATC personnel oversaw AFVR activities at Monitor Wells MW-10 and MW-30 by Versatile Environmental Resource Company (VERCO) personnel at the site. This event was conducted for eight hours at these two wells simultaneously with off-gas treatment. During the AFVR event, emission data was collected at thirty minute intervals from the blower discharge piping of the vacuum truck. Drawdown data was collected at thirty minute intervals from Monitor Wells MW-16 and MW-31. Approximately 923 gallons of liquid were removed during this event. Additionally, sheen of product was recovered during the AFVR event.

On October 6, 2011, ATC personnel oversaw an AFVR event at Monitor Wells MW-9 and MW-27 by VERCO personnel at the site. The event was conducted for eight hours at these two wells simultaneously with off-gas treatment. During the AFVR event, emission data was collected at thirty minute intervals from the blower discharge piping of the vacuum truck. Drawdown data was collected at thirty minute intervals from Monitor Wells MW-16 and MW-26. Approximately 906 gallons of liquid were removed during this event. Additionally, sheen of product was recovered during the AFVR event.

On November 7, 2011, ATC personnel oversaw an AFVR event at Monitor Wells MW-10 and MW-30 by VERCO personnel at the site. The event was conducted for eight

hours at these two wells simultaneously with off-gas treatment. During the AFVR event, emission data was collected at thirty minute intervals from the blower discharge piping of the vacuum truck. Drawdown data was collected at thirty minute intervals from Monitor Wells MW-16 and MW-31, and approximately 580 gallons of liquid were removed during this event. Additionally, sheen of product was recovered during the AFVR event. A site location map is presented as Figure 1 and a site map is presented as Figure 2. Summaries of the two AFVR events are presented in the appendix.

Due to the continued effectiveness of the current AFVR events; ATC recommends that three additional AFVR events be conducted at Monitor Wells MW-9, MW-10, MW-27 and MW-30, followed by a groundwater sampling event. Should you have any questions or require additional information, please contact me at 735-0003.

Sincerely,
ATC Associates Inc.
UST Site Rehabilitation Contractor #313

Brandon T. Guiles
Project Scientist

Fred L. Lyke, P.G. #1055
Branch Manager

Attachments

cc: Mr. Brent Puzak, The Pantry, Inc.

FIGURES

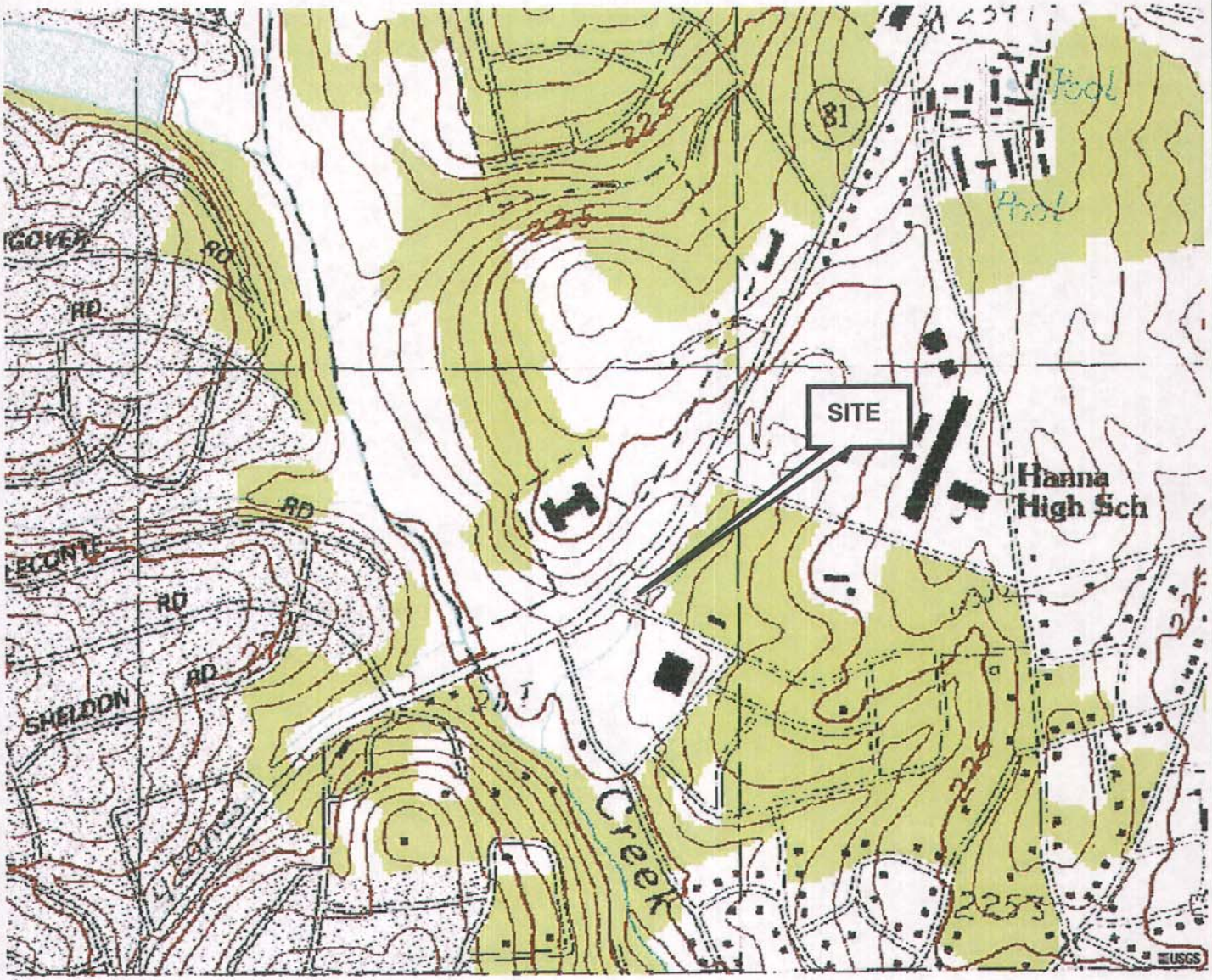


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Figure 1: Site Location Map
Pantry #585
1502 East Greenville Street
Anderson, South Carolina
UST Permit #12458

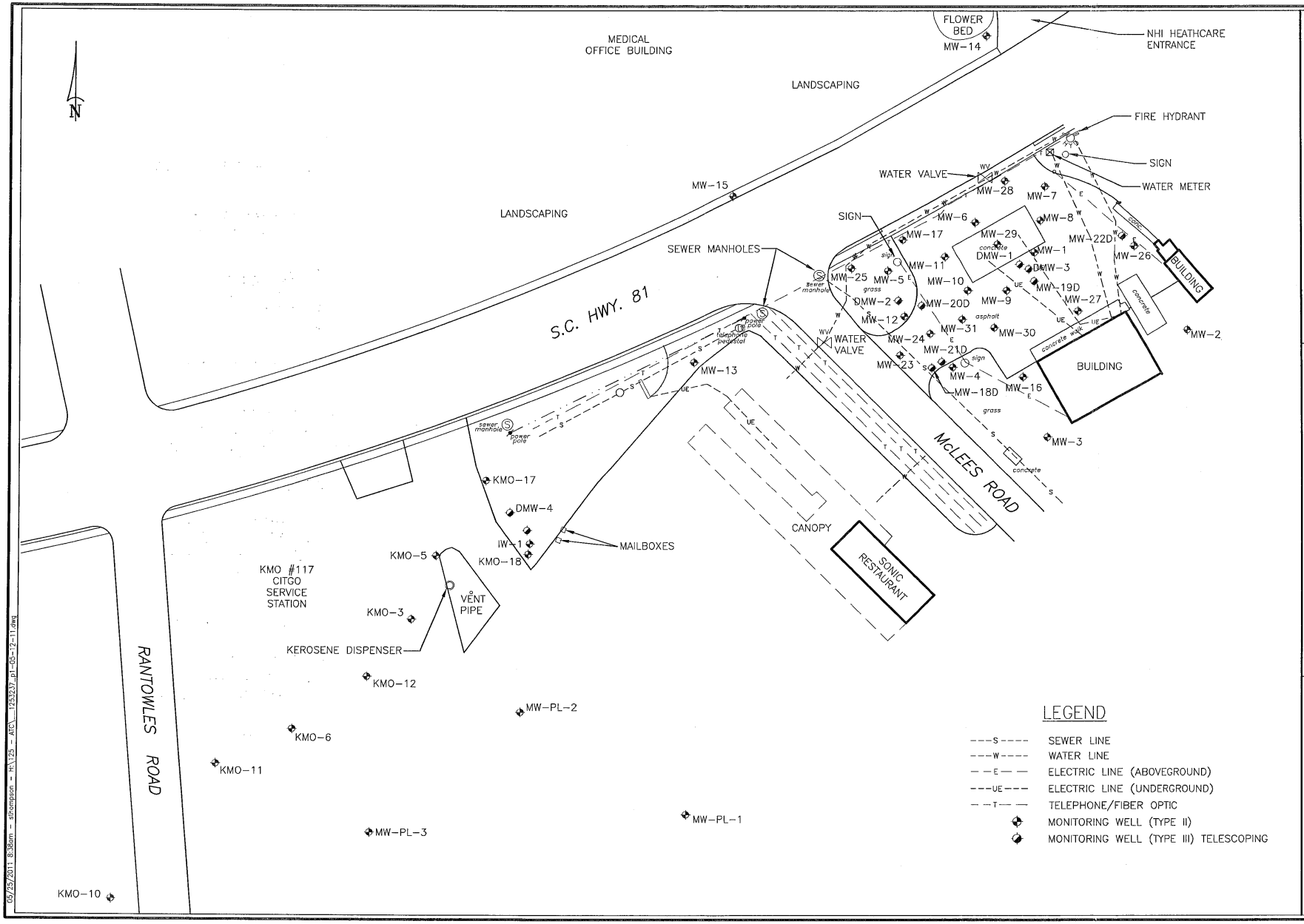
ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q
Columbia, South Carolina
Phone (803) 735-0003
Fax (803) 735-0443

ATC PROJECT No: 14.25384.0585

SOURCE: USGS Topographic Map Anderson, SC Quadrangle

1"= 885'



05/25/2011 8:38am - sthompson - H:\125 - ATC_1253237_p1-05-12-11.dwg

ATC ASSOCIATES INC.
Columbia, South Carolina 29203 (803) 735-0003 FAX (803) 735-0443

SCALE	DATE	PROJECT NO.
1" = 50'	05-11-2011	89.25384.0585

CAD FILE	TYPE CODE	PREP. BY	REV. BY
1253237.dwg		CW	

TITLE **FIGURE 2**
SITE MAP
PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

UST PERMIT #12458

NOTES:

APPENDIX

AFVR Summary Reports

AFVR MONITORING DATA
Site Name: Pantry #585
Site Location: Anderson, SC
9/1/2011

Start Weather: 84 degrees F,
Finish Weather: 92 degrees F

Extraction Well	Time (hh:mm)	Extraction Well Head Vacuum (in. Hg)				Vacuum Truck Exhaust					
			MW10	MW30	Truck	Relative Humidity	Temp (°F)	Concentration (PPM)	Offgas Velocity Ft/Min	Water Vapor (%)	Flow Rate (DSCFM)
MW10	8:00										
MW30	8:30		14.0	10.0	18.0	6.2	214.0	989	3200	0.05	116.65
	9:00		13.0	9.0	18.0	4.4	221.0	969	3200	0.04	116.67
	9:30		14.0	10.0	20.0	4.2	225.0	1432	3200	0.04	115.99
	10:00		14.0	11.0	19.0	4.1	227.0	1309	3200	0.04	115.65
	10:30		15.0	10.0	20.0	4.1	230.0	1402	3300	0.04	118.75
	11:00		15.0	10.0	20.0	3.5	235.0	1425	3300	0.04	117.89
	11:30		15.0	10.0	20.0	3.4	236.0	1556	3200	0.04	114.16
	12:00		15.0	11.0	20.0	3.1	239.0	1498	3200	0.04	113.67
	12:30		15.0	10.0	20.0	3.2	240.0	1623	3100	0.04	109.96
	1:00		15.0	10.0	20.0	3.0	239.0	1663	3100	0.04	110.11
	1:30		15.0	11.0	20.0	2.9	242.0	1532	3000	0.04	106.11
	2:00		15.0	11.0	20.0	2.8	245.0	1465	3100	0.04	109.18
	2:30		15.0	11.0	20.0	2.9	249.0	1789	3100	0.04	108.56
	3:00		15.0	10.0	20.0	3.0	242.0	1469	3200	0.04	113.18
	3:30		15.0	11.0	20.0	3.1	245.0	1351	3200	0.04	112.70
	4:00		15.0	10.0	20.0	2.9	243.0	1522	3100	0.04	109.49

Well Gauging Data:				Before AFVR Event			After AFVR Event		
Well No.	Diameter (in)	Total Depth (ft)	Stinger Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)
MW10	2.00	17.00	13.50	12.30	13.03	0.73	none	13.98	0.00
MW30	2.00	20.00	14.00	11.48	13.58	1.10	none	13.83	0.00

AFVR Information	
Client	ATC
Equipment Operator:	R Freeman
Blower Discharge I.D.	3 inches

Notes: Pipe ID - The inside diameter of the blower discharge piping (from vacuum truck)
Velocity - The rate at which air flows is measured at the blower discharge piping
Temperature - The temperature of the air stream exiting the blower discharge piping
Relative humidity - The % relative humidity of the air stream exiting the blower discharge piping
Water Vapor in % - Pounds of water per pound of dry air (derived from a Psychrometric chart of temp vs relative humidity)
Flow rate = (1 - water vapor)(velocity)(Pipe Diameter/24)^2(3.14)(528°R/Temp + 460)

Total Gallons Extracted
928

DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
SITE - PANTRY #585
LOCATION - ANDERSON, SC
SCDHEC SITE ID # 12458

DIFFERENTIAL PRESSURE DATA

		Well Designation:		
		MW-16	MW-31	
Time	**Elapsed Time**	**Differential Pressure Readings (inches of water)**		
8:00	0.0	0	0	
8:30	0.5	0	0	
9:00	1.0	0	0	
9:30	1.5	0	1	
10:00	2.0	0	0	
10:30	2.5	1	1	
11:00	3.0	0	0	
11:30	3.5	1	0	
12:00	4.0	1	1	
12:30	4.5	1	0	
13:00	5.0	1	1	
13:30	5.5	1	1	
14:00	6.0	1	1	
14:30	6.5	1	1	
15:00	7.0	1	1	
15:30	7.5	1	1	
16:00	8.0	1	1	
Maximum Change:		**1**	**1**	

GROUNDWATER DRAWDOWN DATA

		Well Designation:		
		MW-16	MW-31	
Time	**Elapsed Time**	**Depth to Liquid (feet below of casing):**		
Prior toAFVR	0 hours	13.52	13.66	
	4 hours	13.60	13.80	
	8 hours	13.79	13.89	
Maximum Change:		-0.27	-0.23	

Site Name: Pantry #585
Location: Anderson, SC
Date:9/1/11

EMISSION CALCULATION

Elapsed Time (min)	Flow Rate (DSCFM)	Concentration (ppm)	K (#C - gas)	PPMg (ppm)	Cg:m (mg/dsm^3)	Cg (lbs/dscf)	PMRg (lb/hr)	PMR (lb)
0								
30	116.65	989	4	3956	21045.92	0.001313897	9.1959636	4.597982
60	116.67	969	4	3876	20620.32	0.001287327	9.0115435	4.505772
90	115.99	1432	4	5728	30472.96	0.001902427	13.23975	6.619875
120	115.65	1309	4	5236	27855.52	0.00173902	12.0670606	6.033530
150	118.75	1402	4	5608	29834.56	0.001862572	13.270823	6.635411
180	117.89	1425	4	5700	30324	0.001893127	13.39085	6.695423
210	114.16	1556	4	6224	33111.68	0.002067162	14.159234	7.079617
240	113.67	1498	4	5992	31877.44	0.001990109	13.572939	6.786469
270	109.96	1623	4	6492	34537.44	0.002156172	14.225563	7.112781
300	110.11	1663	4	6652	35388.64	0.002209313	14.596046	7.298023
330	106.11	1532	4	6128	32600.96	0.002035278	12.9578	6.4789
360	109.18	1465	4	5860	31175.2	0.001946268	12.749611	6.374805
390	108.56	1789	4	7156	38069.92	0.002376705	15.480906	7.740453
420	113.18	1469	4	5876	31260.32	0.001951582	13.252802	6.626401
450	112.70	1351	4	5404	28749.28	0.001794818	12.136556	6.068278
480	109.49	1522	4	6088	32388.16	0.002021993	13.28328	6.64164
					Total Emissions in pounds			103.2954
					Equivalent Gallons (vapor)			16.76873

Equations: PPMg = PPM (measured) x K

Mg = 128 mg/mg-mole (molecular weight of gasoline)

Cg:m = PPMg x (Mg/K_3) mass conc. of gasoline emission

Cg = (Cg:m)(62.43×10^{-9} lb-m^3/mg-ft^3) mass concentration of gasoline emission

PMRg = (Cg)(Q_{std})(60 min/hr) mass removal rate of gasoline emission

PMR = PMRg {(T2-T1)/60} (mass removal rate of gasoline over time)

K = Number of carbons in calibration gas

K_3 = 24.07 dsm^3/1 x 10^6 mg-mole (mass to volume conversion factor)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Waste Tracking Number

5. Generator's Name and Mailing Address
Pantry 585
1502 E. Greenville Street
Anderson, SC
Generator's Phone

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: VERCO — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
FRK Hauling Service
425 Bakewell Road
Sumter SC
Facility's Phone — U.S. EPA ID Number

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. Non Haz Water	1	st	923	gal	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Brandon Guites — Signature: BG — Month 9 Day 1 Year 11

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Robert Freeman — Signature: [signature] — Month 9 Day 1 Year 11

Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Joseph Myers — Signature: [signature] — Month 9 Day 12 Year 11

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

6 NHMC-SC-1158

1-DESIGNATED FACILITY TO DESTINATION

AFVR MONITORING DATA
Site Name: Pantry #585
Site Location: Anderson, SC
10/6/2011

Start Weather: 70 degrees F,
Finish Weather: 82 degrees F

Extraction Well	Time (hh:mm)	Extraction Well Head Vacuum (in. Hg)				Vacuum Truck Exhaust					
		MW27	MW9	Truck		Relative Humidity	Temp (°F)	Concentration (PPM)	Offgas Velocity Ft/Min	Water Vapor (%)	Flow Rate (DSCFM)
MW27/ MW9	8:30										
	9:00	16.0	15.0	18.0		20.0	115.0	3493	2800	0.05	119.65
	9:30	16.0	16.0	18.0		3.9	189.0	3102	3300	0.06	124.28
	10:00	16.0	16.0	18.0		3.2	209.0	2685	3200	0.04	119.38
	10:30	16.0	16.0	18.0		3.0	225.0	2116	3200	0.04	115.99
	11:00	16.0	16.0	18.0		2.5	225.0	1507	3200	0.04	116.59
	11:30	16.0	16.0	19.0		2.7	225.0	1996	3200	0.04	116.59
	12:00	16.0	16.0	19.0		2.5	227.0	2169	3200	0.04	116.25
	12:30	16.0	16.0	19.0		2.3	230.0	1856	3200	0.04	115.75
	1:00	16.0	16.0	19.0		2.3	231.0	1070	3200	0.04	115.58
	1:30	16.0	16.0	19.0		2.2	232.0	1120	3200	0.04	115.41
	2:00	16.0	16.0	19.0		2.2	233.0	1004	3200	0.04	115.25
	2:30	16.0	16.0	20.0		2.2	233.0	1342	3200	0.04	115.25
	3:00	17.0	16.5	20.0		2.2	235.0	1598	3200	0.04	114.92
	3:30	17.0	16.5	20.0		2.2	237.0	1470	3200	0.04	114.59
	4:00	17.0	16.5	20.0		2.2	240.0	1379	3200	0.04	114.10
	4:30	17.0	16.5	20.0		2.2	240.0	1353	3200	0.04	114.10

Well Gauging Data:				Before AFVR Event			After AFVR Event		
Well No.	Diameter (in)	Total Depth (ft)	Stinger Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)
MW27	2.00	20.00	13.50	12.24	12.99	0.75	none	13.90	0.00
MW9	2.00	20.00	13.50	12.28	13.00	0.72	none	14.65	0.00

AFVR Information	
Client	ATC
Equipment Operator:	RF
Blower Discharge I.D.	3 inches

Notes: Pipe ID - The inside diameter of the blower discharge piping (from vacuum truck)
Velocity - The rate at which air flows is measured at the blower discharge piping
Temperature - The temperature of the air stream exiting the blower discharge piping
Relative humidity - The & relative humidity of the air stream exiting the blower discharge piping
Water Vapor in % - Pounds of water per pound of dry air (derived from a Psychrometric chart of temp. vs relative humidity)
Flow rate = (1 - water vapor)(velocity)(Pipe Diameter/24)^2(3.14)(528°R/Temp + 460)

Total Gallons Extracted
906

DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
SITE - PANTRY #585
LOCATION - ANDERSON, SC
SCDHEC SITE ID # 12458

DIFFERENTIAL PRESSURE DATA

		Well Designation:		
		MW-16	MW-26	
Time	Elapsed Time	Differential Pressure Readings (inches of water)		
8:30	0.0	0	0	
9:00	0.5	0	0	
9:30	1.0	0	0	
10:00	1.5	0	0	
10:30	2.0	0	0	
11:00	2.5	0	0	
11:30	3.0	0	0	
12:00	3.5	0	0	
12:30	4.0	0	0	
13:00	4.5	0	0	
13:30	5.0	0	0	
14:00	5.5	0	0	
14:30	6.0	0	0	
15:00	6.5	0	0	
15:30	7.0	0	0	
16:00	7.5	0	0	
16:30	8.0	0	0	
Maximum Change:		0	0	

GROUNDWATER DRAWDOWN DATA

		Well Designation:		
		MW-16	MW-26	
Time	Elapsed Time	Depth to Liquid (feet below of casing):		
Prior toAFVR	0 hours	12.97	12.91	
	4 hours	13.04	12.97	
	8 hours	13.06	13.01	
Maximum Change:		-0.09	-0.10	

Site Name: Pantry #585
Location: Anderson, SC
Date:10/6/11

EMISSION CALCULATION

Elapsed Time (min)	Flow Rate (DSCFM)	Concentration (ppm)	K (#C - gas)	PPMg (ppm)	Cg:m (mg/dsm^3)	Cg (lbs/dscf)	PMRg (lb/hr)	PMR (lb)
0								
30	119.65	3493	4	13972	74331.04	0.004640487	33.314055	16.657027
60	124.28	3102	4	12408	66010.56	0.004121039	30.729766	15.3648828
90	119.38	2685	4	10740	57136.8	0.00356705	25.550069	12.775034
120	115.99	2116	4	8464	45028.48	0.002811128	19.5637642	9.781882
150	116.59	1507	4	6028	32068.96	0.002002065	14.005247	7.0026234
180	116.59	1996	4	7984	42474.88	0.002651707	18.54975	9.2748747
210	116.25	2169	4	8676	46156.32	0.002881539	20.098735	10.049367
240	115.75	1856	4	7424	39495.68	0.002465715	17.124393	8.5621964
270	115.58	1070	4	4280	22769.6	0.001421506	9.8578607	4.9289303
300	115.41	1120	4	4480	23833.6	0.001487932	10.303331	5.1516657
330	115.25	1004	4	4016	21365.12	0.001333824	9.223396	4.611698
360	115.25	1342	4	5368	28557.76	0.001782861	12.328484	6.164242
390	114.92	1598	4	6392	34005.44	0.00212296	14.638231	7.3191156
420	114.59	1470	4	5880	31281.6	0.00195291	13.427039	6.7135197
450	114.10	1379	4	5516	29345.12	0.001832016	12.54198	6.2709902
480	114.10	1353	4	5412	28791.84	0.001797475	12.305511	6.1527555
					Total Emissions in pounds			136.78081
					Equivalent Gallons (vapor)			22.204676

Equations: PPMg = PPM (measured) x K

Mg = 128 mg/mg-mole (molecular weight of gasoline)

Cg:m = PPMg x (Mg/K_3) mass conc. of gasoline emission

Cg = (Cg:m)(62.43×10^{-9} $lb\text{-}m^3/mg\text{-}ft^3$) mass concentration of gasoline emission

PMRg = (Cg)(Q_{std})(60 min/hr) mass removal rate of gasoline emission

PMR = PMRg {(T2-T1)/60} (mass removal rate of gasoline over time)

K = Number of carbons in calibration gas

K_3 = 24.07 $dsm^3/1 \times 10^6$ mg-mole (mass to volume conversion factor)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
2. Page 1 of
3. Emergency Response Phone
4. Waste Tracking Number

5. Generator's Name and Mailing Address: Pantry 585, 1502 E Greenville Street, Anderson SC

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: VERCO — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: TK Tank, 415 Rockland Rd, Sumter SC — U.S. EPA ID Number

Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. Non Haz Water	1	St	906	gal	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Brandon Guiles — Signature: [signature] — Month 10 Day 6 Year 11

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Robert Freeman — Signature: [signature] — Month 10 Day 6 Year 11

Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Joseph Myers — Signature: [signature] — Month 10 Day 10 Year 11

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

6-NHM-C-SC-1158

1-DESIGNATED FACILITY TO DESTINATION

AFVR MONITORING DATA
Site Name: Pantry #585
Site Location: Anderson, SC
11/7/2011

Start Weather: 63 degrees F,
Finish Weather: 82 degrees F

Extraction Well	Time (hh:mm)	Extraction Well Head Vacuum (in. Hg)				Vacuum Truck Exhaust					
		MW10	MW30	Truck		Relative Humidity	Temp (°F)	Concentration (PPM)	Offgas Velocity Ft/Min	Water Vapor (%)	Flow Rate (DSCFM)
MW30/ MW10	8:30										
	9:00	15.5	12.5	18.0		3.5	199.0	2103	3700	0.02	143.03
	9:30	16.0	12.5	18.0		3.2	223.0	1967	3700	0.03	136.61
	10:00	15.5	12.5	19.0		2.7	225.0	1769	3800	0.03	139.17
	10:30	15.5	13.0	19.0		3.4	216.0	1662	3800	0.03	141.03
	11:00	15.5	13.0	19.0		3.1	218.0	1825	3800	0.03	140.61
	11:30	16.0	13.0	19.0		2.9	222.0	1876	3800	0.03	139.78
	12:00	16.0	12.5	19.0		2.8	223.0	1898	3800	0.03	139.58
	12:30	15.5	13.0	19.0		3.0	221.0	1906	3800	0.03	139.99
	1:00	15.5	13.0	19.0		3.0	221.0	1869	3800	0.03	139.99
	1:30	15.5	13.0	20.0		2.9	226.0	1799	3800	0.03	138.97
	2:00	16.0	13.0	20.0		2.8	224.0	1679	3800	0.03	139.36
	2:30	16.0	13.0	20.0		2.9	221.0	1743	3800	0.03	139.99
	3:00	15.5	12.5	20.0		2.9	225.0	1812	3800	0.03	139.17
	3:30	15.5	13.0	20.0		2.7	222.0	1521	3800	0.03	139.78
	4:00	15.5	13.0	20.0		2.6	223.0	1414	3800	0.03	139.58
	4:30	15.5	13.0	20.0		2.7	224.0	1567	3800	0.03	139.38

Well Gauging Data:				Before AFVR Event			After AFVR Event		
Well No.	Diameter (in)	Total Depth (ft)	Stinger Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)
MW10	2.00	20.00	14.75	12.63	14.33	1.70	none	14.61	0.00
MW30	2.00	20.00	14.00	12.19	13.62	1.43	none	14.02	0.00

AFVR Information	
Client	ATC
Equipment Operator:	RF
Blower Discharge I.D.	3 inches

Notes: Pipe ID - The inside diameter of the blower discharge piping (from vacuum truck)
Velocity - The rate at which air flows is measured at the blower discharge piping
Temperature - The temperature of the air stream exiting the blower discharge piping
Relative humidity - The & relative humidity of the air stream exiting the blower discharge piping
Water Vapor in % - Pounds of water per pound of dry air (derived from a Psychrometric chart of temp. vs relative humidity)
Flow rate = (1 - water vapor)(velocity)(Pipe Diameter/24)^2(3.14)(528°R/Temp + 460)

Total Gallons Extracted
580

DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
SITE - PANTRY #585
LOCATION - ANDERSON, SC
SCDHEC SITE ID # 12458

DIFFERENTIAL PRESSURE DATA

		Well Designation:		
		MW-16	MW-31	
Time	Elapsed Time	Differential Pressure Readings (inches of water)		
8:30	0.0	0	0	
9:00	0.5	0	1	
9:30	1.0	0	1	
10:00	1.5	1	1	
10:30	2.0	1	0	
11:00	2.5	1	1	
11:30	3.0	1	0	
12:00	3.5	1	0	
12:30	4.0	1	1	
13:00	4.5	1	0	
13:30	5.0	1	1	
14:00	5.5	1	1	
14:30	6.0	1	1	
15:00	6.5	1	1	
15:30	7.0	1	1	
16:00	7.5	1	1	
16:30	8.0	1	1	
Maximum Change:		1	1	

GROUNDWATER DRAWDOWN DATA

		Well Designation:		
		MW-16	MW-31	
Time	Elapsed Time	Depth to Liquid (feet below of casing):		
Prior toAFVR	0 hours	13.56	13.69	
	4 hours	13.64	13.77	
	8 hours	13.81	13.90	
Maximum Change:		-0.25	-0.21	

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
2. Page 1 of
3. Emergency Response Phone
4. Waste Tracking Number

5. Generator's Name and Mailing Address
Pantry 585
Anderson SC

Generator's Site Address (if different than mailing address)
Pantry Inc
c/o ATC Associates
400 NE Drive
Columbia SC

Generator's Phone:

6. Transporter 1 Company Name
VERCO

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
TK Tank
425 Boulevard Ave
Sumter SC

U.S. EPA ID Number

Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. Non Haz Water	1	st	580	gal	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Brandon Giles
Signature:
Month 11 Day 7 Year 11

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name
Signature
Month Day Year

Transporter 2 Printed/Typed Name: Robert Freeman
Signature:
Month 11 Day 7 Year 11

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

6-NHM-C-SO-1158

2-DESIGNATED FACILITY TO GENERATOR

D H E C
PROMOTE PROTECT PROSPER
C. Earl Hunter, Commissioner
Promoting and protecting the health of the public and the environment.

BRENT PUZAK
PANTRY INC
PO BOX 1410
SANFORD NC 27331-1410

JAN 2 7 2012

UST DOCKETING 33 tech

Re: **AFVR Directive**
81 Food Mart, 1502 E Greenville Hwy., Anderson, SC
UST Permit #12458; CA #42998
Release reported November 10, 1992
Aggressive Fluid Vapor Recovery Report received December 2, 2011
Anderson County

Dear Mr. Puzak:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (SCDHEC) recognizes your commitment to continue work at this site utilizing ATC Associates.

To recover free phase petroleum, and in accordance with Section 280.64 of the South Carolina Underground Storage Tank Control Regulations, implementation of three Aggressive Fluid and Vapor Recovery (AFVR) events on monitoring wells MW-10, MW-27, and MW-30 as outlined in the UST Quality Assurance Program Plan (QAPP) is necessary. Each event should be spaced about 30 days apart. A copy of SCDHEC QAPP for the Underground Storage Tank Division is available at http://www.dhec.sc.gov/environment/lwm/html/ust.htm.

The AFVR Report should be submitted within 120 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.

Cost Agreement #42998 has been approved in the amount shown on the enclosed cost agreement. ATC Associates can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. If the invoice and completed report are 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.

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 is obtained from the UST Management Division. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be preapproved by the Division for the cost to be paid. The 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 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 concerning this site, please reference UST Permit #12458 and CA #42998. If you have any questions, please contact me at (803) 896-6584 or by e-mail at minerrs@dhec.sc.gov.

Sincerely,

Read S. Miner

Read S. Miner, P.G., Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Technical (with enclosure)
ATC Associates, 400 Northeast Dr., Ste. Q, Columbia, SC 29203 (with enclosure)

Approved Cost Agreement 42998

Facility: 12458 81 FOOD MART
MINERRS
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB						
		A	EQUIPMENT	3.0000	575.00	1,725.00
		B	PERSONNEL	3.0000	290.00	870.00
17 DISPOSAL						
		A	WASTEWATER	3,000.0000	0.80	2,400.00
19 RPT/PROJECT MNGT & COORDINATIO						
		PCT	PERCENT	0.1500	14,835.00	2,225.25
23 EFR						
		A	8 HOUR EVENT	3.0000	3,000.00	9,000.00
		C	OFF GAS TREATMENT	24.0000	35.00	840.00
					Total Amount	17,060.25

D H E C
PROMOTE PROTECT PROSPER
C. Earl Hunter, Commissioner
Promoting and protecting the health of the public and the environment.

UST DOCKETING 344ch

FEB 15 2012

MR BRENT PUZAK
PANTRY INC
PO BOX 1410
SANFORD NC 27331-1410

Re: Emergency response
Former Pantry #585, 1502 East Greenville Highway, Anderson, SC
UST Permit #12458; CA #43167
Release reported November 10, 1992
Emergency response proposal received January 6, 2012
Anderson County

Dear Mr. Puzak:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed the emergency response proposal for the referenced site submitted on your behalf by ATC Associates. The proposal is approved with the following corrections/additions:

- $270.00 less for Groundwater Sample Collection- Air or Vapors Explosimeter (Item 10B). Moved to Item 18.
- $1080.00 more for Miscellaneous (Item 18). Explosimeter readings.

Cost Agreement #43167 has been approved in the amount shown on the enclosed cost agreement form for the emergency response. Emergency response activities may proceed immediately upon receipt of this letter, and must be performed by a South Carolina-Certified Underground Storage Tank Site Rehabilitation Contractor. All applicable South Carolina certification requirements apply to the activities.

Your contractor may directly bill the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Interim invoices may not be submitted for this scope of work. 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.

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 the SCDHEC is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the Department for the cost to be paid. 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. Further, SCDHEC 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 concerning this facility, please reference UST Permit #12458. If there are any questions, feel free to contact me by telephone at (803) 896-6584, by fax at (803) 896-6245, or by e-mail at minerrs@dhec.sc.gov.

Sincerely,

for:

Read S. Miner, P.G., Geologist/Hydrologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

RSM/jpp
12458.1

enc: Approved cost agreement form

cc: ATC Associates, Inc., 400 Northeast Drive, Unit Q, Columbia, SC 29203 (w/enc)
Technical file (w/enc)

D H E C
PROMOTE PROTECT PROSPER
South Carolina Department of Health
and Environmental Control

UST MANAGEMENT DIVISION
BUREAU OF LAND AND WASTE MANAGEMENT
2600 Bull Street
Columbia, SC 29201
Telephone (803) 896-6241
Fax (803) 896-6245

Date: February 14, 2012

TO: Larry Sorrell, Manager
Financial Section

FROM: Read S. Miner, P.G. for Reed Miner
Corrective Action Section

SUBJECT: Former Pantry #585, 1502 east Greenville Highway, Anderson, SC
UST Permit #12458; CA #43167
Release reported November 10, 1992
Anderson County

ATC Associates have submitted an emergency response proposal for the referenced facility on behalf of The Pantry, Inc. The proposal includes the following costs that have no SUPERB allowable rate:

-	Subcontractor initial response	1 @ $2104.63
-	Subcontractor weekly boom replacement	4 @ $1422.90
-	ATC hourly labor for oversight (2 hrs initial, 1 hr weekly)	6 @ $105.00

Since the costs are associated with an emergency response, no price quotes were secured. The Division considers these costs to be fair and reasonable for emergency response. Accordingly, the costs should be approved as a miscellaneous item under Cost Agreement #43167.

cc: Technical file (w/enc)

Approved Cost Agreement 43167

Facility: 12458 81 FOOD MART

MINERRS

PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB						
		B	PERSONNEL	5.0000	290.00	1,450.00
18 MISCELLANEOUS						
			ATC LABOR 2 HR INITIAL 1 HR WEEKLY	6.0000	105.00	630.00
			EXPLOSIMETER READINGS	12.0000	90.00	1,080.00
			SUB WEEKLY BOOM REPLACEMENT	4.0000	1,422.90	5,691.60
			SUBCONTRACTOR INITIAL RESPONSE	1.0000	2,104.63	2,104.63
19 RPT/PROJECT MNGT & COORDINATIO						
		PCT	PERCENT	0.1500	10,956.23	1,643.43
				Total Amount		12,599.66

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Engineers

400 Northeast Drive, Unit Q
Columbia, SC 29203
www.atcassociates.com
803-735-0003
Fax 803-735-0443

UST DOCKETING 35tech

UST JUL 20 2012 PROGRAM

RECEIVED JUL 20 2012 SC DHEC BUREAU OF LAND & WASTE MGT.

July 10, 2012

Mr. Read S. Miner, P.G., Hydrogeologist
SCDHEC – UST Program
Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201-1708

Re: Aggressive Fluid Vapor Recovery Activities
Former Pantry #585 (81 Food Mart)
1502 East Greenville Highway
Anderson, South Carolina
UST Permit #12458
Cost Agreement #42998

Dear Mr. Miner:

As per your directive letter dated January 27, 2012, ATC Associates Inc. (ATC) scheduled three aggressive fluid vapor recovery (AFVR) events at the former Pantry #585 / 81 Food Mart. This scope of work was conducted under the South Carolina Department of Health and Environmental Control (SCDHEC) Underground Storage Tank (UST) cost agreement #42998.

On March 8, 2012, ATC personnel oversaw AFVR activities, which were conducted by Versatile Environmental Resource Company (VERCO) personnel, using Monitor Wells MW-10 and MW-30 as the extraction points. Prior to the beginning of the AFVR event, approximately 0.01 and 1.27 feet of liquid phase hydrocarbons (LPH) were observed in Monitor Wells MW-10 and MW-30, respectively. The event was conducted for eight hours simultaneously with off-gas treatment, and emission and groundwater drawdown data was collected approximately every thirty minutes. Monitor Well MW-31 was monitored for groundwater drawdown data. Approximately 923 gallons of liquid were removed during the March 8, 2012 event. Based on the emissions calculations, approximately 216.75 pounds (or approximately 35.19 equivalent gallons) of hydrocarbons were removed from Monitor Wells MW-10 and MW-30. LPH were not observed in Monitor Wells MW-10 and MW-30 at the conclusion of the AFVR event.

On April 26, 2012, ATC personnel oversaw AFVR activities, which were conducted by VERCO personnel, using Monitor Wells MW-10 and MW-30 as the extraction points. Prior to the beginning of the AFVR event, approximately 0.02 and 0.18 feet of LPH were observed in Monitor Wells MW-10 and MW-30, respectively. The event was conducted for eight hours simultaneously with off-gas treatment, groundwater drawdown data readings (conducted at Monitor Wells MW-5 and MW-12), and emissions data reading being collected approximately every thirty minutes. Approximately 851 gallons of liquid

DAVIDSON

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Engineers

400 Northeast Drive, Unit Q
Columbia, SC 29203
www.atcassociates.com
803-735-0003
Fax 803-735-0443

were removed during the second AFVR event, and approximately 182.80 pounds of hydrocarbons (or approximately 29.68 equivalent gallons) were removed from Monitor Wells MW-10 and MW-30. LPH were not observed in Monitor Wells MW-10 and MW-30 at the conclusion of the AFVR event.

On June 5, 2012, ATC personnel oversaw AFVR activities, which were conducted by VERCO personnel, using Monitor Wells MW-10 and MW-30 as the extraction points. Prior to the beginning of the AFVR event, approximately 0.03 feet of LPH were observed in Monitor Well MW-27. The event was conducted for eight hours simultaneously with off-gas treatment and groundwater drawdown data readings (conducted at Monitor Wells MW-1, MW-9, and MW-30) and emissions data readings being collected approximately every thirty minutes. Approximately 637 gallons of liquid were removed during the third AFVR event and approximately 47.61 pounds of hydrocarbons (or approximately 7.73 equivalent gallons) were removed from Monitor Well MW-27. LPH were not observed in Monitor Well MW-27.

A site location map and site map are presented as Figures 1 and 2, respectively. Historical groundwater and LPH levels are presented in Table I along with an emissions table presented as Table II.

It should be noted that ATC was unable to extract from Monitor Wells MW-10, MW-27, and MW-30 simultaneously during the AFVR events due to the distance between the extraction wells and a commercial business that is currently in operation at the site.

ATC recommends additional AFVR events be conducted at Monitor MW-10, MW-27, and MW-30 to further reduce and remove LPH. The events should be conducted every thirty days. Should you have any questions or require additional information, please contact me at 803-735-0003.

Sincerely,
ATC Associates Inc.
UST Site Rehabilitation Contractor #313

Jesse J. Keeffe, Jr., P.G.
Staff Geologist

Fred Lyke, P.G. #1055
Branch Manager

Attachments

cc: Mr. Bernd Puzak, The Pantry, Inc.

APPENDIX
TABLE/FIGURES

TABLE I

Historical Groundwater Data

Former Pantry Store #585 (81 Food Mart) / Anderson, South Carolina

Date	MW-1			MW-5			MW-10			MW-12			MW-30		
	Depth to Product (ft.)	Depth to Water (ft.)	Free Product Thickness (ft.)	Depth to Product (ft.)	Depth to Water (ft.)	Free Product Thickness (ft.)	Depth to Product (ft.)	Depth to Water (ft.)	Free Product Thickness (ft.)	Depth to Product (ft.)	Depth to Water (ft.)	Free Product Thickness (ft.)	Depth to Product (ft.)	Depth to Water (ft.)	Free Product Thickness (ft.)
9/1/11	NM	NM	NM	NM	NM	NM	12.3	13.03	0.73	NM	NM	NM	11.48	13.58	1.1
*9/11/11	NM	NM	NM	NM	NM	NM	---	13.98	---	NM	NM	NM	---	13.83	---
10/6/11	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
*10/6/11	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
11/7/11	NM	NM	NM	NM	NM	NM	12.63	14.33	1.7	NM	NM	NM	12.19	13.62	1.43
*11/7/11	NM	NM	NM	NM	NM	NM	---	14.61	---	NM	NM	NM	---	14.02	---
3/8/12	NM	NM	NM	NM	NM	NM	11.25	11.26	0.01	NM	NM	NM	10.65	11.92	1.27
*3/8/12	NM	NM	NM	NM	NM	NM	---	13.95	---	NM	NM	NM	---	12.39	---
4/26/12	NM	NM	NM	---	10.8	---	10.81	10.83	0.02	---	12.81	---	11.27	11.45	0.18
*4/26/12	NM	NM	NM	---	11.12	---	---	12.47	---	---	13.21	---	---	12.3	---
6/5/12	---	12.53	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	---	11.71	---
*6/5/12	---	12.83	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	---	11.98	---

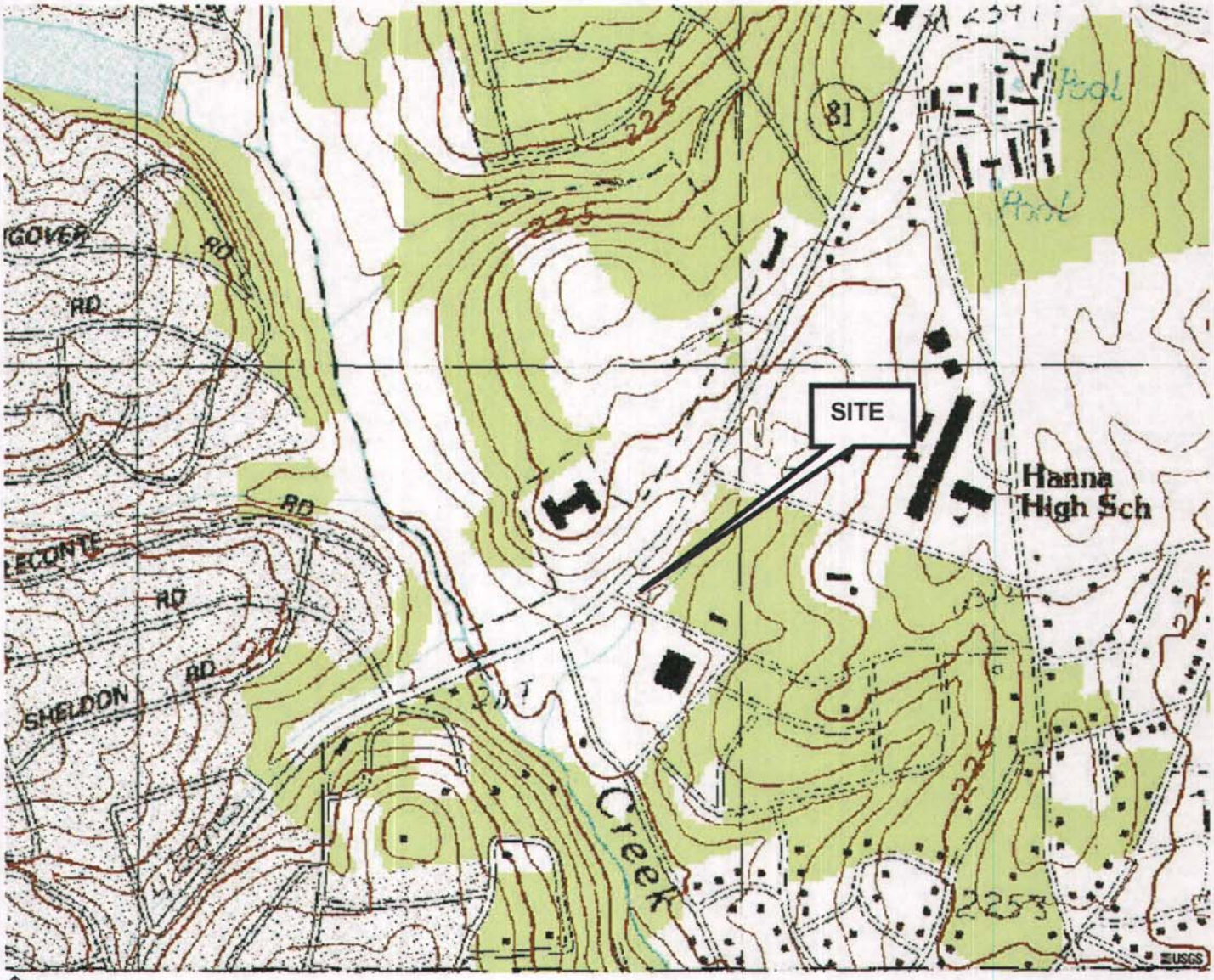
*Reading at the conclusion of the AFVR event;
NM = Not Measured; --- = Not Present

TABLE I (Continued)
Historical Groundwater Data
Former Pantry Store #585 (81 Food Mart) / Anderson, South Carolina

Date	MW-16			MW-26			MW-27			MW-30			MW-31		
	Depth to Product (ft.)	Depth to Water (ft.)	Free Product Thickness (ft.)	Depth to Product (ft.)	Depth to Water (ft.)	Free Product Thickness (ft.)	Depth to Product (ft.)	Depth to Water (ft.)	Free Product Thickness (ft.)	Depth to Product (ft.)	Depth to Water (ft.)	Free Product Thickness (ft.)	Depth to Product (ft.)	Depth to Water (ft.)	Free Product Thickness (ft.)
9/1/11	---	13.52	---	NM	NM	NM	NM	NM	NM	11.48	13.58	1.1	---	13.66	---
*9/1/11	---	13.79	---	NM	NM	NM	NM	NM	NM	---	13.83	---	---	13.89	---
10/6/11	---	12.97	---	12.28	12.91	0.72	12.24	12.99	0.75	NM	NM	NM	NM	NM	NM
*10/6/11	---	13.06	---	---	13.01	---	---	13.9	---	NM	NM	NM	NM	NM	NM
11/7/11	---	13.56	---	NM	NM	NM	NM	NM	NM	12.19	13.62	1.43	---	13.69	---
*11/7/11	---	13.81	---	NM	NM	NM	NM	NM	NM	---	14.02	---	---	13.9	---
3/8/12	NM	NM	NM	NM	NM	NM	NM	NM	NM	10.65	11.92	1.27	---	10.34	---
*3/8/12	NM	NM	NM	NM	NM	NM	NM	NM	NM	---	12.39	---	---	10.97	---
4/26/12	NM	NM	NM	NM	NM	NM	NM	NM	NM	11.27	11.45	0.18	NM	NM	NM
*4/26/12	NM	NM	NM	NM	NM	NM	NM	NM	NM	---	12.3	---	NM	NM	NM
6/5/12	NM	NM	NM	NM	NM	NM	11.5	11.53	0.03	---	11.71	---	NM	NM	NM
*6/5/12	NM	NM	NM	NM	NM	NM	---	13.23	---	---	11.98	---	NM	NM	NM

*Reading at the conclusion of the AFVR event;
NM = Not Measured; --- = Not Present

TABLE II Hydrocarbon Emissions Data Former Pantry Store 585 / Anderson, South Carolina				
AFVR Event #	Date	Calculated gallons of hydrocarbons Extracted	Calculated Pounds of Hydrocarbons Extracted	Total Gallons Fluid Extracted
1	9/1/11	16.77	103.30	928
2	10/6/11	22.20	136.78	906
3	11/7/11	25.69	158.26	580
4	3/8/12	35.19	216.75	923
5	4/26/12	29.68	182.80	851
6	6/5/12	7.73	47.61	637
Total		137.26	845.50	4825



↑N

Figure 1: Site Location Map
Pantry #585 (81 Food Mart)
1502 East Greenville Street
Anderson, South Carolina
UST Permit #12458

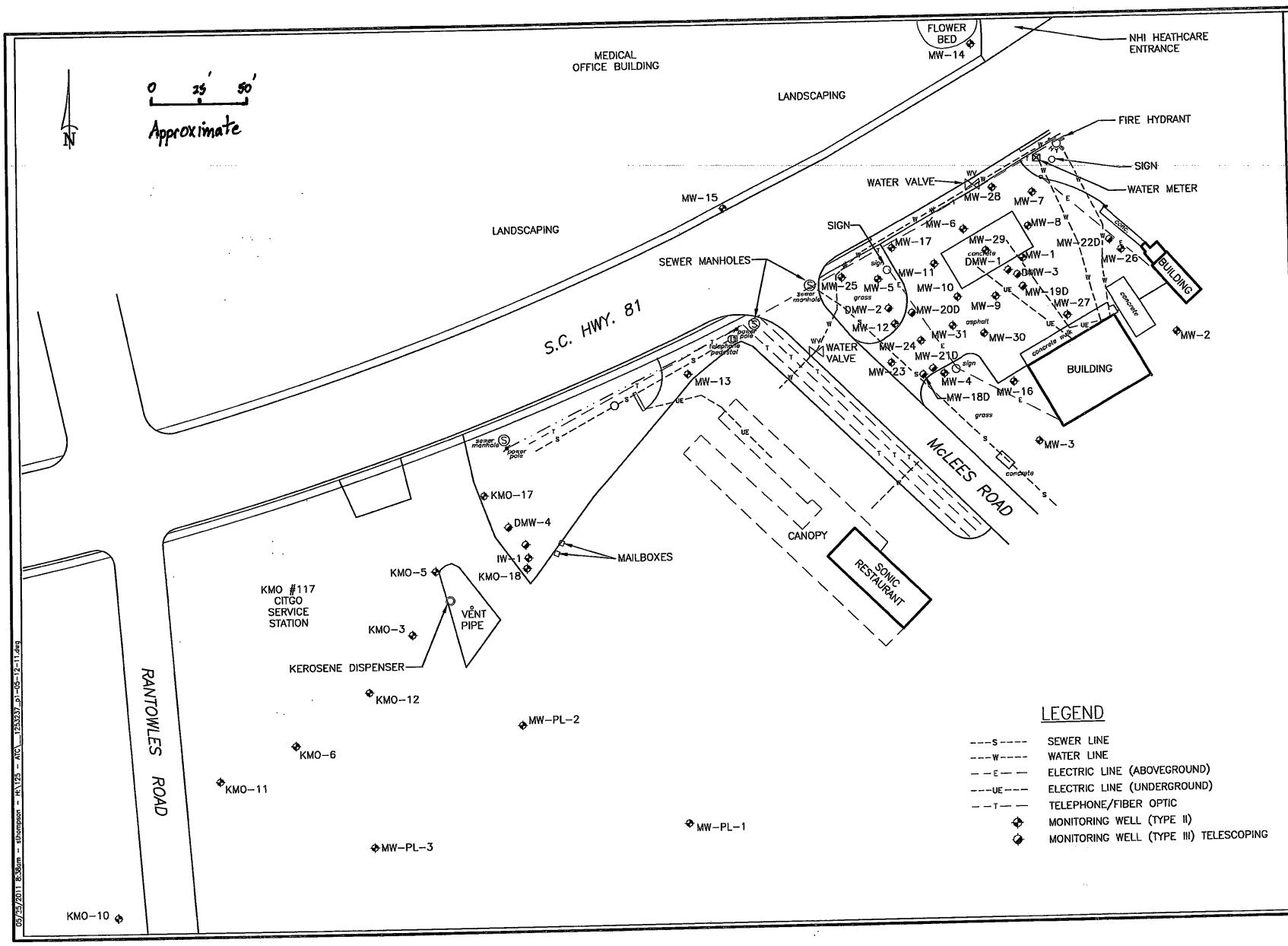
ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q
Columbia, South Carolina
Phone (803) 735-0003
Fax (803) 735-0443

ATC PROJECT No: 14.25384.0585

SOURCE: USGS Topographic Map Anderson, SC Quadrangle

1"= 885'



ATC ASSOCIATES INC.
Columbia, South Carolina 29203 (803) 735-0003 FAX (803) 735-0443

TITLE FIGURE 2
SITE MAP
PANTRY #585 (81 Food Mart)
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

UST PERMIT #12458

CAD FILE	TYPE CODE	PREP. BY	REV. BY	SCALE	DATE	PROJECT NO.
1253237.dwg		CW		1" = 50'	05-11-2011	89.25384.0585

NOTES:

05/25/2011 8:36am - sthompson - H:\125 - ATC_1253237_p1-05-12-11.dwg

AFVR Summary Reports

AFVR MONITORING DATA
Site Name: Pantry #585
Site Location: Anderson, SC
3/8/2012

Start Weather: 51 degrees F,
Finish Weather: 68 degrees F

Extraction Well	Time (hh:mm)	Extraction Well Head Vacuum (in. Hg)				Vacuum Truck Exhaust					
		MW10	MW30	Truck		Relative Humidity	Temp (°F)	Concentration (PPM)	Offgas Velocity Ft/Min	Water Vapor (%)	Flow Rate (DSCFM)
MW30,MW10	8:30										
	9:00	16.0	13.0	20.0		11.1	143.0	3896	2900	0.02	121.90
	9:30	17.0	14.0	20.0		6.9	189.0	3154	3300	0.03	127.56
	10:00	17.0	14.0	20.0		3.4	200.0	2876	3300	0.02	126.73
	10:30	16.0	14.0	20.0		3.3	208.0	2752	3330	0.02	126.35
	11:00	16.0	14.0	20.0		3.3	207.0	2681	3300	0.02	125.40
	11:30	15.0	13.0	21.0		3.3	205.0	2507	3400	0.02	129.59
	12:00	16.0	14.0	20.0		3.2	205.0	2521	3400	0.02	129.59
	12:30	16.0	14.0	21.0		3.2	204.0	2484	3400	0.02	129.79
	1:00	16.0	14.0	21.0		3.2	204.0	2599	3400	0.02	129.79
	1:30	16.0	14.0	21.0		3.2	203.0	2632	3400	0.02	129.98
	2:00	16.0	13.0	20.0		3.2	203.0	2411	3400	0.02	129.98
	2:30	16.0	14.0	20.0		3.1	203.0	2536	3400	0.02	129.98
	3:00	16.0	14.0	20.0		3.1	203.0	2457	3400	0.02	129.98
	3:30	16.0	14.0	20.0		3.1	202.0	2396	3400	0.02	130.18
	4:00	16.0	14.0	20.0		3.1	202.0	2351	3400	0.02	130.18
	4:30	16.0	14.0	20.0		3.1	202.0	2141	3400	0.02	130.18

Well Gauging Data:				Before AFVR Event			After AFVR Event		
Well No.	Diameter (in)	Total Depth (ft)	Stinger Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)
MW30	2.00	20.00	12.50	10.65	11.92	1.27	none	12.39	0.00
MW10	2.00	20.00	13.00	11.25	11.26	0.01	none	13.95	0.00

AFVR Information	
Client	ATC
Equipment Operator:	RF
Blower Discharge I.D.	3 inches

Notes: Pipe ID - The inside diameter of the blower discharge piping (from vacuum truck)
Velocity - The rate at which air flows is measured at the blower discharge piping
Temperature - The temperature of the air stream exiting the blower discharge piping
Relative humidity - The & relative humidity of the air stream exiting the blower discharge piping
Water Vapor in % - Pounds of water per pound of dry air (derived from a Psychrometric chart of temp. vs relative humidity)
Flow rate = (1 - water vapor)(velocity)(Pipe Diameter/24)^2(3.14)(528°R/Temp + 460)

Total Gallons Extracted
923

Site Name: Pantry #585
Location: Anderson, SC
Date: 3/8/12

EMISSION CALCULATION

Elapsed Time (min)	Flow Rate (DSCFM)	Concentration (ppm)	K (#C - gas)	PPMg (ppm)	Cg:m (mg/dsm^3)	Cg (lbs/dscf)	PMRg (lb/hr)	PMR (lb)
0								
30	121.90	3896	4	15584	82906.88	0.005175877	37.856361	18.92818
60	127.56	3154	4	12616	67117.12	0.004190122	32.069516	16.0347581
90	126.73	2878	4	11512	61243.84	0.003823453	29.072771	14.536386
120	126.35	2752	4	11008	58562.56	0.003656061	27.7165956	13.858298
150	125.40	2681	4	10724	57051.68	0.003561736	26.798505	13.399252
180	129.59	2507	4	10028	53348.96	0.003330576	25.89656	12.948279
210	129.59	2521	4	10084	53646.88	0.003349175	26.041173	13.020587
240	129.79	2484	4	9936	52859.52	0.00330002	25.698574	12.849287
270	129.79	2599	4	10396	55306.72	0.003452799	26.888323	13.444162
300	129.98	2632	4	10528	56008.96	0.003496639	27.269591	13.634796
330	129.98	2411	4	9644	51306.08	0.003203039	24.979857	12.489929
360	129.98	2536	4	10144	53966.08	0.003369102	26.274956	13.137478
390	129.98	2457	4	9828	52284.96	0.00326415	25.456453	12.728227
420	130.18	2396	4	9584	50986.88	0.003183111	24.862643	12.431321
450	130.18	2351	4	9404	50029.28	0.003123328	24.39569	12.197845
480	130.18	2141	4	8564	45560.48	0.002844341	22.216577	11.108288
					Total Emissions in pounds			216.74707
					Equivalent Gallons (vapor)			35.186213

Equations: PPMg = PPM (measured) x K Mg = 128 mg/mg-mole (molecular weight of gasoline)

Cg:m = PPMg x (Mg/K_3) mass conc. of gasoline emission

Cg = (Cg:m)(62.43×10^{-9} $lb\text{-}m^3/mg\text{-}ft^3$) mass concentration of gasoline emission

PMRg = (Cg)(Q_{std})(60 min/hr) mass removal rate of gasoline emission

PMR = PMRg {(T2-T1)/60} (mass removal rate of gasoline over time)

K = Number of carbons in calibration gas

K_3 = 24.07 $dsm^3/1 \times 10^6$ mg-mole (mass to volume conversion factor)

DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
SITE - Pantry #585
LOCATION - Anderson, SC

Date: 3/8/12

DIFFERENTIAL PRESSURE DATA

		Well Designation:		
		MW31		
Time	**Elapsed Time**	**Differential Pressure Readings (inches of water)**		
8:30	0.0	0.0		
9:00	0.5	1.0		
9:30	1.0	1.0		
10:00	1.5	1.0		
10:30	2.0	1.0		
11:00	2.5	1.0		
11:30	3.0	1.0		
12:00	3.5	1.0		
12:30	4.0	1.0		
1:00	4.5	1.0		
1:30	5.0	1.0		
2:00	5.5	1.0		
2:30	6.0	1.0		
3:00	6.5	1.0		
3:30	7.0	1.0		
4:00	7.5	1.0		
4:30	8.0	1.0		
Maximum Change:		**1.0**		

GROUNDWATER DRAWDOWN DATA

		Well Designation:		
		MW31		
Time	**Elapsed Time**	**Depth to Liquid (feet below of casing):**		
Prior to AFVR	0 hours	10.34		
	4 hours	10.79		
	8 hours	10.97		
Maximum Change:		**0.63**		

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
2. Page 1 of
3. Emergency Response Phone
4. Waste Tracking Number

5. Generator's Name and Mailing Address
Pentry 585
1502 East Greenville Street
Anderson SC 29621
Generator's Phone:

Generator's Site Address (if different than mailing address)
The Pantry Inc
C/O ATC
400 Northeast Dr
Columbia SC

6. Transporter 1 Company Name: VE RCG
U.S. EPA ID Number

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
TK Tank
425 Boulevard Rd
Sumter SC
Facility's Phone:
U.S. EPA ID Number

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. Non Haz Water	1	ST	923	GAL	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Generator's/Offeror's Printed/Typed Name: Brandon Grubbs
Signature:
Month 3 Day 8 Year 12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Robert Freeman
Signature:
Month 3 Day 8 Year 12
Transporter 2 Printed/Typed Name
Signature
Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Steve A. Gamble
Signature:
Month 3 Day 15 Year 12

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

6-NHM-C-SO-1158

2-DESIGNATED FACILITY TO GENERATOR

AFVR MONITORING DATA
Site Name: Pantry #585
Site Location: Anderson, SC
4/26/2012

Start Weather: 63 degrees F,
Finish Weather: 86 degrees F

Extraction Well	Time (hh:mm)	Extraction Well Head Vacuum (in. Hg)				Vacuum Truck Exhaust					
		MW10	MW30	Truck		Relative Humidity	Temp (°F)	Concentration (PPM)	Offgas Velocity Ft/Min	Water Vapor (%)	Flow Rate (DSCFM)
MW30,MW10	8:30	15.0	10.0	20.0							
	9:00	15.0	12.0	21.0		1.9	235.0	2524	4000	0.05	141.41
	9:30	14.0	10.0	20.0		1.9	242.0	3317	4000	0.06	139.27
	10:00	15.0	10.0	22.0		1.7	250.0	2546	4000	0.04	140.61
	10:30	15.0	12.0	22.0		1.6	256.0	2020	4000	0.04	138.71
	11:00	14.0	12.0	22.0		1.6	257.0	2110	3900	0.04	135.76
	11:30	15.0	12.0	22.0		1.6	259.0	1965	4000	0.04	138.85
	12:00	16.0	13.0	23.0		1.5	260.0	1932	3900	0.04	135.19
	12:30	15.0	12.0	23.0		1.7	262.0	1953	4000	0.04	138.27
	1:00	14.0	13.0	23.0		1.6	258.0	1969	4000	0.04	139.04
	1:30	14.0	12.0	24.0		1.6	263.0	1937	4000	0.04	138.06
	2:00	15.0	12.0	23.0		1.6	261.0	1854	3900	0.04	135.00
	2:30	15.0	12.0	24.0		1.5	264.0	1908	4000	0.04	137.89
	3:00	14.0	12.0	23.0		1.6	263.0	1898	3900	0.04	134.63
	3:30	15.0	12.0	23.0		1.6	264.0	1929	4000	0.04	137.89
	4:00	15.0	12.0	23.0		1.5	260.0	1732	3900	0.04	135.19
	4:30	15.0	13.0	23.0		1.5	258.0	1687	3900	0.04	135.57

Well Gauging Data:				Before AFVR Event			After AFVR Event		
Well No.	Diameter (in)	Total Depth (ft)	Stinger Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)
MW30	2.00	20.00	12.00	11.27	11.45	0.18	none	12.30	0.00
MW10	2.00	20.00	11.25	10.81	10.83	0.02	none	12.47	0.00

AFVR Information	
Client	ATC
Equipment Operator:	RF
Blower Discharge I.D.	3 inches

Notes: Pipe ID - The inside diameter of the blower discharge piping (from vacuum truck)
Velocity - The rate at which air flows is measured at the blower discharge piping
Temperature - The temperature of the air stream exiting the blower discharge piping
Relative humidity - The & relative humidity of the air stream exiting the blower discharge piping
Water Vapor in % - Pounds of water per pound of dry air (derived from a Psychrometric chart of temp, vs relative humidity)
Flow rate = (1 - water vapor)(velocity)(Pipe Diameter/24)^2(3.14)(528°R/Temp + 460)

Total Gallons Extracted
891

Site Name: Pantry #585
Location: Anderson, SC
Date: 4/26/12

EMISSION CALCULATION

Elapsed Time (min)	Flow Rate (DSCFM)	Concentration (ppm)	K (#C - gas)	PPMg (ppm)	Cg:m (mg/dsm^3)	Cg (lbs/dscf)	PMRg (lb/hr)	PMR (lb)
0								
30	141.41	2524	4	10096	53710.72	0.00335316	28.450223	14.225112
60	139.27	3317	4	13268	70585.76	0.004406669	36.823007	18.4115037
90	140.61	2546	4	10184	54178.88	0.003382387	28.53585	14.267925
120	138.71	2020	4	8080	42985.6	0.002683591	22.3344545	11.167227
150	135.76	2110	4	8440	44900.8	0.002803157	22.833395	11.416698
180	138.85	1965	4	7860	41815.2	0.002610523	21.74827	10.874133
210	135.19	1932	4	7728	41112.96	0.002566682	20.819385	10.409693
240	138.27	1953	4	7812	41559.84	0.002594581	21.525161	10.762581
270	139.04	1969	4	7876	41900.32	0.002615837	21.822358	10.911179
300	138.08	1937	4	7748	41219.36	0.002573325	21.31948	10.65974
330	135.00	1854	4	7416	39453.12	0.002463058	19.950772	9.975386
360	137.89	1908	4	7632	40602.24	0.002534798	20.971396	10.485698
390	134.63	1898	4	7592	40389.44	0.002521513	20.368276	10.184138
420	137.89	1929	4	7716	41049.12	0.002562697	21.202214	10.601107
450	135.19	1732	4	6928	36856.96	0.00230098	18.664169	9.3320846
480	135.57	1687	4	6748	35899.36	0.002241197	18.230345	9.1151725
					Total Emissions in pounds			182.79938
					Equivalent Gallons (vapor)			29.675224

Equations: PPMg = PPM (measured) x K Mg = 128 mg/mg-mole (molecular weight of gasoline)

Cg:m = PPMg x (Mg/K_3) mass conc. of gasoline emission

Cg = (Cg:m)(62.43×10^{-9} $lb\text{-}m^3/mg\text{-}ft^3$) mass concentration of gasoline emission

PMRg = (Cg)(Q_{std})(60 min/hr) mass removal rate of gasoline emission

PMR = PMRg {(T2-T1)/60} (mass removal rate of gasoline over time)

K = Number of carbons in calibration gas

K_3 = 24.07 $dsm^3/1 \times 10^6$ mg-mole (mass to volume conversion factor)

DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
SITE - Pantry 525
LOCATION - Anderson SC

Date: 4-26-12

DIFFERENTIAL PRESSURE DATA

		Well Designation:		
		MW12	MW5	
Time	Elapsed Time	Differential Pressure Readings (inches of water)		
8:30	0.0			
9:00	0.5	1.0	0.1	
9:30	1.0	1.0	0.2	
10:00	1.5	1.0	0.2	
10:30	2.0	1.0	0.2	
11:00	2.5	1.0	0.2	
11:30	3.0	1.0	0.2	
12:00	3.5	1.0	0.2	
12:30	4.0	1.0	0.2	
1:00	4.5	1.0	0.2	
1:30	5.0	1.0	0.2	
2:00	5.5	1.0	0.2	
2:30	6.0	1.0	0.2	
3:00	6.5	1.0	0.2	
3:30	7.0	1.0	0.2	
4:00	7.5	1.0	0.2	
4:30	8.0	1.0	0.2	
Maximum Change:		**1.0**	**0.2**	

GROUNDWATER DRAWDOWN DATA

		Well Designation:		
Time	Elapsed Time	Depth to Liquid (feet below of casing):		
Prior to AFVR	0 hours	10.80	12.81	
	4 hours	11.08	13.18	
	8 hours	11.12	13.21	
Maximum Change:		**0.32**	**0.40**	

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
2. Page 1 of
3. Emergency Response Phone
4. Waste Tracking Number

5. Generator's Name and Mailing Address: Pantry 585, Two Greenville Street, Anderson SC

Generator's Site Address (if different than mailing address): Pantry Inc c/o ATC, 400 Northeast Dr, Columbia SC

Generator's Phone:

6. Transporter 1 Company Name: VERG — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: TIC TANK, 425 Boulevard Rd, Sumter SC — U.S. EPA ID Number

Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. Non Haz Water	1	ST	851	GAL	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: William Fore — Signature: William Fore — Month: 4 Day: 26 Year: 12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: [illegible] — Signature: [illegible] — Month: 4 Day: 26 Year: 12

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Tommy Keels — Signature: Tommy Keels — Month: 4 Day: 26 Year: 12

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

6-NHM-C-SO-1158

5- TRANSPORTER'S COPY

AFVR MONITORING DATA
Site Name: Pantry #585
Site Location: Anderson, SC
6/5/2012
SCDHEC Site ID# 12458

Start Weather: 65 degrees F,
Finish Weather: 88 degrees F

Extraction Well	Time (hh:mm)	Extraction Well Head Vacuum (in. Hg)				Vacuum Truck Exhaust					
		MW27		Truck		Relative Humidity	Temp (°F)	Concentration (PPM)	Offgas Velocity Ft/Min	Water Vapor (%)	Flow Rate (DSCFM)
MW27	8:30										
	9:00	16.0		20.0		3.1	218.0	943	3300	0.02	123.37
	9:30	15.0		20.0		2.3	236.0	752	3300	0.02	120.18
	10:00	15.0		21.0		2.1	240.0	544	3300	0.02	119.49
	10:30	15.0		21.0		1.8	245.0	638	3300	0.02	118.64
	11:00	14.0		22.0		1.7	243.0	785	3300	0.02	118.96
	11:30	14.0		21.0		1.8	250.0	614	3300	0.02	117.81
	12:00	15.0		21.0		1.6	247.0	769	3300	0.02	118.31
	12:30	14.0		21.0		1.7	249.0	546	3300	0.02	117.97
	1:00	14.0		22.0		1.7	251.0	623	3300	0.02	117.64
	1:30	14.0		21.0		1.7	254.0	522	3300	0.02	117.15
	2:00	14.0		22.0		1.6	253.0	502	3300	0.02	117.31
	2:30	14.0		21.0		1.7	254.0	568	3300	0.02	117.15
	3:00	14.0		21.0		1.5	254.0	574	3300	0.02	117.15
	3:30	14.0		21.0		1.7	255.0	598	3300	0.02	116.98
	4:00	14.0		21.0		1.6	254.0	623	3300	0.02	117.15
	4:30	14.0		22.0		1.6	251.0	476	3300	0.02	117.64

Well Gauging Data:				Before AFVR Event			After AFVR Event		
Well No.	Diameter (in)	Total Depth (ft)	Stinger Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)
MW27	2.00	20.00	12.00	11.50	11.53	0.03	NONE	13.23	0.00

AFVR Information	
Client	ATC
Equipment Operator:	RF
Blower Discharge I.D.	3 inches

Notes: Pipe ID - The inside diameter of the blower discharge piping (from vacuum truck)
Velocity - The rate at which air flows is measured at the blower discharge piping
Temperature - The temperature of the air stream exiting the blower discharge piping
Relative humidity - The % relative humidity of the air stream exiting the blower discharge piping
Water Vapor in % - Pounds of water per pound of dry air (derived from a Psychrometric chart of temp. vs relative humidity)
Flow rate = (1 - water vapor)(velocity)(Pipe Diameter/24)^2(3.14)(528°R/Temp + 460)

Total Gallons Extracted
637

Site Name: Pantry #585
Location: Anderson, SC
Date: 6/5/12
UST#12458

EMISSION CALCULATION

Elapsed Time (min)	Flow Rate (DSCFM)	Concentration (ppm)	K (#C - gas)	PPMg (ppm)	Cg:m (mg/dsm^3)	Cg (lbs/dscf)	PMRg (lb/hr)	PMR (lb)
0								
30	123.37	943	4	3772	20067.04	0.001252785	9.2733674	4.6366837
60	120.18	752	4	3008	16002.56	0.00099904	7.2038763	3.6019382
90	119.49	544	4	2176	11576.32	0.00072271	5.1813946	2.5906973
120	118.64	638	4	2552	13576.64	0.00084759	6.0334821	3.016741
150	118.98	785	4	3140	16704.8	0.001042881	7.4449165	3.7224582
180	117.81	614	4	2456	13065.92	0.000815705	5.76590	2.8829475
210	118.31	769	4	3076	16364.32	0.001021624	7.2521037	3.626052
240	117.97	546	4	2184	11618.88	0.000725367	5.1342904	2.5671452
270	117.64	623	4	2492	13257.44	0.000827662	5.8419693	2.9209847
300	117.15	522	4	2088	11108.16	0.000693482	4.874488	2.437244
330	117.31	502	4	2008	10682.56	0.000666912	4.6941284	2.3470642
360	117.15	568	4	2272	12087.04	0.000754594	5.3040406	2.652020
390	117.15	574	4	2296	12214.72	0.000762565	5.3600692	2.6800346
420	116.98	598	4	2392	12725.44	0.000794449	5.5760802	2.7880401
450	117.15	623	4	2492	13257.44	0.000827662	5.8176361	2.908818
480	117.64	476	4	1904	10129.28	0.000632371	4.4635271	2.2317636
					Total Emissions in pounds			47.610632
					Equivalent Gallons (vapor)			7.7289988

Equations: PPMg = PPM (measured) x K Mg = 128 mg/mg-mole (molecular weight of gasoline)

Cg:m = PPMg x (Mg/K_3) mass conc. of gasoline emission

Cg = (Cg:m)(62.43×10^{-8} $lb\text{-}m^3/mg\text{-}ft^3$) mass concentration of gasoline emission

PMRg = (Cg)(Q_{std})(60 min/hr) mass removal rate of gasoline emission

PMR = PMRg {(T2-T1)/60} (mass removal rate of gasoline over time)

K = Number of carbons in calibration gas

K_3 = 24.07 $dsm^3/1 \times 10^6$ mg-mole (mass to volume conversion factor)

DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
SITE - Pantry 585
LOCATION - Anderson, SC
SCDHEC SITE ID 12458
Date: 6/5/12

DIFFERENTIAL PRESSURE DATA

		Well Designation:		
		MW1	MW9	MW30
Time	Elapsed Time	Differential Pressure Readings (inches of water)		
8:30	0.0			
9:00	0.5	0.2	0.3	0.0
9:30	1.0	0.2	0.4	0.0
10:00	1.5	0.3	0.5	0.1
10:30	2.0	0.3	0.5	0.1
11:00	2.5	0.3	0.5	0.1
11:30	3.0	0.3	0.5	0.2
12:00	3.5	0.3	0.5	0.2
12:30	4.0	0.3	0.5	0.2
1:00	4.5	0.3	0.5	0.2
1:30	5.0	0.3	0.5	0.2
2:00	5.5	0.3	0.5	0.2
2:30	6.0	0.3	0.5	0.2
3:00	6.5	0.3	0.5	0.2
3:30	7.0	0.3	0.5	0.2
4:00	7.5	0.3	0.5	0.2
4:30	8.0	0.3	0.5	0.2
Maximum Change:		0.3	0.5	0.2

GROUNDWATER DRAWDOWN DATA

		Well Designation:		
Time	Elapsed Time	Depth to Liquid (feet below of casing):		
Prior to AFVR	0 hours	12.53	11.85	11.71
12:30	4 hours	12.76	12.79	11.90
4:30	8 hours	12.83	12.87	11.98
Maximum Change:		0.30	0.92	0.27

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
2. Page 1 of
3. Emergency Response Phone
4. Waste Tracking Number

5. Generator's Name and Mailing Address
Pantry 585
1502 Greenville Road
Anderson SC

Generator's Site Address (if different than mailing address)
C/o ATC
400 Northwest Dr
Columbia SC

Generator's Phone:

6. Transporter 1 Company Name: VERCO
U.S. EPA ID Number:

7. Transporter 2 Company Name
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
TTC TAMC
425 Boulevard Rd
Sumter SC
U.S. EPA ID Number:

Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. Non Haz Water	1	ST	637	GAL	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: William Fogle
Signature: William Fogle
Month 6 Day 5 Year 12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Robert Freeman
Signature:
Month 6 Day 5 Year 12

Transporter 2 Printed/Typed Name
Signature
Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Steve A. Gamble
Signature: Steve A. Gamble
Month 6 Day 12 Year 12

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

6-NHM-C-SO-1158

2-DESIGNATED FACILITY TO GENERATOR

ATC ASSOCIATES INC.
Environmental, Geotechnical and Materials Engineers

400 Northeast Drive, Unit Q
Columbia, SC 29203
www.atcassociates.com
803-735-0003
Fax 803-735-0443

AGGRESSIVE FLUID VAPOR RECOVERY ACTIVITIES

Former Pantry #585 (81 Food Mart)
1502 East Greenville Highway
Anderson, South Carolina
UST Permit #12458
Cost Agreement #42998

D H E C
PROMOTE PROTECT PROSPER
Catherine B. Templeton, Director
Promoting and protecting the health of the public and the environment

BRENT PUZAK
PANTRY INC
PO BOX 1410
SANFORD NC 27331-1410

OCT 2 3 2012

UST 36tech DOCKETING

Re: **AFVR Directive**
81 Food Mart, 1502 E Greenville Hwy., Anderson, SC
UST Permit #12458; CA #44719
Release reported November 10, 1992
Aggressive Fluid Vapor Recovery Report received July 20, 2012
Anderson County

Dear Mr. Puzak:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) recognizes your commitment to continue work at this site utilizing ATC Associates.

To recover free phase petroleum, and in accordance with Section 280.64 of the South Carolina Underground Storage Tank Control Regulations, implementation of three Aggressive Fluid and Vapor Recovery (AFVR) events as outlined in the UST Quality Assurance Program Plan (QAPP) is necessary. The wells to be included during each event should be determined by gauging and determining which wells contain the greatest thickness of free product during each event. Each event should be spaced about 30 days apart. A copy of Agency QAPP for the Underground Storage Tank Division is available at http://www.scdhec.sc.gov/environment/lwm/usthome/Qapp.htm.

The AFVR Report should be submitted within 120 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.

Cost Agreement #44719 has been approved in the amount shown on the enclosed cost agreement. ATC Associates can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. If the invoice and completed report are 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.

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 is obtained from the Agency. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be preapproved by the Agency for the cost to be paid. The Agency 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 Agency 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.

The Agency grants preapproval for transportation of virgin petroleum-contaminated groundwater from the referenced site to a permitted treatment facility.

On all correspondence concerning this site, please reference UST Permit #12458 and CA #44719. If you have any questions, please contact me at (803) 896-6584 or by e-mail at minerrs@dhec.sc.gov.

Sincerely,

Read S. Miner

Read S. Miner, P.G., Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Technical (with enclosure)
ATC Associates, 400 Northeast Dr., Ste. Q, Columbia, SC 29203 (with enclosure)

Approved Cost Agreement 44719

Facility: 12458 81 FOOD MART

MINERRS

PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB						
		A	EQUIPMENT	3.0000	575.00	1,725.00
		B	PERSONNEL	3.0000	290.00	870.00
17 DISPOSAL						
		A	WASTEWATER	3,000.0000	0.80	2,400.00
19 RPT/PROJECT MNGT & COORDINATIO						
		PCT	PERCENT	0.1500	14,835.00	2,225.25
23 EFR						
		A	8 HOUR EVENT	3.0000	3,000.00	9,000.00
		C	OFF GAS TREATMENT	24.0000	35.00	840.00
					Total Amount	17,060.25

Cardno ATC
Shaping the Future

UST
FEB 1 1 2013
PROGRAM

January 8, 2013

SCDHEC – UST Program
Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201-1708

Cardno ATC

400 Northeast Drive
Unit Q
Columbia, SC 29203

Phone +1 803 735 0003
Fax +1 803 735 0443
www.cardno.com

www.cardnoatc.com

UST
37 tech
DOCKETING

Attn.: Read S. Miner, P.G., Hydrogeologist, Corrective Action Section

Re: Report of AFVR Events Results
81 Food Mart (Former Pantry 585)
1502 East Greenville Highway
Anderson, Anderson County, South Carolina
UST Permit #12458, CA# 44719
Cardno ATC Project No. 014.25384.0585

Dear Mr. Miner:

On behalf of The Pantry, Inc., Cardno ATC directed three Aggressive Fluid Vapor Recovery (AFVR) events at the above referenced site to remove residual free product from monitoring wells located at the former Pantry 585 / 81 Food Mart site. The three AFVR events and this report have been undertaken to comply with your directive letter and cost agreement (#44719) of October 23, 2012. A Site Location Map is included as **Figure 1**. A Site Map depicting well locations at the site is included as **Figure 2**. The AFVR events were conducted by VERCO, Inc., of Lexington, South Carolina, directed and supervised by Cardno ATC personnel. The AFVR events utilized a truck mounted liquid-ring vacuum pump fitted with a granular carbon off-gas treatment unit. The target well for each AFVR event was determined by gauging monitoring wells that have historically contained free product and extracting from the well that exhibited the largest free product thickness.

On November 20, 2012, an eight-hour AFVR event was performed at the site. Well 00558-MW-30 was targeted during the event. The pre-AFVR event free product thickness in well 00558-MW-30 was 0.61 feet. The extraction stinger was placed approximately 7.0 feet above the bottom of the well; the well contained approximately 8.26 feet of water and product. Average extraction vacuum measured at the truck during the 8-hour event was -21 inches Hg. As a result, a total of 702 gallons of water with intermingled petroleum was removed. The calculated amount of petroleum product removed as vapor (based on photo ionization detector (PID) measurements and vacuum truck exhaust stack airflow rates recorded at the prescribed interval) was 109.56 pounds (17.79 gallons).

On December 20, 2012, an eight-hour AFVR event was performed at the site. Well 00558-MW-1 was targeted during the event. The pre-AFVR event free product thickness in well 00558-MW-1 was 0.52 feet. The extraction stinger was placed approximately 6.0 feet above the bottom of the well; the well contained approximately 7.06 feet of water and product. Average extraction vacuum measured at the truck during the 8-hour event was -20 inches Hg. As a result, a total of 1171 gallons of water with intermingled petroleum was removed. The calculated amount of petroleum product removed as vapor (based on PID measurements and vacuum truck exhaust stack airflow rates recorded at the prescribed interval) was 58.86 pounds (9.55 gallons).

On January 21, 2013, an eight-hour AFVR event was performed at the site. Well 00558-MW-9 was targeted during the event. The pre-AFVR event free product thickness in well 00558-MW-9 was 0.17 feet. The extraction stinger was placed approximately 7.5 feet above the bottom of the well; the well contained approximately 8.59 feet of water and product. Average

extraction vacuum measured at the truck during the 8-hour event was -19 inches Hg. As a result, a total of 272 gallons of water with intermingled petroleum was removed. The calculated amount of petroleum product removed as vapor (based on PID measurements and vacuum truck exhaust stack airflow rates recorded at the prescribed interval) was 177.0 pounds (28.73 gallons).

A free product gauging table is presented as **Table 1** and hydrocarbon emissions data is summarized in **Table 2**.

The AFVR report prepared by VERCO, including Magnehelic™ gauge readings from the targeted wells, field data sheets and a disposal manifests for water generated during the AFVR events, are included in **Appendix A**.

Due to the continued effectiveness of the current AFVR events, Cardno ATC suggests conducting two AFVR events spaced 30-days apart. Each event should extract from monitoring wells 12458-MW-1, 12458-MW-9, and 12458-MW-30 simultaneously. Cardno ATC may propose a mobile multi-phase extraction (MMPE) event for 96 continuous hours based on the effectiveness of the two AFVR events. Should you have any questions or require additional information, please contact me at 803-735-0003.

Sincerely,
Cardno ATC
UST Site Rehabilitation Contractor #313

Braden Belding
Staff Geologist
for Cardno ATC
Direct Line +1 866 735 0003 ext. 105
Email:braden.belding@cardno.com

Jesse L. Keeffe, Jr., P.G.
Project Manager
for Cardno ATC
Direct Line +1 866 735 0003 ext. 109
Email: jesse.keeffe@cardno.com

TABLE 1

FREE PRODUCT DATA

Table 1
Free Product Data
81 Food Mart (Pantry 585)
1502 East Greenville Street
Anderson, Anderson County, South Carolina
UST Permit # 12458

Well Identification	Date Measured	Top of Casing Elevation, ft	Total Well Depth, ft	Screened interval, ft	Depth to Product , ft (1)	Depth to Water, ft (1)	Product Thickness, ft
12458-MW-1	**11/20/2012**	94.87	25	15-25	**12.11**	**12.23**	**0.12**
	12/20/2012				**12.94**	**13.46**	**0.52**
	1/7/2013				**12.48**	**12.61**	**0.13**
	1/21/2013				NP	11.92	NP
12458-MW-6	11/20/2012	95.34	18	8-18	NP	Not Measured	Not Measured
	12/20/2012				NP	13.57	NP
	1/7/2013				NP	13.04	NP
	1/21/2013				NP	Not Measured	Not Measured
12458-MW-9	11/20/2012	94.36	17	7-17	NP	12.29	NP
	12/20/2012				**12.49**	**12.76**	**0.27**
	1/7/2013				**12.00**	**12.26**	**0.26**
	1/21/2013				**11.41**	**11.58**	**0.17**
12458-MW-12	11/20/2012	92.18	17	7-17	NP	Not Measured	Not Measured
	12/20/2012				NP	11.59	NP
	1/7/2013				NP	11.06	NP
	1/21/2013				NP	Not Measured	Not Measured
12458-MW-27	11/20/2012	Unknown	Unknown	Unknown	NP	11.97	NP
	12/20/2012				NP	Not Measured	Not Measured
	1/7/2013				NP	11.62	NP
	1/21/2013				NP	10.90	NP
12458-MW-30	**11/20/2012**	Unknown	20	Unknown	**11.74**	**12.35**	**0.61**
	12/20/2012				NP	12.09	NP
	1/7/2013				**11.58**	**11.59**	**0.01**
	1/21/2013				**11.00**	**11.01**	**0.01**

Notes:

(1): Depth to water measured from top of casing

(2): NP: free product not present

(3): Bold indicates presence of measurable free product

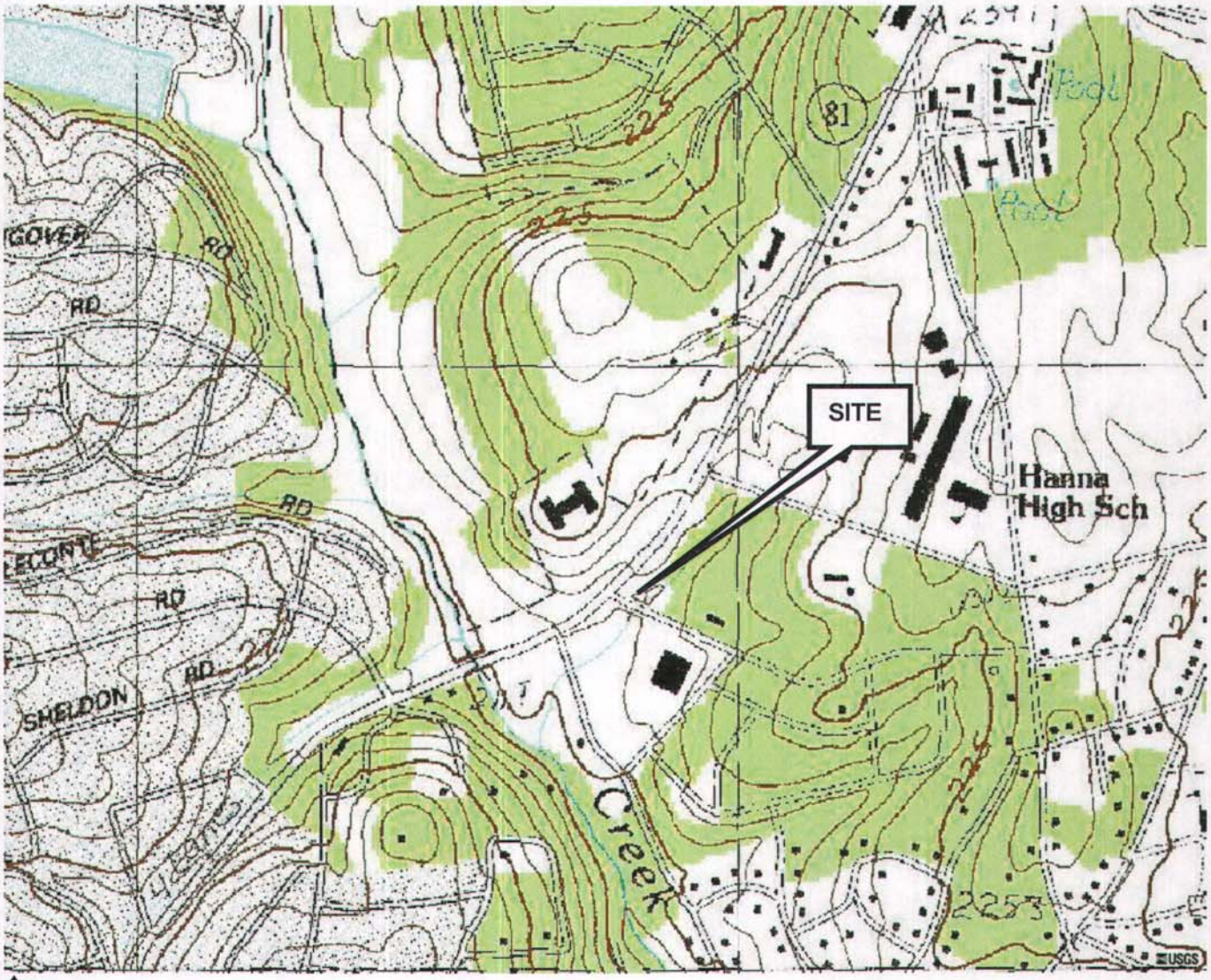
TABLE 2

HYDROCARBON EMISSIONS DATA

Table 2
Hydrocarbon Emissions Data
81 Food Mart (Pantry 585)
1502 East Greenville Street
Anderson, Anderson County, South Carolina
UST Permit # 12458

AFVR Event #	Date	Calculated gallons of hydrocarbons Extracted	Calculated Pounds of Hydrocarbons Extracted	Total Gallons Fluid Extracted
1	11/20/2012	17.79	109.56	702
2	12/20/2012	9.55	58.86	1,171
3	1/21/2013	28.73	177.00	272
Total		56.07	345.42	2,145

FIGURES



↑N

Figure 1: Site Location Map
Pantry #585 (81 Food Mart)
1502 East Greenville Street
Anderson, Anderson County, South Carolina
UST Permit #12458

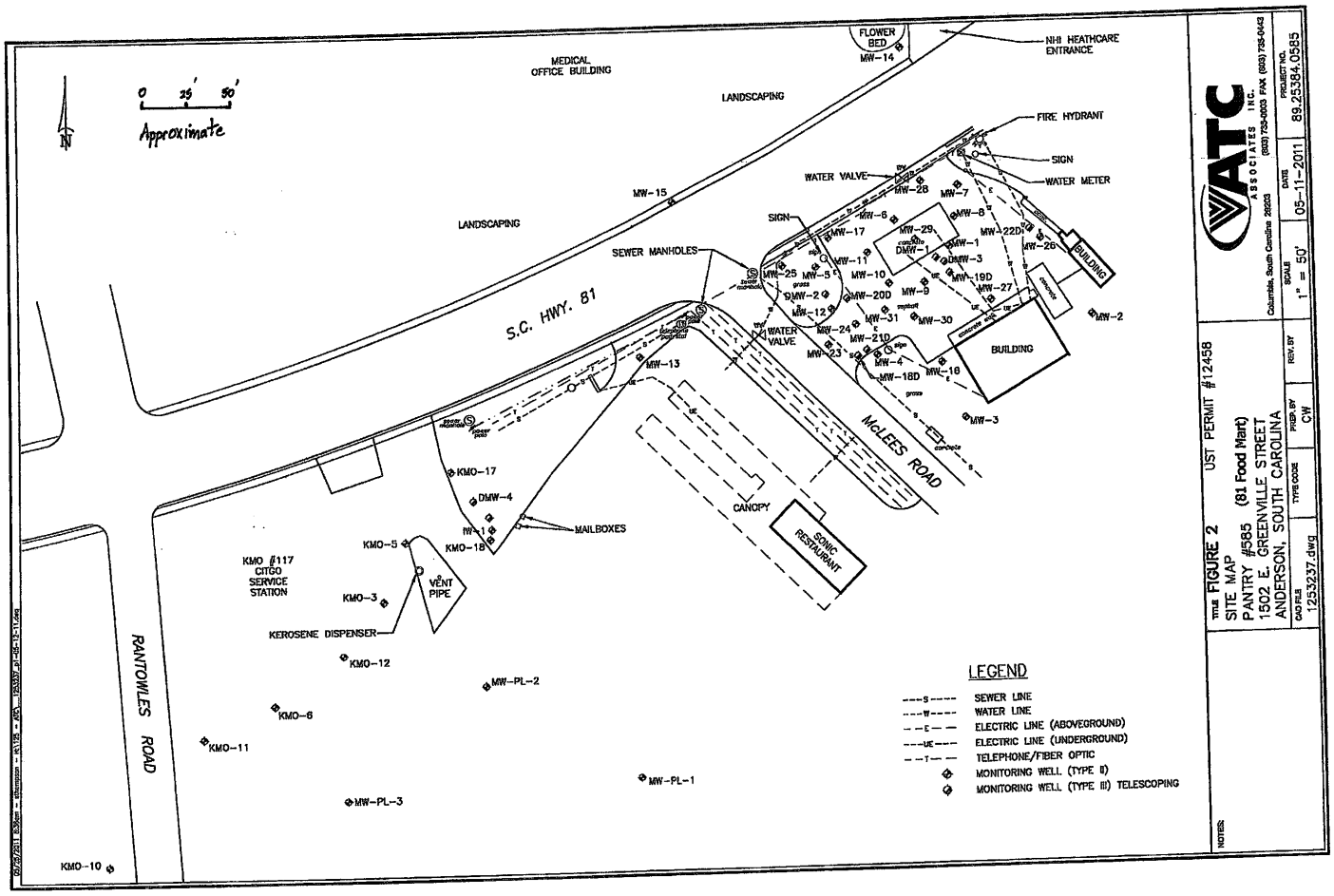
Cardno ATC
Shaping the Future

400 Northeast Drive, Unit Q Phone (803) 735-0003
Columbia, South Carolina Fax (803) 735-0443

ATC PROJECT No: 14.25384.0585

SOURCE: USGS Topographic Map Anderson, SC Quadrangle

1"= 885'


0 25' 50'
Approximate
N
MEDICAL OFFICE BUILDING
FLOWER BED
MW-14
NHI HEATHCARE ENTRANCE
LANDSCAPING
FIRE HYDRANT
SIGN
WATER METER
WATER VALVE
MW-15
LANDSCAPING
SIGN
SEWER MANHOLES
S.C. HWY. 81
WATER VALVE
BUILDING
BUILDING
McLEES ROAD
CANOPY
SONIC RESTAURANT
MAILBOXES
KMO #117 CITGO SERVICE STATION
VENT PIPE
KEROSENE DISPENSER
RANTOWLES ROAD
KMO-17
KMO-5
KMO-18
KMO-3
KMO-12
KMO-6
KMO-11
KMO-10
MW-PL-2
MW-PL-1
MW-PL-3
MW-13
MW-2
MW-3
LEGEND
SEWER LINE
WATER LINE
ELECTRIC LINE (ABOVEGROUND)
ELECTRIC LINE (UNDERGROUND)
TELEPHONE/FIBER OPTIC
MONITORING WELL (TYPE II)
MONITORING WELL (TYPE III) TELESCOPING
ATC ASSOCIATES INC.
Columbia, South Carolina 29203
(803) 750-0003 FAX (803) 735-0443
PROJECT NO. 89.25384.0585
DATE 05-11-2011
SCALE 1" = 50'
REV. BY
PREP. BY CW
TYPE CODE
CAD FILE 1253237.dwg
FIGURE 2
SITE MAP
PANTRY #585 (81 Food Mart)
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA
UST PERMIT #12458
NOTES:

APPENDIX A

VERCO AFVR REPORTS

AFVR MONITORING DATA
Site Name: Pantry #585
Site Location: Anderson, SC
11/20/2012

Start Weather: 51 degrees F,
Finish Weather: 68 degrees F

Extraction Well	Time (hh:mm)	Extraction Well Head Vacuum (in. Hg)				Vacuum Truck Exhaust					
		MW30		Truck		Relative Humidity	Temp (°F)	Concentration (PPM)	Offgas Velocity Ft/Min	Water Vapor (%)	Flow Rate (DSCFM)
MW30	8:30										
	9:00	17.0		21.0		2.5	216.0	1203	3700	0.02	138.73
	9:30	17.0		22.0		2.1	229.0	1417	3700	0.02	136.11
	10:00	17.0		22.0		1.9	236.0	1322	3700	0.02	134.74
	10:30	18.0		21.0		1.8	245.0	1229	3700	0.02	133.02
	11:00	18.0		22.0		1.7	247.0	1532	3800	0.02	136.23
	11:30	18.0		21.0		1.7	248.0	1369	3700	0.02	132.46
	12:00	18.5		21.0		1.7	250.0	1287	3800	0.02	135.66
	12:30	18.0		22.0		1.6	252.0	1216	3700	0.02	131.72
	1:00	18.0		21.0		1.7	250.0	1228	3700	0.02	132.09
	1:30	18.5		22.0		1.6	250.0	1219	3700	0.02	132.09
	2:00	18.0		22.0		1.7	249.0	1222	3900	0.02	139.42
	2:30	18.0		21.0		1.7	252.0	1215	3800	0.02	135.28
	3:00	18.5		21.0		1.6	250.0	1238	3800	0.02	135.66
	3:30	18.5		21.0		1.7	247.0	1245	3700	0.02	132.65
	4:00	18.0		22.0		1.6	248.0	1262	3700	0.02	132.46
	4:30	18.0		22.0		1.6	247.0	1240	3700	0.02	132.65

Well Gauging Data:				Before AFVR Event			After AFVR Event		
Well No.	Diameter (in)	Total Depth (ft)	Stinger Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)
MW30	2.00	20.00	13.00	11.74	12.35	0.61	NONE	13.79	0.00

AFVR Information	
Client	ATC
Equipment Operator:	RF
Blower Discharge I.D.	3 inches

Notes: Pipe ID - The inside diameter of the blower discharge piping (from vacuum truck)
Velocity - The rate at which air flows is measured at the blower discharge piping
Temperature - The temperature of the air stream exiting the blower discharge piping
Relative humidity - The & relative humidity of the air stream exiting the blower discharge piping
Water Vapor in % - Pounds of water per pound of dry air (derived from a Psychrometric chart of temp. vs relative humidity)
Flow rate = (1 - water vapor)(velocity)(Pipe Diameter/24)^2(3.14)(528°R/Temp + 460)

Total Gallons Extracted
702

Site Name: Pantry #585
Location: Anderson, SC
Date: 11/20/12

EMISSION CALCULATION

Elapsed Time (min)	Flow Rate (DSCFM)	Concentration (ppm)	K (#C - gas)	PPMg (ppm)	Cg:m (mg/dsm^3)	Cg (lbs/dscf)	PMRg (lb/hr)	PMR (lb)
0								
30	138.73	1203	4	4812	25599.84	0.001598198	13.303046	6.6515232
60	136.11	1417	4	5668	30153.76	0.001882499	15.373856	7.6869279
90	134.74	1322	4	5288	28132.16	0.001756291	14.19889	7.099445
120	133.02	1229	4	4916	26153.12	0.001632739	13.0315161	6.515758
150	136.23	1532	4	6128	32600.96	0.002035278	16.636172	8.318086
180	132.46	1369	4	5476	29132.32	0.001818731	14.45448	7.2272383
210	135.66	1287	4	5148	27387.36	0.001709793	13.916635	6.958318
240	131.72	1216	4	4864	25876.48	0.001615469	12.766909	6.3834544
270	132.09	1228	4	4912	26131.84	0.001631411	12.929216	6.4646081
300	132.09	1219	4	4876	25940.32	0.001619454	12.834458	6.417229
330	139.42	1222	4	4888	26004.16	0.00162344	13.580634	6.7903168
360	135.28	1215	4	4860	25855.2	0.00161414	13.101178	6.550589
390	135.66	1238	4	4952	26344.64	0.001644696	13.386787	6.6933934
420	132.65	1245	4	4980	26493.6	0.001653995	13.163825	6.5819127
450	132.46	1262	4	5048	26855.36	0.00167658	13.324726	6.6623628
480	132.65	1240	4	4960	26387.2	0.001647353	13.110959	6.5554793
					Total Emissions in pounds			109.55664
					Equivalent Gallons (vapor)			17.785169

Equations: PPMg = PPM (measured) x K Mg = 128 mg/mg-mole (molecular weight of gasoline)

Cg:m = PPMg x (Mg/K_3) mass conc. of gasoline emission

Cg = (Cg:m)(62.43×10^{-9} $lb\text{-}m^3/mg\text{-}ft^3$) mass concentration of gasoline emission

PMRg = (Cg)(Q_{std})(60 min/hr) mass removal rate of gasoline emission

PMR = PMRg {(T2-T1)/60} (mass removal rate of gasoline over time)

K = Number of carbons in calibration gas

K_3 = 24.07 $dsm^3/1 \times 10^6$ mg-mole (mass to volume conversion factor)

DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
SITE - PANTRY #585
LOCATION - ANDERSON, SC
Date:11/20/12

DIFFERENTIAL PRESSURE DATA

		Well Designation:		
		MW27	MW9	
Time	Elapsed Time	Differential Pressure Readings (inches of water)		
8:30	0.0	0.0	0.0	
9:00	0.5	0.0	0.5	
9:30	1.0	0.3	0.7	
10:00	1.5	0.5	0.9	
10:30	2.0	0.6	1.0	
11:00	2.5	0.6	1.0	
11:30	3.0	0.6	1.0	
12:00	3.5	0.6	1.0	
12:30	4.0	0.6	1.0	
1:00	4.5	0.6	1.0	
1:30	5.0	0.6	1.0	
2:00	5.5	0.6	1.0	
2:30	6.0	0.6	1.0	
3:00	6.5	0.6	1.0	
3:30	7.0	0.6	1.0	
4:00	7.5	0.6	1.0	
4:30	8.0	0.6	1.0	
Maximum Change:		0.6	1.0	

GROUNDWATER DRAWDOWN DATA

		Well Designation:		
		MW27	MW9	
Time	Elapsed Time	Depth to Liquid (feet below of casing):		
Prior to AFVR	0 hours	11.97	12.29	
	4 hours	12.23	12.64	
	8 hours	12.27	12.78	
Maximum Change:		0.30	0.49	

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
2. Page 1 of
3. Emergency Response Phone
4. Waste Tracking Number

5. Generator's Name and Mailing Address
Publix 585
1502 E Greenville Street
Anderson SC
Generator's Phone:

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name
VERCO
U.S. EPA ID Number

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
The Tank Service
4121 Barlow Rd
Sumter SC
Facility's Phone:
U.S. EPA ID Number

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. Non Haz Waste	1	St	702	gal	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: William Lagic
Signature
Month / Day / Year

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Ronald Frew
Signature
Month 11 Day 20 Year 12

Transporter 2 Printed/Typed Name
Signature
Month / Day / Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month / Day / Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Tommy Keels
Signature
Month / Day 26 / Year

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

6-NHM-C-SO-1158

2-DESIGNATED FACILITY TO GENERATOR

AFVR MONITORING DATA
Site Name: Pantry #585
Site Location: Anderson, SC
12/20/2012

Start Weather: 51 degrees F, Rain
Finish Weather: 68 degrees F

Extraction Well	Time (hh:mm)	Extraction Well Head Vacuum (in. Hg)				Vacuum Truck Exhaust					
			MW1	Truck		Relative Humidity	Temp (°F)	Concentration (PPM)	Offgas Velocity Ft/Min	Water Vapor (%)	Flow Rate (DSCFM)
MW1	8:30										
	9:00		16.0	20.0		2.0	216.0	877	3800	0.01	143.93
	9:30		16.0	20.0		1.4	242.0	721	3800	0.02	137.20
	10:00		16.0	20.0		1.4	239.0	821	3900	0.02	141.42
	10:30		16.0	21.0		1.5	239.0	653	3800	0.02	137.79
	11:00		16.0	20.0		1.5	240.0	769	3800	0.02	137.59
	11:30		16.0	20.0		1.4	241.0	682	3800	0.02	137.40
	12:00		16.0	20.0		1.5	240.0	712	3900	0.02	141.21
	12:30		16.0	21.0		1.5	240.0	691	3800	0.02	137.59
	1:00		16.0	20.0		1.6	238.0	745	3800	0.02	137.99
	1:30		16.0	20.0		1.6	239.0	716	3800	0.02	137.79
	2:00		16.0	20.0		1.5	240.0	635	3900	0.02	141.21
	2:30		16.0	21.0		1.6	241.0	511	3800	0.02	137.40
	3:00		16.0	21.0		1.5	242.0	589	3800	0.02	137.20
	3:30		16.0	20.0		1.5	240.0	613	3800	0.02	137.59
	4:00		16.0	20.0		1.6	241.0	489	3800	0.02	137.40
	4:30		16.0	20.0		1.5	240.0	412	3800	0.02	137.59

Well Gauging Data:				Before AFVR Event			After AFVR Event		
Well No.	Diameter (in)	Total Depth (ft)	Stinger Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)
MW1	2.00	20.00	14.00	12.94	13.46	0.52	NONE	15.63	0.00

AFVR Information	
Client	ATC
Equipment Operator:	RF
Blower Discharge I.D.	3 inches

Notes: Pipe ID - The inside diameter of the blower discharge piping (from vacuum truck)
Velocity - The rate at which air flows is measured at the blower discharge piping
Temperature - The temperature of the air stream exiting the blower discharge piping
Relative humidity - The & relative humidity of the air stream exiting the blower discharge piping
Water Vapor in % - Pounds of water per pound of dry air (derived from a Psychrometric chart of temp. vs relative humidity)
Flow rate = (1 - water vapor)(velocity)(Pipe Diameter/24)^2(3.14)(528°R/Temp + 460)

Total Gallons Extracted
1171

Site Name: Pantry #585
Location: Anderson, SC
Date: 12/20/12

EMISSION CALCULATION

Elapsed Time (min)	Flow Rate (DSCFM)	Concentration (ppm)	K (#C - gas)	PPMg (ppm)	Cg:m (mg/dsm^3)	Cg (lbs/dscf)	PMRg (lb/hr)	PMR (lb)
0								
30	143.93	877	4	3508	18662.56	0.001165104	10.061809	5.0309045
60	137.20	721	4	2884	15342.88	0.000957856	7.8851907	3.9425954
90	141.42	821	4	3284	17470.88	0.001090707	9.2546722	4.6273361
120	137.79	653	4	2612	13895.84	0.000867517	7.1721614	3.586081
150	137.59	769	4	3076	16364.32	0.001021624	8.43417	4.217085
180	137.40	682	4	2728	14512.96	0.000906044	7.46931	3.7346543
210	141.21	712	4	2848	15151.36	0.000945899	8.0145107	4.007255
240	137.59	691	4	2764	14704.48	0.000918001	7.5786885	3.7893443
270	137.99	745	4	2980	15853.6	0.00098974	8.1943574	4.0971787
300	137.79	716	4	2864	15236.48	0.000951213	7.8641157	3.9320579
330	141.21	635	4	2540	13512.8	0.000843604	7.1477729	3.5738865
360	137.40	511	4	2044	10874.08	0.000678869	5.5965055	2.798253
390	137.20	589	4	2356	12533.92	0.000782493	6.4415774	3.2207887
420	137.59	613	4	2452	13044.64	0.000814377	6.723207	3.3616035
450	137.40	489	4	1956	10405.92	0.000649642	5.35556	2.67778
480	137.59	412	4	1648	8767.36	0.000547346	4.5186971	2.2593485
					Total Emissions in pounds			58.856152
					Equivalent Gallons (vapor)			9.5545702

Equations:

PPMg = PPM (measured) x K

Mg = 128 mg/mg-mole (molecular weight of gasoline)

Cg:m = PPMg x (Mg/K_3) mass conc. of gasoline emission

Cg = (Cg:m)(62.43×10^{-9} $lb\text{-}m^3/mg\text{-}ft^3$) mass concentration of gasoline emission

PMRg = (Cg)(Q_{std})(60 min/hr) mass removal rate of gasoline emission

PMR = PMRg {(T2-T1)/60} (mass removal rate of gasoline over time)

K = Number of carbons in calibration gas

K_3 = 24.07 $dsm^3/1 \times 10^6$ mg-mole (mass to volume conversion factor)

DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
SITE - PANTRY #585
LOCATION - ANDERSON, SC
Date:12/20/12

DIFFERENTIAL PRESSURE DATA

		Well Designation:		
		MW30	MW9	
Time	Elapsed Time	Differential Pressure Readings (inches of water)		
8:30	0.0	0.0	0.0	
9:00	0.5	0.0	0.0	
9:30	1.0	0.0	0.0	
10:00	1.5	0.0	0.0	
10:30	2.0	0.0	0.0	
11:00	2.5	0.0	0.0	
11:30	3.0	0.0	0.0	
12:00	3.5	0.0	0.0	
12:30	4.0	0.0	0.0	
1:00	4.5	0.0	0.0	
1:30	5.0	0.0	0.0	
2:00	5.5	0.0	0.0	
2:30	6.0	0.0	0.0	
3:00	6.5	0.0	0.0	
3:30	7.0	0.0	0.0	
4:00	7.5	0.0	0.0	
4:30	8.0	0.0	0.0	
Maximum Change:		0.0	0.0	

GROUNDWATER DRAWDOWN DATA

		Well Designation:		
		MW30	MW9	
Time	Elapsed Time	Depth to Liquid (feet below of casing):		
Prior to AFVR	0 hours	12.09	12.49-12.76	
	4 hours	12.36	12.73-13.12	
	8 hours	12.51	12.98-13.43	
Maximum Change:		0.42	0.49	

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
2. Page 1 of
3. Emergency Response Phone
4. Waste Tracking Number

5. Generator's Name and Mailing Address
Pantry 585
1502 Greenville Hwy
Anderson SC
Generator's Phone:

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name
VERCO
U.S. EPA ID Number

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
CRANDALL
100 Rich-Lex Dr
Lexington SC
Facility's Phone:
U.S. EPA ID Number

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. Non Haz Water	1	St	1171	gal	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: BRADEN BELDING
Signature: Braden Belding
Month 12 Day 20 Year 12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Robert Green
Signature:
Month 12 Day 20 Year 12

Transporter 2 Printed/Typed Name
Signature
Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Jay Carrell
Signature:
Month 07 Day 09 Year 13

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

6-NHM-C-SO-1158

2-DESIGNATED FACILITY TO GENERATOR

AFVR MONITORING DATA
Site Name: Pantry #585
Site Location: Anderson, SC
1/21/2013

Start Weather: 37 degrees F,
Finish Weather: 58 degrees F

Extraction Well	Time (hh:mm)	Extraction Well Head Vacuum (in. Hg)				Vacuum Truck Exhaust					
			MW9	Truck		Relative Humidity	Temp (°F)	Concentration (PPM)	Offgas Velocity Ft/Min	Water Vapor (%)	Flow Rate (DSCFM)
MW9	8:30										
	9:00		17.0	19.0		1.9	201.0	1902	3100	0.01	120.08
	9:30		17.0	19.0		1.6	203.0	2086	3100	0.01	119.72
	10:00		17.0	20.0		1.6	210.0	2338	3100	0.01	118.47
	10:30		17.0	19.0		1.5	212.0	2145	3100	0.01	118.12
	11:00		17.0	20.0		1.5	210.0	2569	3200	0.01	122.29
	11:30		16.0	20.0		1.5	211.0	2458	3100	0.01	118.29
	12:00		17.0	20.0		1.5	211.0	2612	3200	0.01	122.11
	12:30		16.0	20.0		1.6	210.0	2641	3100	0.01	118.47
	1:00		16.0	20.0		1.6	208.0	2578	3200	0.01	122.66
	1:30		17.0	20.0		1.5	206.0	2439	3200	0.01	123.03
	2:00		16.0	20.0		1.6	209.0	2231	3300	0.01	126.30
	2:30		17.0	20.0		1.5	207.0	2109	3200	0.01	122.84
	3:00		17.0	20.0		1.6	206.0	2189	3300	0.01	126.87
	3:30		17.0	20.0		1.5	208.0	1965	3200	0.01	122.66
	4:00		17.0	20.0		1.5	208.0	2110	3200	0.01	122.66
	4:30		17.0	20.0		1.5	209.0	2067	3300	0.01	126.30

Well Gauging Data:				Before AFVR Event			After AFVR Event		
Well No.	Diameter (in)	Total Depth (ft)	Stinger Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)
MW9	2.00	20.00	12.50	11.41	11.58	0.17	NONE	14.16	0.00

AFVR Information	
Client	ATC
Equipment Operator:	RF
Blower Discharge I.D.	3 inches

Notes: Pipe ID - The inside diameter of the blower discharge piping (from vacuum truck)
Velocity - The rate at which air flows is measured at the blower discharge piping
Temperature - The temperature of the air stream exiting the blower discharge piping
Relative humidity - The & relative humidity of the air stream exiting the blower discharge piping
Water Vapor in % - Pounds of water per pound of dry air (derived from a Psychrometric chart of temp. vs relative humidity)
Flow rate = (1 - water vapor)(velocity)(Pipe Diameter/24)^2(3.14)(528°R/Temp + 460)

Total Gallons Extracted
272

Site Name: Pantry #585
Location: Anderson, SC
Date: 1/21/13

EMISSION CALCULATION

Elapsed Time (min)	Flow Rate (DSCFM)	Concentration (ppm)	K (#C - gas)	PPMg (ppm)	Cg:m (mg/dsm^3)	Cg (lbs/dscf)	PMRg (lb/hr)	PMR (lb)
0								
30	120.08	1902	4	7608	40474.56	0.002526827	18.205823	9.1029116
60	119.72	2086	4	8344	44390.08	0.002771273	19.906827	9.9534135
90	118.47	2338	4	9352	49752.64	0.003106057	22.078571	11.039286
120	118.12	2145	4	8580	45645.6	0.002849655	20.1957176	10.097859
150	122.29	2569	4	10276	54668.32	0.003412943	25.042567	12.521284
180	118.29	2458	4	9832	52306.24	0.003265479	23.17718	11.588591
210	122.11	2612	4	10448	55583.36	0.003470069	25.423785	12.711892
240	118.47	2641	4	10564	56200.48	0.003508596	24.939909	12.469955
270	122.66	2578	4	10312	54859.84	0.0034249	25.20554	12.60277
300	123.03	2439	4	9756	51901.92	0.003240237	23.918124	11.959062
330	126.30	2231	4	8924	47475.68	0.002963907	22.46089	11.230445
360	122.84	2109	4	8436	44879.52	0.002801828	20.650962	10.325481
390	126.87	2189	4	8756	46581.92	0.002908109	22.13732	11.06866
420	122.66	1965	4	7860	41815.2	0.002610523	19.212136	9.6060678
450	122.66	2110	4	8440	44900.8	0.002803157	20.629825	10.314912
480	126.30	2067	4	8268	43985.76	0.002746031	20.809798	10.404899
					Total Emissions in pounds			176.99749
					Equivalent Gallons (vapor)			28.733359

Equations: PPMg = PPM (measured) x K Mg = 128 mg/mg-mole (molecular weight of gasoline)

Cg:m = PPMg x (Mg/K_3) mass conc. of gasoline emission

Cg = (Cg:m)(62.43×10^{-9} $lb\text{-}m^3/mg\text{-}ft^3$) mass concentration of gasoline emission

PMRg = (Cg)(Q_{std})(60 min/hr) mass removal rate of gasoline emission

PMR = PMRg {(T2-T1)/60} (mass removal rate of gasoline over time)

K = Number of carbons in calibration gas

K_3 = 24.07 $dsm^3/1 \times 10^6$ mg-mole (mass to volume conversion factor)

DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
SITE - PANTRY #585
LOCATION - ANDERSON, SC
Date:1/21/13

DIFFERENTIAL PRESSURE DATA

		Well Designation:		
		MW27	MW1	
Time	Elapsed Time	Differential Pressure Readings (inches of water)		
8:30	0.0	0.0	0.1	
9:00	0.5	0.0	0.2	
9:30	1.0	0.0	0.2	
10:00	1.5	0.0	0.2	
10:30	2.0	0.0	0.3	
11:00	2.5	0.0	0.2	
11:30	3.0	0.0	0.3	
12:00	3.5	0.0	0.3	
12:30	4.0	0.0	0.3	
1:00	4.5	0.0	0.3	
1:30	5.0	0.0	0.3	
2:00	5.5	0.0	0.3	
2:30	6.0	0.0	0.3	
3:00	6.5	0.0	0.3	
3:30	7.0	0.0	0.3	
4:00	7.5	0.0	0.3	
4:30	8.0	0.0	0.3	
Maximum Change:		0.0	0.3	

GROUNDWATER DRAWDOWN DATA

		Well Designation:		
		MW27	MW1	
Time	Elapsed Time	Depth to Liquid (feet below of casing):		
Prior to AFVR	0 hours	10.90	11.92	
	4 hours	11.00	12.06	
	8 hours	11.04	12.21	
Maximum Change:		0.14	0.29	

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
2. Page 1 of
3. Emergency Response Phone
4. Waste Tracking Number

5. Generator's Name and Mailing Address
Pantex 585
1502 E Greenville Street
Anderson SC

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: VERCO — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
Carolina
[illegible]
Lexington SC

U.S. EPA ID Number

Facility's Phone:

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. NON Haz Waste	1	SI	22	gal	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: William Fogle — Signature: [signature] — Month 1 Day 21 Year 13

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Robert Freeman — Signature: [signature] — Month 1 Day 21 Year 13

Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Bob Caudums — Signature: [signature] — Month 10 Day 28 Year 13

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

6-NHM-C-SO-1158

2-DESIGNATED FACILITY TO GENERATOR

D H E C

PROMOTE PROTECT PROSPER

Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

UST 38-kch DOCKETING

MAR 27 2013

BRENT PUZAK
PANTRY INC
PO BOX 1410
SANFORD NC 27331-1410

Re: **Corrective Action Options**
81 Food Mart, 1502 E Greenville Hwy., Anderson, SC
UST Permit #12458
Release reported November 10, 1992
Anderson County

Dear Mr. Puzak:

The Underground Storage Tank (UST) Management Division (Division) of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the referenced file. The report indicates that active corrective action is necessary at the site to mitigate petroleum impact to the storm sewer and creek and ensure that there is no detrimental exposure to human health or the environment.

Funds from the State Underground Petroleum Environmental Response Bank (SUPERB) Account will soon be available for active corrective action. The selected technology must reduce free product and petroleum chemicals of concern (CoC) concentrations to site-specific target levels (SSTLs) determined by the Agency.

The SUPERB Site Rehabilitation and Fund Access Regulations R.61-98 require the UST owner/operator to develop and implement a reasonable, cost-effective corrective action to be performed by an Agency-certified site rehabilitation contractor. As the owner/operator for the release reported on November 10, 1992, you may choose one of two options as to how to proceed with this requirement: state lead or owner/operator lead.

State Lead Option:

- If you choose the state lead option, the Agency will procure a certified site rehabilitation contractor to perform corrective action on your behalf. The Agency will enter into an enforceable contract with the awarded contractor. As long as you do not interfere with or prohibit the work at your site, you will not be responsible in the event the state selected contractor does not perform appropriately or does not make satisfactory progress towards achieving the established corrective action goals. To utilize the state lead option, please sign and return the applicable Permission form within 15 days of the date of this letter.

Owner/Operator Lead Option:

- If you select the owner/operator lead option, you will be required to select a contractor to perform the corrective action. In order to assist you in determining the clean-up technology, time frame, clean-up levels, and associated costs, the Agency will prepare a technical specification package and provide you copies to send to contractors of your choice. In addition, the Agency will announce the request for solicitations in the South Carolina Business Opportunities, a bi-weekly state government publication, to ensure that an adequate solicitation response is obtained so that a fair and competitive price can be established. This announcement will clearly indicate that you will select the contractor to implement the corrective action.
- Compensation to the contractor will be from the SUPERB Account, but you may have the obligation to pay your selected contractor for any costs not approved by the Agency.
- The Agency strongly suggests that a written contract between you and the selected contractor be developed following the completion of the solicitation process. The parties to this contract would be you and the contractor you choose; the Agency would not be a party to this contract. The Agency's function would be to monitor and ensure progress of corrective action activities.
- If the contractor you select does not or cannot complete the required activities, you will be required to find another certified contractor to complete the required activities for the remainder of the existing financial approval amount. No additional funding from the SUPERB Account may be allowed. Under R.61-92, Part 280: Underground Storage Tank Control Regulations, you as the owner/operator are ultimately responsible to the Agency for the actions of your contractor. The Agency will pursue enforcement actions against you if the contractor you select does not make satisfactory progress towards achieving established corrective actions goals. To utilize the owner/operator lead option, please sign and return the enclosed Active Corrective Action Options Form within 15 days of the date of this letter.

On all correspondence or inquiries regarding this project, please reference UST Permit #12458. If you have any questions, please contact me at (803) 896-6584 or by email at miners@dhec.sc.gov.

Sincerely,

Read S Miner

Read S. Miner, P.G., Hydrogeologist
Corrective Action Section
UST Management Division
Bureau of Land and Waste Management

enc: Permission form
Active Corrective Action Options form

cc: Technical file (w/o enc)

D H E C
PROMOTE PROTECT PROSPER
Catherine B. Templeton, Director
Promoting and protecting the health of the public and the environment

MAY 15 2013

UST DOCKETING

BRENT PUZAK
PANTRY INC
PO BOX 1410
SANFORD NC 27331-1410

Re: **Corrective Action Options-2nd Request**
81 Food Mart, 1502 E Greenville Hwy., Anderson, SC
UST Permit #12458
Release reported November 10, 1992
Anderson County

Dear Mr. Puzak:

The Underground Storage Tank (UST) Management Division (Division) of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the referenced file. The report indicates that active corrective action is necessary at the site to mitigate petroleum impact to the storm sewer and creek and ensure that there is no detrimental exposure to human health or the environment.

Funds from the State Underground Petroleum Environmental Response Bank (SUPERB) Account will soon be available for active corrective action. The selected technology must reduce free product and petroleum chemicals of concern (CoC) concentrations to site-specific target levels (SSTLs) determined by the Agency.

The SUPERB Site Rehabilitation and Fund Access Regulations R.61-98 require the UST owner/operator to develop and implement a reasonable, cost-effective corrective action to be performed by an Agency-certified site rehabilitation contractor. As the owner/operator for the release reported on November 10, 1992, you may choose one of two options as to how to proceed with this requirement: state lead or owner/operator lead.

State Lead Option:

- If you choose the state lead option, the Agency will procure a certified site rehabilitation contractor to perform corrective action on your behalf. The Agency will enter into an enforceable contract with the awarded contractor. As long as you do not interfere with or prohibit the work at your site, you will not be responsible in the event the state selected contractor does not perform appropriately or does not make satisfactory progress towards achieving the established corrective action goals. To utilize the state lead option, please sign and return the applicable Permission form within 15 days of the date of this letter.

Owner/Operator Lead Option:

- If you select the owner/operator lead option, you will be required to select a contractor to perform the corrective action. In order to assist you in determining the clean-up technology, time frame, clean-up levels, and associated costs, the Agency will prepare a technical specification package and provide you copies to send to contractors of your choice. In addition, the Agency will announce the request for solicitations in the South Carolina Business Opportunities, a bi-weekly state government publication, to ensure that an adequate solicitation response is obtained so that a fair and competitive price can be established. This announcement will clearly indicate that you will select the contractor to implement the corrective action.
- Compensation to the contractor will be from the SUPERB Account, but you may have the obligation to pay your selected contractor for any costs not approved by the Agency.
- The Agency strongly suggests that a written contract between you and the selected contractor be developed following the completion of the solicitation process. The parties to this contract would be you and the contractor you choose; the Agency would not be a party to this contract. The Agency's function would be to monitor and ensure progress of corrective action activities.
- If the contractor you select does not or cannot complete the required activities, you will be required to find another certified contractor to complete the required activities for the remainder of the existing financial approval amount. No additional funding from the SUPERB Account may be allowed. Under R.61-92, Part 280: Underground Storage Tank Control Regulations, you as the owner/operator are ultimately responsible to the Agency for the actions of your contractor. The Agency will pursue enforcement actions against you if the contractor you select does not make satisfactory progress towards achieving established corrective actions goals. To utilize the owner/operator lead option, please sign and return the enclosed Active Corrective Action Options Form within 15 days of the date of this letter.

On all correspondence or inquiries regarding this project, please reference UST Permit #12458. If you have any questions, please contact me at (803) 896-6584 or by email at miners@dhec.sc.gov.

Sincerely,

Read S. Miner, P.G., Hydrogeologist
Corrective Action Section
UST Management Division
Bureau of Land and Waste Management

enc: Permission form
Active Corrective Action Options form

cc: Technical file (w/o enc)

ATC ASSOCIATES INC.
Engineering Individual Solutions

400 Northeast Drive, Unit Q
Columbia, South Carolina 29203
803-735-0003
Fax 803-735-0443
www.atcassociates.com

December 19, 2007

Mr. Art Shrader, Hydrogeologist
SCDHEC – UST Program
Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201

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UNDERGROUND STORAGE
TANK PROGRAM

Re: 81 Food Mart
(Former Pantry #585)
1502 East Greenville Street
Anderson, South Carolina
Anderson County
UST Permit #12458

Dear Mr. Shrader:

Attached is the Groundwater Assessment Report for the 81 Food Mart/Former Pantry #585. Should you have any questions or require additional information, please contact me at 735-0003.

Sincerely,
ATC Associates Inc.

Jesse L. Keeffe, Jr.
Project Scientist

Attachment

cc: Ms. Renee' Thomas, The Pantry, Inc.

UST PROGRAM
DOCKETING # 4

ATC ASSOCIATES INC.
Engineering Individual Solutions

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Columbia, South Carolina 29203
803-735-0003
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GROUNDWATER ASSESSMENT REPORT

81 Food Mart
(Former Pantry #585)
1502 East Greenville Street
Anderson, South Carolina
Anderson County
UST Permit #12458

PREPARED FOR:

Ms. Renee' Thomas
Director of Gasoline Environmental
The Pantry, Inc.
Post Office Box 1410
Sanford, North Carolina

PREPARED BY:

ATC Associates Inc.
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December 19, 2007

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1.0 INTRODUCTION

Ms. Renee' Thomas of The Pantry, Inc. contracted ATC Associates Inc. (ATC) to conduct groundwater assessment activities at the 81 Food Mart (former Pantry #585) facility located at 1502 East Greenville Street in Anderson, South Carolina. A site location map is presented as Figure 1. The groundwater assessment activities were approved by SCDHEC in correspondence to The Pantry, Inc. dated August 7, 2007. A copy of the SCDHEC correspondence is provided in Appendix A.

2.0 METHODOLOGY

2.1 Aggressive Fluid Vapor Recovery Event

On September 13 and October 11, 2007, ATC Associates Inc. (ATC) personnel oversaw the free product (or liquid phase hydrocarbons) removal activities by NuWay Industrial Services, Inc. (NuWay) at the subject property.

On September 13, 2007, ATC personnel oversaw the free product removal activities from Monitor Wells MW-1 and MW-5. Specifically, the free product removal activities were conducted for 5.5 hours on Monitor Well MW-1 and 2.5 hours on Monitor Well MW-5, for a total of eight hours. Approximately 790 gallons of liquid were removed from the monitor wells. Prior to the start of the free product removal activities of September 13, 2007, Monitor Wells MW-1 and MW-5 contained approximately 0.52 feet and 0.33 feet of free product, respectively. Following the free product removal activities, both monitor wells had no detectable free product.

On October 11, 2007, ATC personnel oversaw the free product removal activities from Monitor Wells MW-1, MW-5, MW-8, MW-9, and MW-12. Specifically, the free product removal activities were conducted for four hours on Monitor Wells MW-5 and MW-12 and four hours on Monitor Wells MW-1, MW-8, and MW-9 for a total of eight hours, and approximately 1,454 gallons of liquid were removed from the monitor wells. Prior to the start of the free

product removal activities of September 13, 2007, Monitor Wells MW-1, MW-5, and MW-8 contained approximately 0.16 feet, 0.07 feet, and 0.0.03 feet of free product, respectively. Monitor Wells MW-9 and MW-12 had no detectable free product prior to the start of the free product removal activities. Following the free product removal activities, Monitor Wells MW-1, MW-5, MW-8, MW-9, and MW-12 had no detectable free product. A summary of the free product removal activities is presented in Appendix B.

2.2 Monitor Well Installation

On October 1, 2007, ATC personnel oversaw the installation of Monitor Wells MW-8 through MW-13, and oversaw the installation of Monitor Well DMW-2 on October 12 through 14, 2007. Monitor Wells MW-8 through MW-13 were installed by Mr. Mike McConahey of Geologic Exploration (GEX) via a truck-mounted CME™ 55 Drill rig. The monitor wells were was installed to an approximate depth of 17 feet bgs (with the exception of the 13 foot well identified as Monitor Well MW-13). These wells were used to further delineate the horizontal extent of petroleum hydrocarbons in the groundwater. Specifically, Monitor Well MW-8 was installed along the northeastern side of the former UST basin and north of Monitor Well MW-1. Monitor Well MW-9 was installed southwest of Monitor Well DMW-1. Monitor Well MW-10 was installed near the southern corner of the former UST basin and south of Monitor Well MW-6. Monitor Well MW-11 was installed near the western corner of the former UST basin and west-southwest of Monitor Well MW-6. Monitor Well MW-12 was installed near the western border of the property and south-southeast of Monitor Well MW-5. Monitor Well MW-13 was installed on the adjacent property located southwest of the subject property. Specifically, Monitor Well MW-13 was installed on the southern shoulder of East Greenville Street and located southwest of Monitor Well MW-5.

On October 12 through 14, 2007, Mr. Jason Mantak of GEX installed one "pit-cased" monitor well (identified as Monitor Well DMW-2) to delineate the vertical extent of petroleum hydrocarbons in the groundwater. A truck mounted CME™ 75 Drill rig was used, and the pit-cased monitor well was installed to a depth of 80 feet bsg. Monitor Well DMW-2 was

installed between Monitor Wells MW-5 and MW-12. Soil samples were collected for lithologic descriptions during the installation of Monitor Wells MW-8 through MW-13. Monitor well locations are depicted in Figure 2.

The monitor wells were constructed of 2-inch diameter, Schedule 40, flush threaded PVC well casing with factory slotted (0.01-inch opening) Schedule 40 PVC well screen attached. A uniformly graded silica filter pack was installed in the annular space from total depth to approximately 2.0 feet above the top of the screen and followed by approximately 2.0 to 2.5 feet of bentonite pellets, which were hydrated. The remainder of the boring was grouted to land surface. The monitor wells (with the exception of Monitor Well DMW-2) were constructed with the top of the well screen above the water table to allow for detection of potential free-phase liquid hydrocarbon. Monitor Well DMW-2 was constructed with a six-inch diameter outer casing set at an approximate depth of 72 feet bgs. Air hammer techniques were used to drill through the outer casing and complete the pit-cased well to 80 feet the following day. The monitor wells were completed with a water-tight, locking PVC cap, protected by a flush finished concrete pad with a 9-inch diameter steel, traffic rated manhole with a bolt down cover. Following installations, the monitor wells were developed with a clean, centrifugal pump to remove any fine materials that may impede the flow of groundwater into the well. Monitor well construction details and lithologic descriptions are presented in Appendix C.

2.3 Site Geology

Visual analysis of subsurface soils collected from field screening activities and monitor well installations conducted as part of this assessment indicated soil types ranging from micaceous silty clay, clay, silty sand, fine to medium sand, and saprolite (gneiss). The maximum depth of the current investigation was approximately 80 feet bgs. A geologic transect map is provided as Figure 3, and geologic cross sections are provided as Figures 4 and 5.

2.4 Site Hydrogeology

During the November 15, 2007, gauging event, approximately 0.26 feet, 0.02 feet, 0.31 feet, 1.76 feet, and 0.30 feet of liquid phase hydrocarbons (LPH) were detected at Monitor Wells MW-1, MW-5, MW-8, MW-10, and MW-11, respectively. Groundwater flow direction is in a southwesterly direction with an estimated hydraulic gradient of 0.0310 feet per foot, as measured between Monitor Wells MW-7 and MW-4. Groundwater measurements are summarized in Table I, and a groundwater elevation contour map is depicted in Figure 6.

2.5 Groundwater and Soil Sampling and Analysis

2.5.1 Soil Sampling and Analysis

During the monitor well installation activities, soil samples were collected at five-foot intervals at Monitor Wells MW-8 through MW-13. The soil interval (above the water table) that displayed the highest reading on a calibrated photo-ionization detector–organic vapor analyzer (PID) was collected for laboratory analysis. New, disposable, latex gloves were used to maintain sample integrity during the sampling process. The soil samples were placed in laboratory supplied containers, placed on ice, and shipped via FedEx to SPL, Inc. in Scott, Louisiana for proper analysis. Proper preservation methods and chain-of-custody procedures were followed throughout the sampling process. The groundwater samples were analyzed for BTEX and naphthalene by EPA method 8260B.

2.5.2 Monitor Well Sampling and Analysis

During the current assessment activities, ATC personnel obtained groundwater samples from Monitor Wells MW-1 through MW-13, DMW-1, and DMW-2. Two additional monitor wells (identified as Monitor Wells KMO-17 and KMO-18) were sampled as part of this assessment. These monitor wells were installed for assessment work at the KMO #117 Gasoline Station (UST Permit Number 00707), which is located hydraulically down-gradient from the subject site. A new, disposable, polyethylene bailer was used for the collection of the water samples from the

monitor wells. Monitor Wells MW-1 through MW-7, KMO-17, and KMO-18 were sampled using the no purge method since the wells' screen properly bracketed the water table. The samples from Monitor Wells MW-8 through MW-13, DMW-1, and DMW-2 were obtained after pH and temperature values had equilibrated unless petroleum odor was emanating from the well. If petroleum odors were observed in the monitor well, the groundwater sample was obtained after three well volumes were purged. All purge water was placed in a drum for proper disposal. Field measurements are presented in Appendix D. New, disposable, latex gloves were used to maintain sample integrity during the sampling process. The groundwater samples were placed in laboratory supplied containers, placed on ice, and shipped via FedEx to SPL, Inc. in Scott, Louisiana for proper analysis. Proper preservation methods and chain-of-custody procedures were followed throughout the sampling process. The groundwater samples were analyzed for BTEX, MTBE, and naphthalene by EPA method 8260B; and Lead by EPA method 6010B.

3.0 GROUNDWATER AND SOIL ANALYTICAL RESULTS

3.1 Soil Sample Analysis

Benzene concentrations were detected at Monitor Wells MW-9, MW-11, and MW-12. Toluene and total xylene concentrations were detected at Monitor Wells MW-8 through MW-11 and MW-13. Ethylbenzene concentrations were detected at Monitor Wells MW-10 and MW-11. Naphthalene concentrations were detected at Monitor Wells MW-8 through MW-10 and MW-13.

Benzene, ethylbenzene, and total xylene concentrations were detected greater than its risk-based screening levels (RBSL) of 0.0070 mg/kg, 1.150 mg/kg, and 14.500 mg/kg, respectively at Monitor Well MW-11. Naphthalene concentrations were detected greater than its RBSL of 0.0360 mg/kg at Monitor Wells MW-9 and MW-10. Soil analytical results are presented in Table III, and soil concentrations are depicted in Figure 7. Laboratory analyses and chain-of-custody are presented in Appendix E.

3.2 Monitor Well Analysis

Groundwater analytical results for the samples collected during the current assessment activities detected benzene, toluene, ethylbenzene, and total xylene (BTEX), naphthalene, and MTBE concentrations in Monitor Wells MW-1, MW-4, MW-5, MW-6, MW-10, MW-11, MW-12, KMO-18, and DMW-1. BTEX concentrations were detected at Monitor Wells MW-5, MW-8, MW-9, MW-13, and DMW-2. Monitor Wells MW-8, MW-13, and DMW-2 contained concentrations of naphthalene. It is possible that Monitor Wells MW-5 and MW-9 contain concentrations of naphthalene due to a laboratory dilution factor of 100 and 500, respectively. Lead concentrations were detected in Monitor Wells MW-1, MW-5, MW-6, MW-8, MW-9, MW-10, MW-11, MW-12, MW-13, KMO-18, and DMW-2.

Benzene concentrations were detected greater than its RBSL of 5 μg/l at Monitor Wells MW-1, MW-4 through MW-6, MW-8 through MW-13, KMO-18, DMW-1, and DMW-2. Toluene concentrations were detected greater than its RBSL of 1000 μg/l at Monitor Wells MW-1, MW-4 through MW-6, and MW-8 through MW-13. Ethylbenzene concentrations were detected greater than its RBSL of 700 μg/l at Monitor Wells MW-1, MW-4, MW-5, and MW-8 through MW-13. Total xylenes were detected greater than its RBSL of 10000 μg/l at Monitor Wells MW-5, MW-9 through MW-12. MTBE concentrations were detected greater than its RBSL of 40 μg/l at Monitor Wells MW-1, MW-4, MW-5, MW-9, MW-10, MW-11, MW-12, KMO-18, and DMW-1. Naphthalene concentrations were detected greater than its RBSL of 25 μg/l at Monitor Wells MW-1, MW-4, MW-8, MW-10 through MW-13, and DMW-1. It is possible that naphthalene concentrations have exceeded its RBSL of 25 μg/l at Monitor Wells MW-5 and MW-9, due to a laboratory dilution factor of 100 and 500, respectively. Lead concentrations were detected greater than its RBSL of 0.015 mg/l at Monitor Wells MW-1, MW-5, MW-9, MW-10, MW-11, MW-13, KMO-18, and DMW-2. Laboratory analytical results are summarized in Table III and Figures 8A and 8B. Laboratory analytical results and chain-of-custody are presented in Appendix E.

4.0 CONCLUSIONS AND RECOMMENDATIONS

- On September 13 and October 11, 2007, ATC Associates Inc. personnel oversaw the free product removal activities at the subject property by NuWay Industrial Services.
- On September 13, 2007, approximately 790 gallons of liquid were removed from the Monitor Wells MW-1 and MW-5.
- On October 11, 2007, approximately 1454 gallons of liquid were removed from the Monitor Wells MW-1, MW-5, MW-8, MW-9, and MW-12.
- Groundwater flow direction is in a southwesterly direction with an estimated hydraulic gradient of 0.0310 feet per foot, as measured between Monitor Wells MW-7 and MW-4.
- During the November 15, 2007 gauging event, approximately 0.26 feet, 0.02 feet, 0.31 feet, 1.76 feet, and 0.30 feet of liquid phase hydrocarbons were detected at Monitor Wells MW-1, MW-5, MW-8, MW-10, and MW-11, respectively.
- Monitor Wells MW-8 through MW-13, and DMW-2 were installed during the current assessment activities.
- Soil samples collected during monitor well installation indicated benzene, ethylbenzene, and total xylene concentrations were detected greater than their respective RBSLs at Monitor Well MW-11. Naphthalene concentrations were detected greater than its RBSL at Monitor Wells MW-9 and MW-10.
- Benzene, toluene, ethylbenzene, xylenes, MTBE, and naphthalene concentrations were detected greater than their RBSLs at Monitor Wells MW-1, MW-4, MW-5, MW-6, MW-8 through MW-13, KMO-18, DMW-1, and DMW-2 during the current assessment activities.
- Total BTEX and naphthalene concentrations have apparently increased at Monitor Well MW-1 and MW-5, due to the presence of LPH during the current and the April 2007 sampling event. BTEX, naphthalene, and MTBE concentrations have remained below laboratory detection limits for the current and April 2007 sampling event at Monitor Wells MW-2, MW-3, and MW-7. BTEX, naphthalene, and MTBE concentrations have increased since the April 2007 sampling event at Monitor Wells MW-4 and DMW-1. BTEX, naphthalene, and MTBE concentrations have decreased at Monitor Well MW-6

since the previous sampling event. No comparison can be made regarding the newly installed wells, or wells that were not sampled during either the current or previous assessment activities.

Due to the presence of liquid phase hydrocarbons existing at Monitor Wells MW-1, MW-5, MW-8, MW-10, MW-11, ATC Associates Inc. recommends two aggressive fluid vapor recovery events approximately 30 days apart at these wells. Furthermore, additional horizontal delineation is needed across South Carolina Highway 81 from the site.

5.0 REPORT LIMITATIONS

This investigation is intended to be a non-biased assessment of on-site environmental conditions proximate to the location of the former UST system. Subsurface investigative methodologies are in accordance with all applicable state and federal regulatory requirements. The information presented in this report is based upon site-specific observations, generally accepted geological practices, and analytical results for environmental samples collected at the time of the field investigation. All data is believed to represent subsurface conditions at the facility, however, data may not be completely representative of all subsurface conditions.

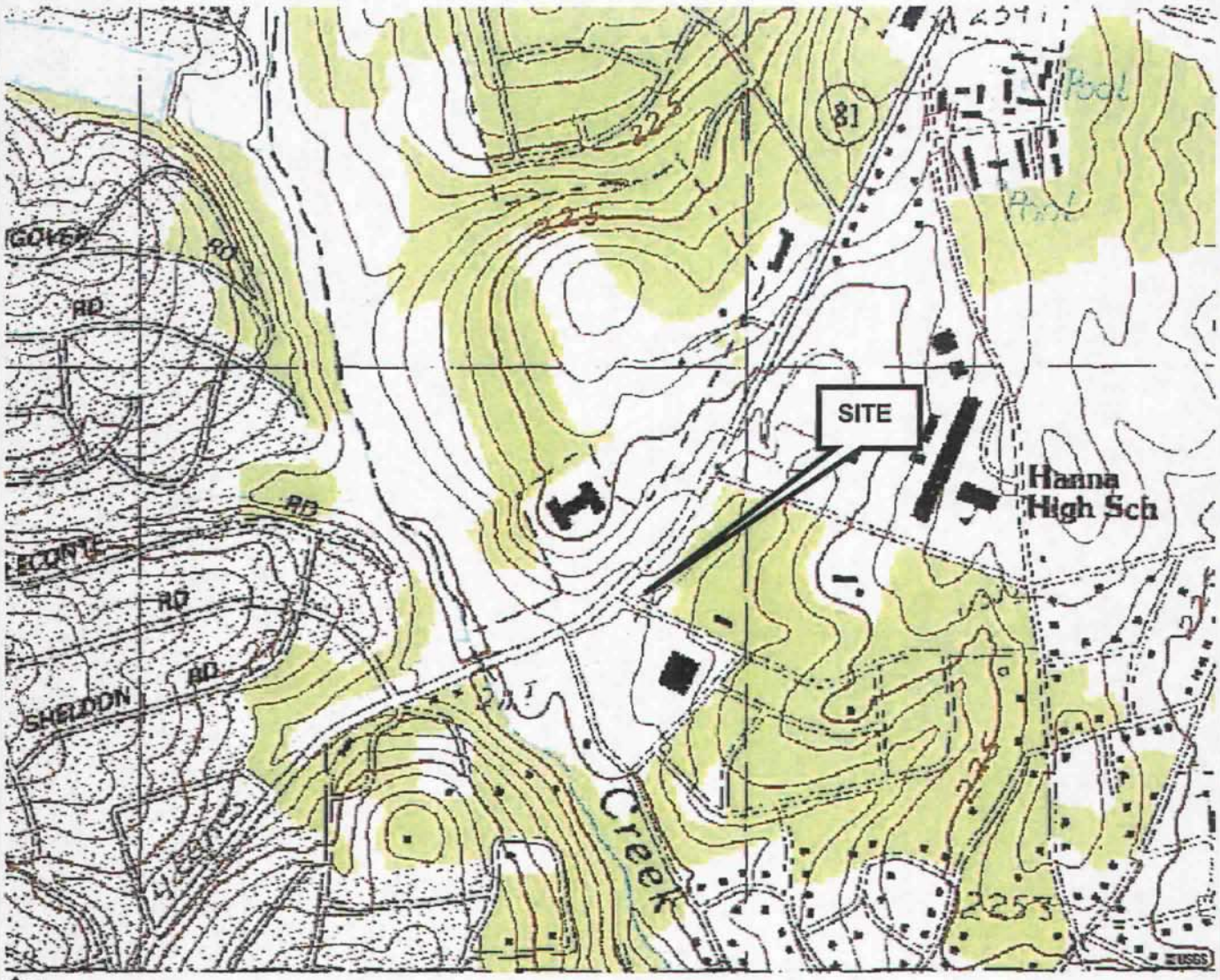
REFERENCES

ATC Associates Inc., July 7, 2006, *Groundwater Sampling Report –81 Food Mart (Former Pantry 585)*, Columbia, South Carolina.

ATC Associates Inc., July 17, 2007, *Groundwater Assessment Report –81 Food Mart (Former Pantry 585)*, Columbia, South Carolina.

SCDHEC, May 15, 2001, *Risk-Based Corrective Action for Petroleum Releases*, Columbia, South Carolina.

FIGURES



↑N

Figure 1: Site Location Map
81 Food Mart
(Former Pantry #585)
1502 East Greenville Street
Anderson, South Carolina
UST Permit #12458

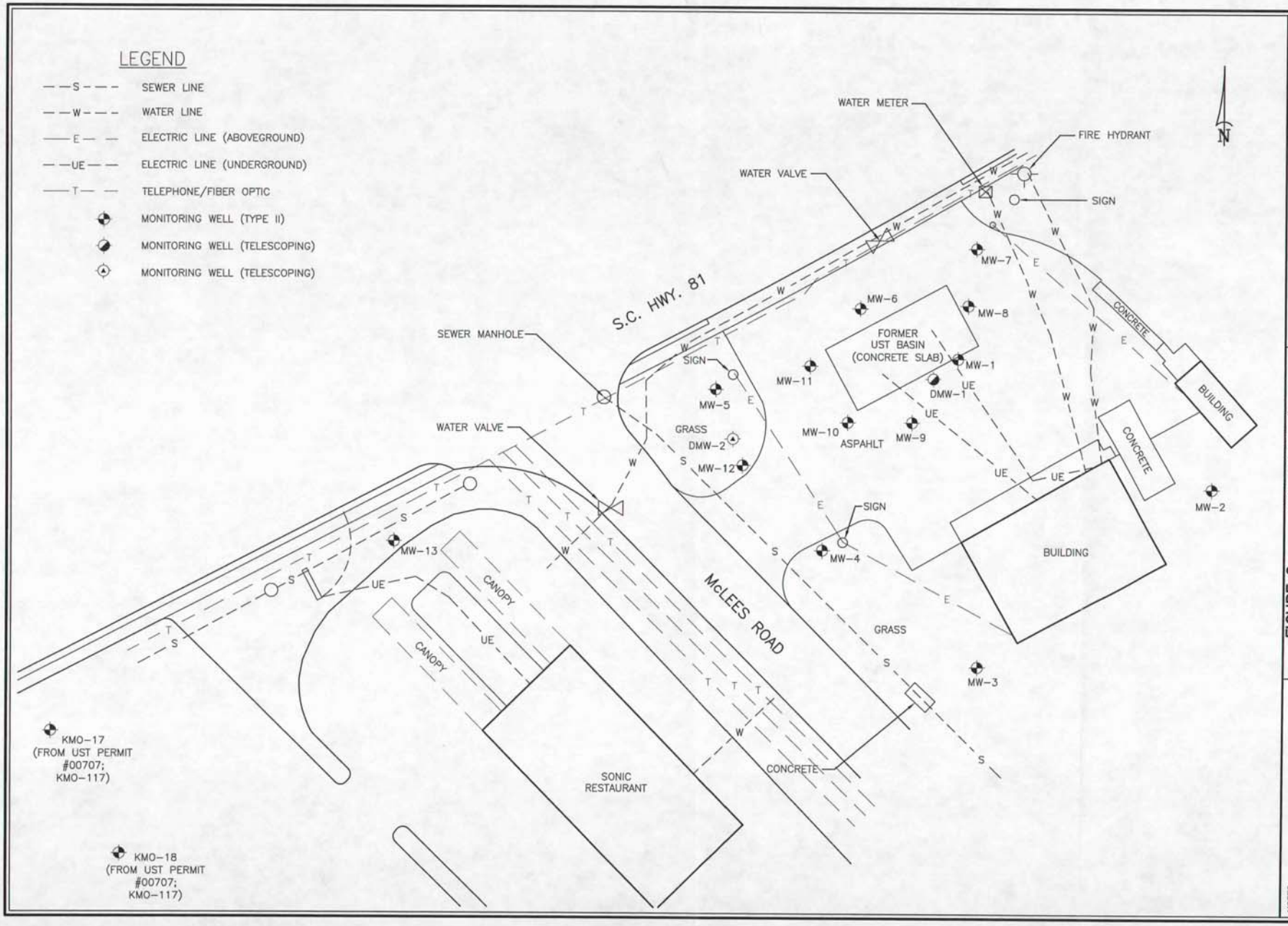
ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q Phone (803) 735-0003
Columbia, South Carolina Fax (803) 735-0443

ATC PROJECT No: 14.25384.0585

SOURCE: USGS Topographic Map Anderson, SC Quadrangle

1"= 885'



ATC ASSOCIATES INC.
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TITLE FIGURE 2 UST PERMIT #12458
SITE MAP
FORMER PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

CAD FILE	TYPE CODE	PREP. BY	REV. BY	SCALE	DATE	PROJECT NO.
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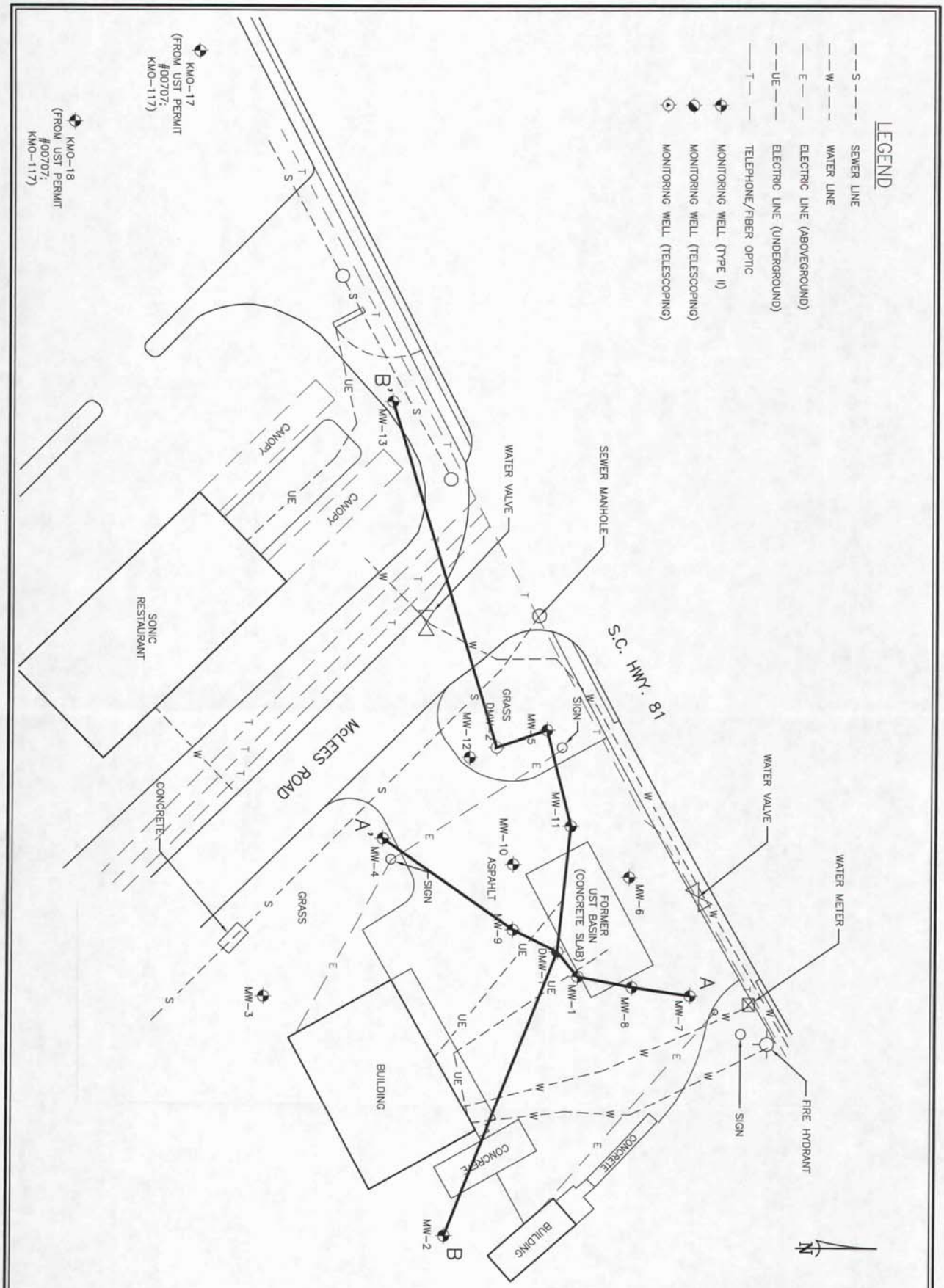
NOTES:



NOTES:

TITLE **FIGURE 3** UST PERMIT #12458
GEOLOGIC TRANSECT MAP
FORMER PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

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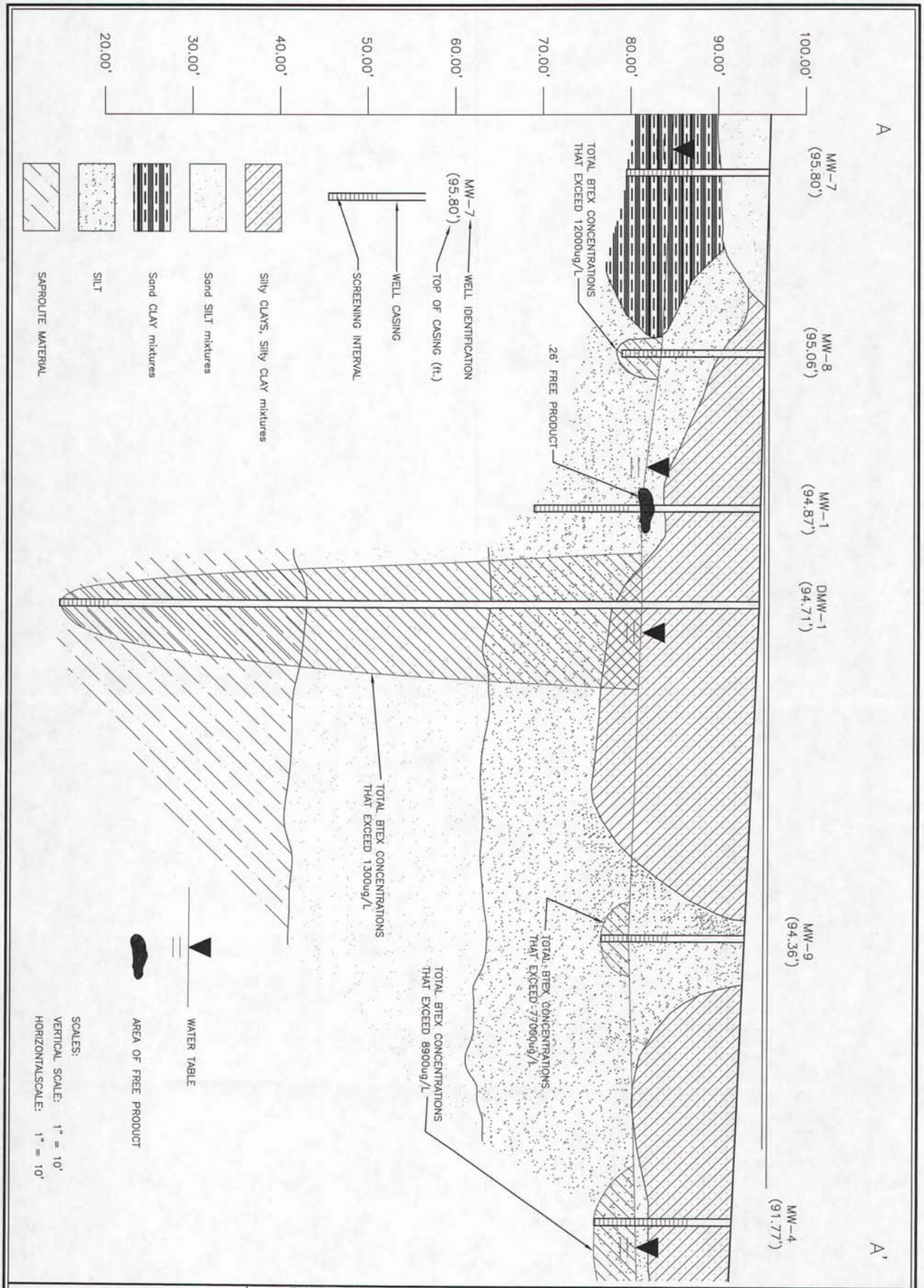

NOTES:

TITLE **FIGURE 4** UST PERMIT #12458
GEOLOGIC CROSS-SECTION A-A'
FORMER PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

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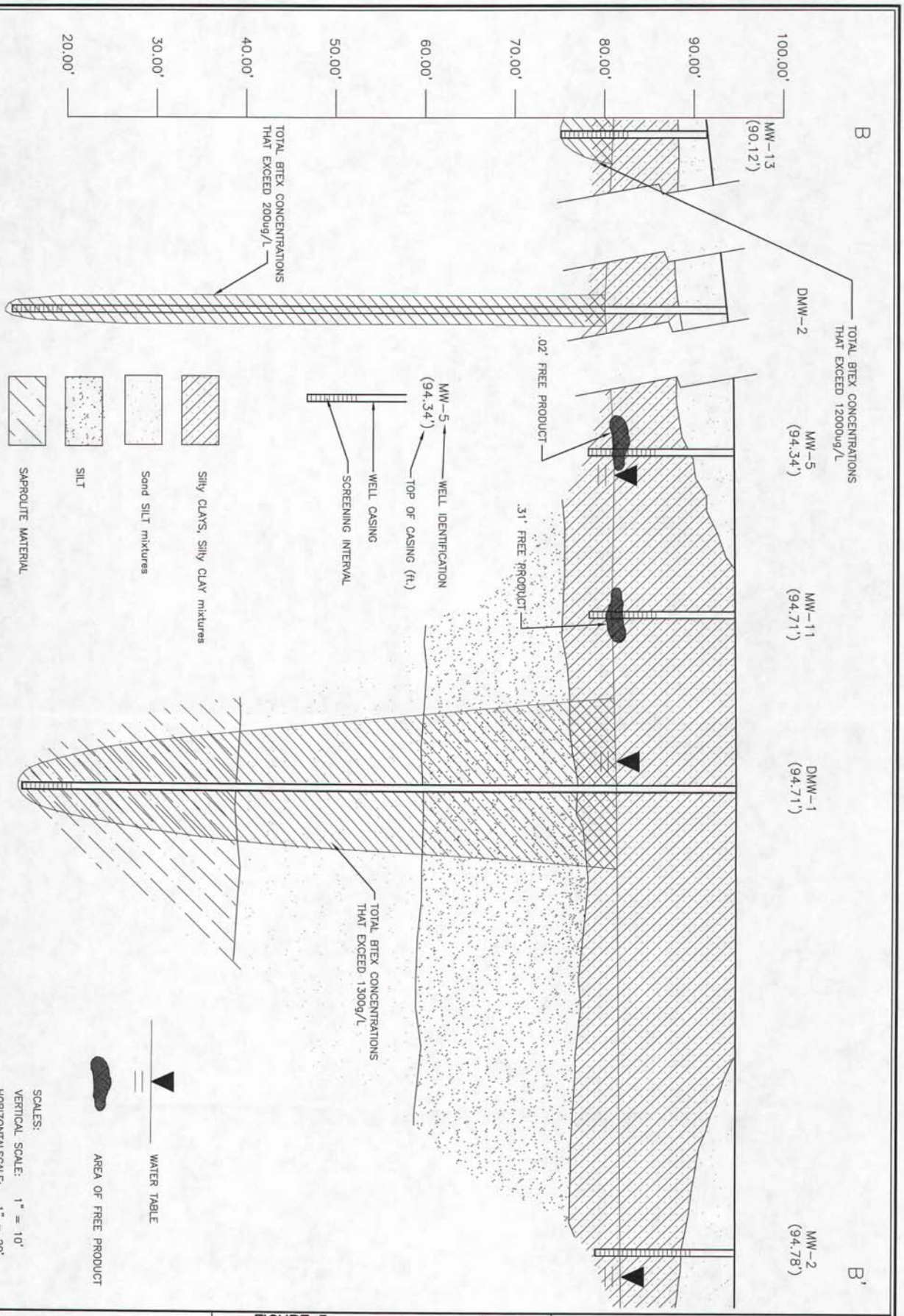

NOTES:

TITLE **FIGURE 5** UST PERMIT #12458
GEOLOGIC CROSS-SECTION B-B'
FORMER PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

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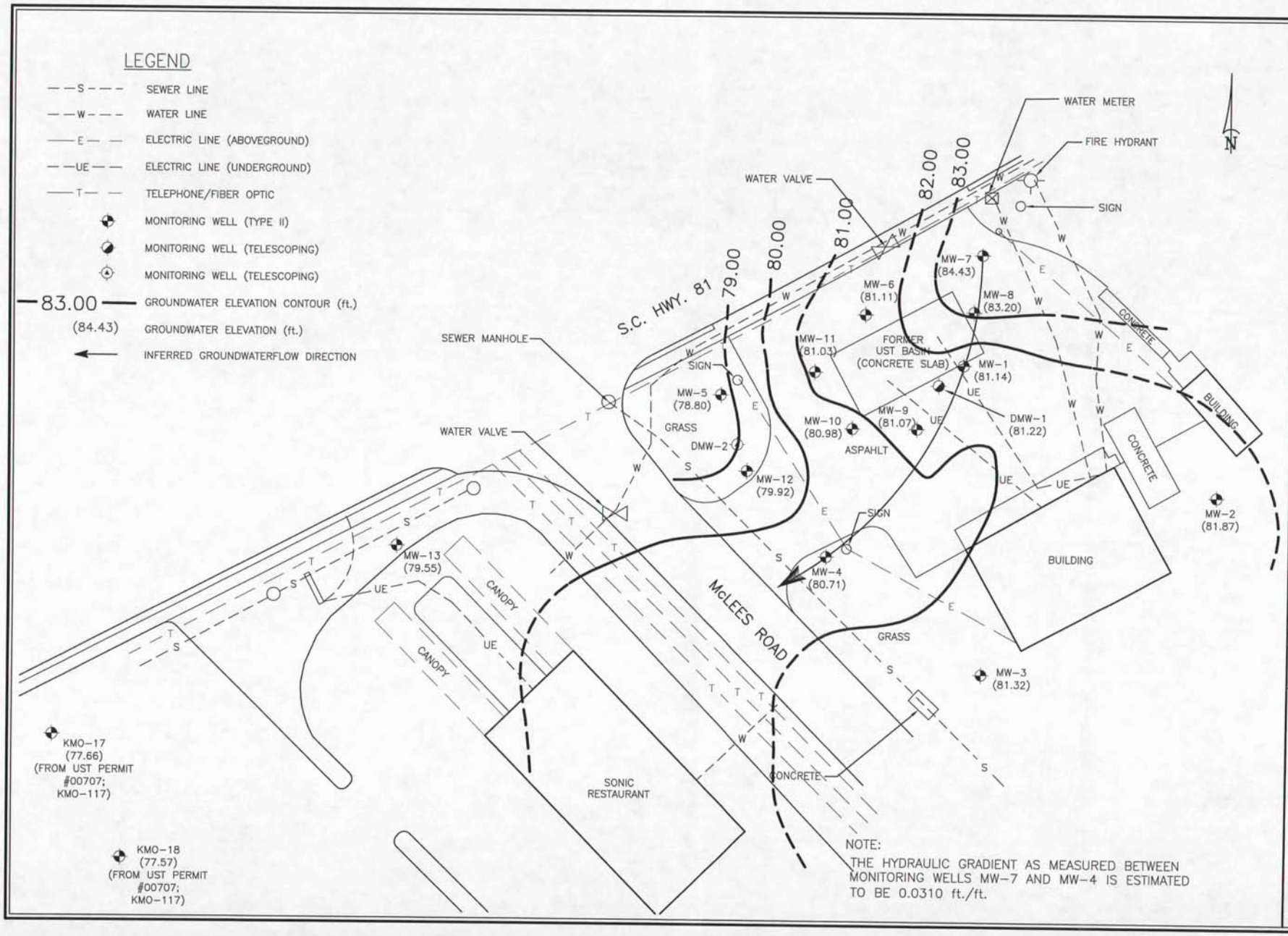

NOTES:
1. MONITORING WELLS DMW-1 AND DMW-2 WERE NOT FACTORED INTO THE GROUNDWATER ELEVATION CONTOUR MAP.

TITLE **FIGURE 6** UST PERMIT #12458
GROUNDWATER ELEVATION CONTOUR MAP
FORMER PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

CAD FILE: 1253237.dwg | TYPE CODE | PREP. BY: JK | REV. BY | SCALE: 1" = 30' | DATE: 12-19-2007 | PROJECT NO. 14.25384.0585

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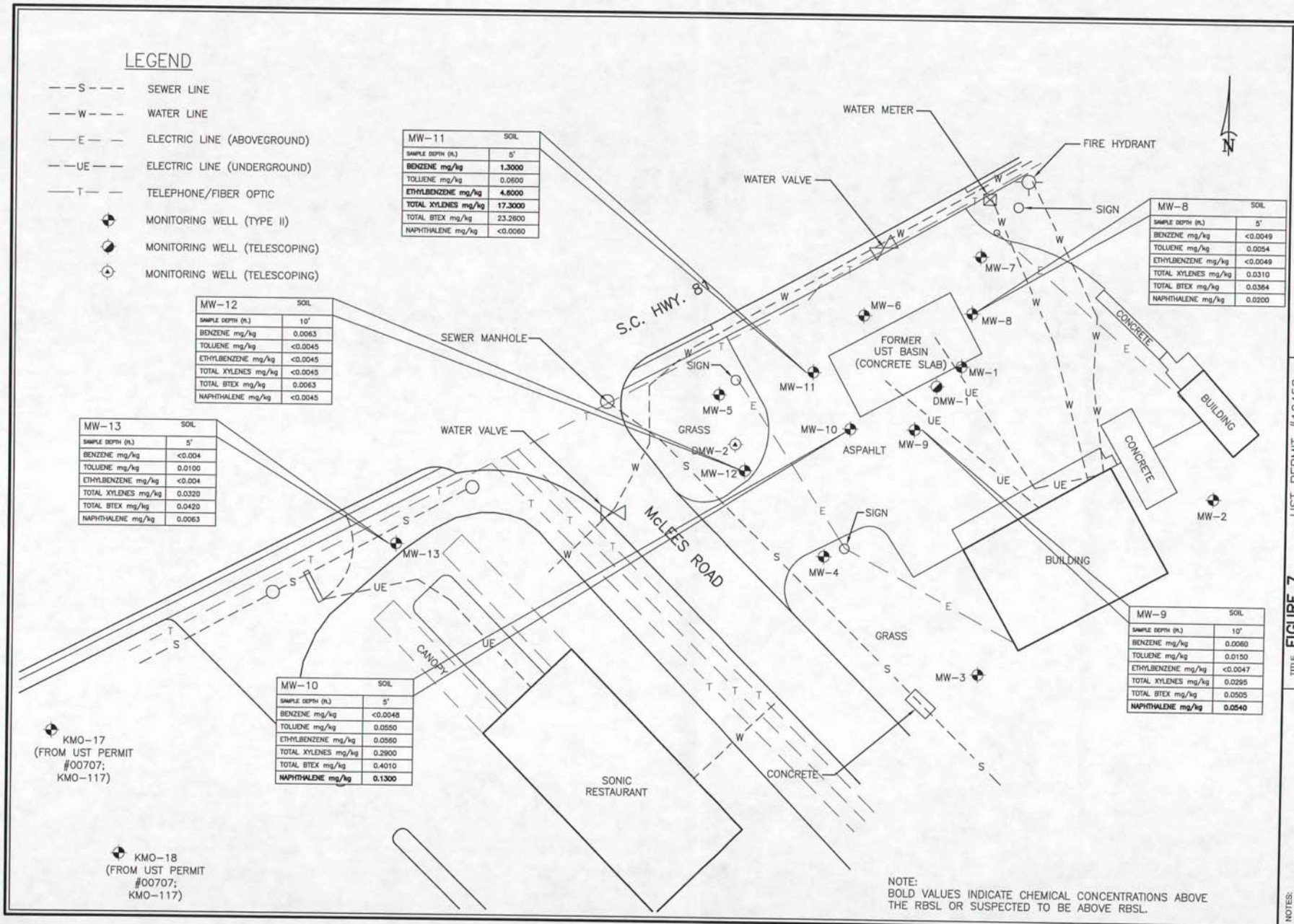

MW-11	SOIL
SAMPLE DEPTH (ft.)	5'
BENZENE mg/kg	**1.3000**
TOLUENE mg/kg	0.0600
ETHYLBENZENE mg/kg	**4.8000**
TOTAL XYLENES mg/kg	**17.3000**
TOTAL BTEX mg/kg	23.2600
NAPHTHALENE mg/kg	<0.0060

MW-8	SOIL
SAMPLE DEPTH (ft.)	5'
BENZENE mg/kg	<0.0049
TOLUENE mg/kg	0.0054
ETHYLBENZENE mg/kg	<0.0049
TOTAL XYLENES mg/kg	0.0310
TOTAL BTEX mg/kg	0.0364
NAPHTHALENE mg/kg	0.0200

MW-12	SOIL
SAMPLE DEPTH (ft.)	10'
BENZENE mg/kg	0.0063
TOLUENE mg/kg	<0.0045
ETHYLBENZENE mg/kg	<0.0045
TOTAL XYLENES mg/kg	<0.0045
TOTAL BTEX mg/kg	0.0063
NAPHTHALENE mg/kg	<0.0045

MW-13	SOIL
SAMPLE DEPTH (ft.)	5'
BENZENE mg/kg	<0.004
TOLUENE mg/kg	0.0100
ETHYLBENZENE mg/kg	<0.004
TOTAL XYLENES mg/kg	0.0320
TOTAL BTEX mg/kg	0.0420
NAPHTHALENE mg/kg	0.0063

MW-10	SOIL
SAMPLE DEPTH (ft.)	5'
BENZENE mg/kg	<0.0048
TOLUENE mg/kg	0.0550
ETHYLBENZENE mg/kg	0.0560
TOTAL XYLENES mg/kg	0.2900
TOTAL BTEX mg/kg	0.4010
NAPHTHALENE mg/kg	**0.1300**

MW-9	SOIL
SAMPLE DEPTH (ft.)	10'
BENZENE mg/kg	0.0060
TOLUENE mg/kg	0.0150
ETHYLBENZENE mg/kg	<0.0047
TOTAL XYLENES mg/kg	0.0295
TOTAL BTEX mg/kg	0.0505
NAPHTHALENE mg/kg	**0.0540**

NOTE:
BOLD VALUES INDICATE CHEMICAL CONCENTRATIONS ABOVE THE RBSL OR SUSPECTED TO BE ABOVE RBSL.

NOTES:
1. BOLD NUMBER INDICATES CHEMICAL CONCENTRATIONS ABOVE THE RBSL OR SUSPECTED TO BE ABOVE RBSL.
2. * = MEASURED IN mg/L

ATC ASSOCIATES INC.
Columbia, South Carolina 29203 (803) 735-0003 FAX (803) 735-0443

TITLE **FIGURE 7** UST PERMIT #12458
SOIL CONCENTRATIONS MAP
FORMER PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

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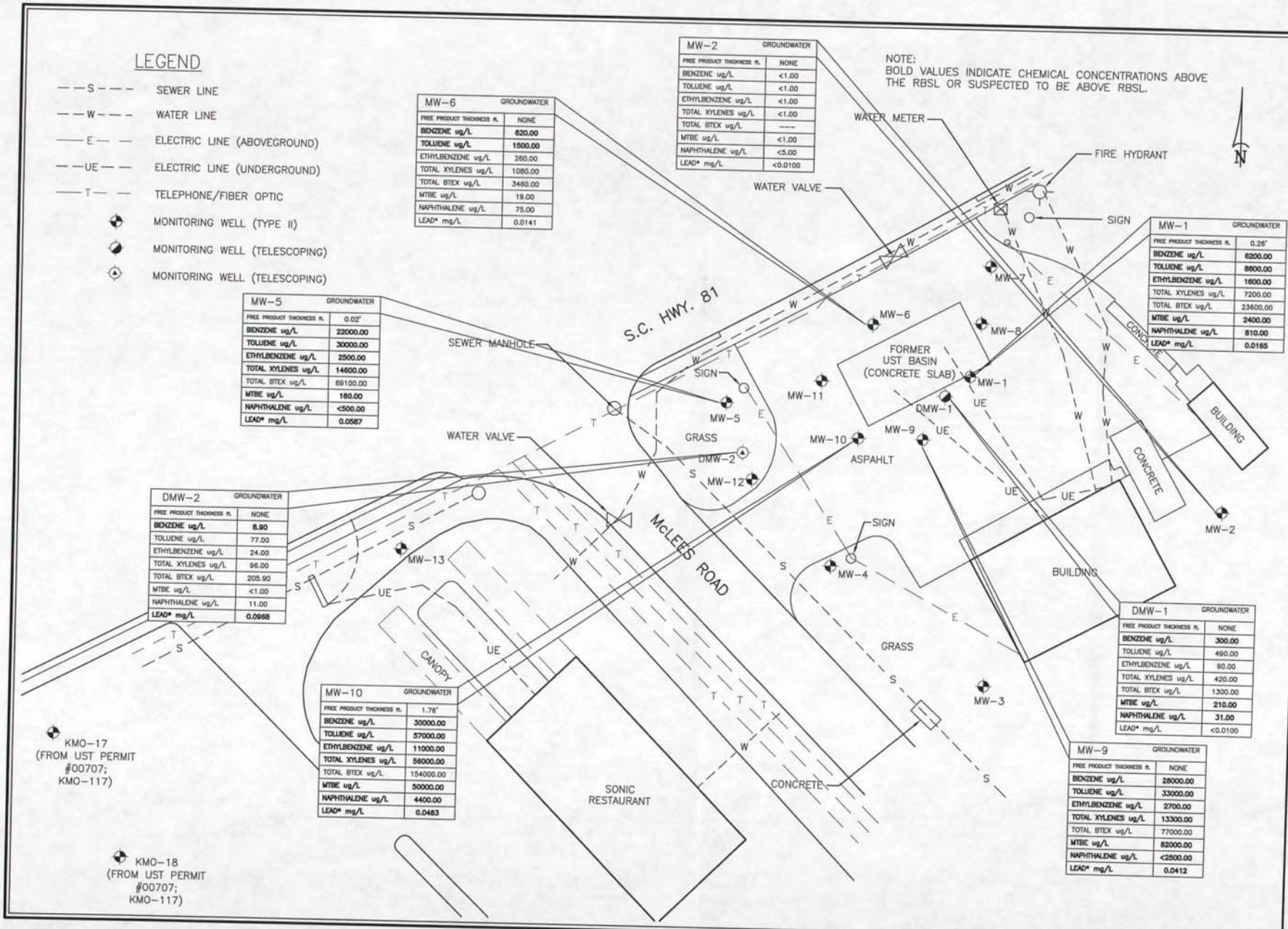


MW-2	GROUNDWATER
FREE PRODUCT THICKNESS ft.	NONE
BENZENE ug/L	<1.00
TOLUENE ug/L	<1.00
ETHYLBENZENE ug/L	<1.00
TOTAL XYLENES ug/L	<1.00
TOTAL BTEX ug/L	----
MTBE ug/L	<1.00
NAPHTHALENE ug/L	<5.00
LEAD* mg/L	<0.0100

MW-6	GROUNDWATER
FREE PRODUCT THICKNESS ft.	NONE
BENZENE ug/L	**620.00**
TOLUENE ug/L	**1500.00**
ETHYLBENZENE ug/L	260.00
TOTAL XYLENES ug/L	1080.00
TOTAL BTEX ug/L	3460.00
MTBE ug/L	19.00
NAPHTHALENE ug/L	75.00
LEAD* mg/L	0.0141

MW-1	GROUNDWATER
FREE PRODUCT THICKNESS ft.	0.26'
BENZENE ug/L	**6200.00**
TOLUENE ug/L	**8600.00**
ETHYLBENZENE ug/L	**1600.00**
TOTAL XYLENES ug/L	7200.00
TOTAL BTEX ug/L	23600.00
MTBE ug/L	**2400.00**
NAPHTHALENE ug/L	**810.00**
LEAD* mg/L	**0.0165**

MW-5	GROUNDWATER
FREE PRODUCT THICKNESS ft.	0.02'
BENZENE ug/L	**22000.00**
TOLUENE ug/L	**30000.00**
ETHYLBENZENE ug/L	**2500.00**
TOTAL XYLENES ug/L	**14600.00**
TOTAL BTEX ug/L	69100.00
MTBE ug/L	**160.00**
NAPHTHALENE ug/L	**<500.00**
LEAD* mg/L	**0.0587**

DMW-2	GROUNDWATER
FREE PRODUCT THICKNESS ft.	NONE
BENZENE ug/L	**8.90**
TOLUENE ug/L	77.00
ETHYLBENZENE ug/L	24.00
TOTAL XYLENES ug/L	96.00
TOTAL BTEX ug/L	205.90
MTBE ug/L	<1.00
NAPHTHALENE ug/L	11.00
LEAD* mg/L	**0.0968**

MW-10	GROUNDWATER
FREE PRODUCT THICKNESS ft.	1.78'
BENZENE ug/L	**30000.00**
TOLUENE ug/L	**57000.00**
ETHYLBENZENE ug/L	**11000.00**
TOTAL XYLENES ug/L	**56000.00**
TOTAL BTEX ug/L	154000.00
MTBE ug/L	**50000.00**
NAPHTHALENE ug/L	**4400.00**
LEAD* mg/L	**0.0483**

DMW-1	GROUNDWATER
FREE PRODUCT THICKNESS ft.	NONE
BENZENE ug/L	**300.00**
TOLUENE ug/L	490.00
ETHYLBENZENE ug/L	90.00
TOTAL XYLENES ug/L	420.00
TOTAL BTEX ug/L	1300.00
MTBE ug/L	**210.00**
NAPHTHALENE ug/L	**31.00**
LEAD* mg/L	<0.0100

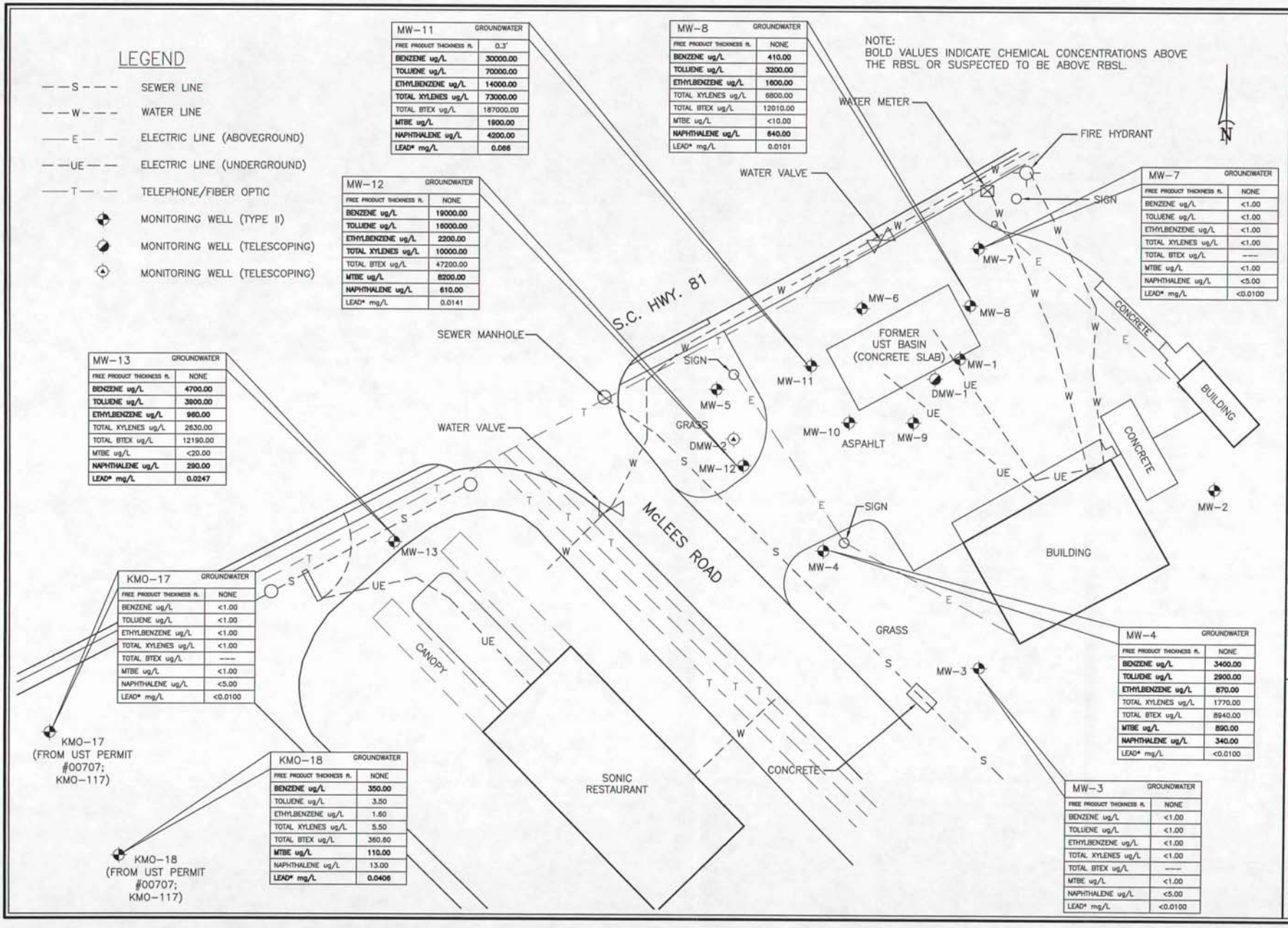
MW-9	GROUNDWATER
FREE PRODUCT THICKNESS ft.	NONE
BENZENE ug/L	**28000.00**
TOLUENE ug/L	**33000.00**
ETHYLBENZENE ug/L	**2700.00**
TOTAL XYLENES ug/L	**13300.00**
TOTAL BTEX ug/L	77000.00
MTBE ug/L	**82000.00**
NAPHTHALENE ug/L	**<2500.00**
LEAD* mg/L	**0.0412**

NOTES:
1. BOLD NUMBER INDICATES CHEMICAL CONCENTRATIONS ABOVE THE RBSL OR SUSPECTED TO BE ABOVE RBSL.
2. * = MEASURED IN mg/L

ATC ASSOCIATES INC.
Columbia, South Carolina 29203 (803) 735-0003 FAX (803) 735-0443

TITLE **FIGURE 8A** UST PERMIT #12458
GROUNDWATER CONCENTRATIONS MAP
FORMER PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

CAD FILE	TYPE CODE	PREP. BY	REV. BY	SCALE	DATE	PROJECT NO.
1253237.dwg		JK		1" = 30'	12-19-2007	14.25384.0585



MW-11	GROUNDWATER
FREE PRODUCT THICKNESS ft.	0.3'
BENZENE ug/L	**30000.00**
TOLUENE ug/L	**70000.00**
ETHYLBENZENE ug/L	**14000.00**
TOTAL XYLENES ug/L	**73000.00**
TOTAL BTEX ug/L	187000.00
MTBE ug/L	**1900.00**
NAPHTHALENE ug/L	**4200.00**
LEAD* mg/L	**0.066**

MW-8	GROUNDWATER
FREE PRODUCT THICKNESS ft.	NONE
BENZENE ug/L	**410.00**
TOLUENE ug/L	**3200.00**
ETHYLBENZENE ug/L	**1600.00**
TOTAL XYLENES ug/L	6800.00
TOTAL BTEX ug/L	12010.00
MTBE ug/L	<10.00
NAPHTHALENE ug/L	**640.00**
LEAD* mg/L	0.0101

MW-7	GROUNDWATER
FREE PRODUCT THICKNESS ft.	NONE
BENZENE ug/L	<1.00
TOLUENE ug/L	<1.00
ETHYLBENZENE ug/L	<1.00
TOTAL XYLENES ug/L	<1.00
TOTAL BTEX ug/L	----
MTBE ug/L	<1.00
NAPHTHALENE ug/L	<5.00
LEAD* mg/L	<0.0100

MW-12	GROUNDWATER
FREE PRODUCT THICKNESS ft.	NONE
BENZENE ug/L	**19000.00**
TOLUENE ug/L	**16000.00**
ETHYLBENZENE ug/L	**2200.00**
TOTAL XYLENES ug/L	**10000.00**
TOTAL BTEX ug/L	47200.00
MTBE ug/L	**8200.00**
NAPHTHALENE ug/L	**610.00**
LEAD* mg/L	0.0141

MW-13	GROUNDWATER
FREE PRODUCT THICKNESS ft.	NONE
BENZENE ug/L	**4700.00**
TOLUENE ug/L	**3900.00**
ETHYLBENZENE ug/L	**960.00**
TOTAL XYLENES ug/L	2630.00
TOTAL BTEX ug/L	12190.00
MTBE ug/L	<20.00
NAPHTHALENE ug/L	**290.00**
LEAD* mg/L	**0.0247**

KMO-17	GROUNDWATER
FREE PRODUCT THICKNESS ft.	NONE
BENZENE ug/L	<1.00
TOLUENE ug/L	<1.00
ETHYLBENZENE ug/L	<1.00
TOTAL XYLENES ug/L	<1.00
TOTAL BTEX ug/L	----
MTBE ug/L	<1.00
NAPHTHALENE ug/L	<5.00
LEAD* mg/L	<0.0100

KMO-18	GROUNDWATER
FREE PRODUCT THICKNESS ft.	NONE
BENZENE ug/L	**350.00**
TOLUENE ug/L	3.50
ETHYLBENZENE ug/L	1.60
TOTAL XYLENES ug/L	5.50
TOTAL BTEX ug/L	360.60
MTBE ug/L	**110.00**
NAPHTHALENE ug/L	13.00
LEAD* mg/L	**0.0406**

MW-4	GROUNDWATER
FREE PRODUCT THICKNESS ft.	NONE
BENZENE ug/L	**3400.00**
TOLUENE ug/L	**2900.00**
ETHYLBENZENE ug/L	**870.00**
TOTAL XYLENES ug/L	1770.00
TOTAL BTEX ug/L	8940.00
MTBE ug/L	**890.00**
NAPHTHALENE ug/L	**340.00**
LEAD* mg/L	<0.0100

MW-3	GROUNDWATER
FREE PRODUCT THICKNESS ft.	NONE
BENZENE ug/L	<1.00
TOLUENE ug/L	<1.00
ETHYLBENZENE ug/L	<1.00
TOTAL XYLENES ug/L	<1.00
TOTAL BTEX ug/L	----
MTBE ug/L	<1.00
NAPHTHALENE ug/L	<5.00
LEAD* mg/L	<0.0100

NOTES:
1. BOLD NUMBER INDICATES CHEMICAL CONCENTRATIONS ABOVE THE RBSL OR SUSPECTED TO BE ABOVE RBSL.
2. * = MEASURED IN mg/L

ATC ASSOCIATES INC.
Columbia, South Carolina 29203 (803) 735-0003 FAX (803) 735-0443

TITLE **FIGURE 8B** UST PERMIT #12458
GROUNDWATER CONCENTRATIONS MAP
FORMER PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

CAD FILE	TYPE CODE	PREP. BY	REV. BY	SCALE	DATE	PROJECT NO.
1253237.dwg		JK		1" = 30'	12-19-2007	14.25384.0585

TABLES

TABLE I
Groundwater Elevation Data
81 Food Mart / Former Pantry #585
Anderson, South Carolina

Monitor Well Number	Gauging Date	Top of Casing Elevation (feet)	Depth to Water (feet)	LPH Thickness (feet)	Depth of Well (feet)	Water Table Elevation (feet)
MW-1	11/15/2007	94.87	*13.73	0.26	25	81.14
MW-2	11/15/2007	94.78	12.91	0	20	81.87
MW-3	11/15/2007	91.60	10.28	0	15	81.32
MW-4	11/15/2007	91.77	11.06	0	15	80.71
MW-5	11/15/2007	94.34	*15.54	0.02	15	78.80
MW-6	11/15/2007	95.34	14.23	0	18	81.11
MW-7	11/15/2007	95.80	11.37	0	15	84.43
MW-8	11/15/2007	95.06	*11.86	0.31	17	83.20
MW-9	11/15/2007	94.36	13.29	0	17	81.07
MW-10	11/15/2007	94.29	*13.31	1.76	17	80.98
MW-11	11/15/2007	94.71	*13.68	0.30	17	81.03
MW-12	11/15/2007	92.18	12.26	0	17	79.92
MW-13	11/15/2007	90.12	10.57	0	13	79.55
KMO-17	11/15/2007	87.79	10.13	0	15	77.66
KMO-18	11/15/2007	85.93	8.36	0	15	77.57
DMW-1	11/15/2007	94.71	13.49	0	78	81.22
DMW-2	11/15/2007	NM	13.76	0	80	---

Top of casing elevations are based on an assumed elevation. LPH = Liquid Phase Hydrocarbons,
*Adjusted depth to water = Depth to water – (0.78 x free product thickness)
NM = Not Measured

TABLE II
Soil Analytical Results
81 Food Mart / Former Pantry #585
Anderson, South Carolina

Chemical of Concern	RBSL (mg/kg)	MW-8 (mg/kg)	MW-9 (mg/kg)	MW-10 (mg/kg)	MW-11 (mg/kg)	MW-12 (mg/kg)	MW-13 (mg/kg)
Sample Date	NA	10/1/2007	10/1/2007	10/1/2007	10/2/2007	10/2/2007	10/1/2007
PID-OVA (ppm)	NA	880	1978	1691	965	1921	0.1
Depth of Sample (Feet)	NA	5	10	5	5	10	5
Benzene	0.0070	<0.0049	0.0060	<0.0048	**1.3000**	0.0063	<0.004
Toluene	1.4500	0.0054	0.0150	0.0550	0.0600	<0.0045	0.0100
Ethylbenzene	1.1500	<0.0049	<0.0047	0.0560	**4.6000**	<0.0045	<0.004
Xylenes	14.5000	0.0310	0.0295	0.2900	**17.3000**	<0.0045	0.0320
Total BTEX	NA	0.0364	0.0505	0.4010	23.2600	0.0063	0.0420
Naphthalene	0.0360	0.0200	**0.0540**	**0.1300**	<0.0060	<0.0045	0.0063

NS = Not Sampled
NA = Not Applicable
Bold number indicates chemical concentrations above the RBSL or suspected to be above RBSL
PID-OVA = photo ionization detector - organic vapor analyzer

TABLE III
Groundwater Analytical Results
81 Food Mart / Former Pantry #585
Anderson, South Carolina

Chemical of Concern	RBSL (µg/l)	MW-1 (µg/l)	MW-2 (µg/l)	MW-3 (µg/l)	MW-4 (µg/l)	MW-5 (µg/l)	MW-6 (µg/l)	MW-7 (µg/l)	MW-8 (µg/l)	MW-9 (µg/l)
Free Product Thickness (feet)	NA	0.26	None	None	None	0.02	None	None	0.31	None
Benzene	5	**6200.00**	<1.00	<1.00	**3400.00**	**22000.00**	**620.00**	<1.00	**410.00**	**28000.00**
Toluene	1,000	**8600.00**	<1.00	<1.00	**2900.00**	**30000.00**	**1500.00**	<1.00	**3200.00**	**33000.00**
Ethylbenzene	700	**1600.00**	<1.00	<1.00	**870.00**	**2500.00**	260.00	<1.00	**1600.00**	**2700.00**
Xylenes (total)	10,000	7200.00	<1.00	<1.00	1770.00	**14600.00**	1080.00	<1.00	6800.00	**13300.00**
Total BTEX	N/A	23600.00	---	---	8940.00	69100.00	3460.00	---	12010.00	77000.00
MTBE	40	**2400.00**	<1.00	<1.00	**890.00**	**160.00**	19.00	<1.00	<10.00	**82000.00**
Naphthalene	25	**810.00**	<5.00	<5.00	**340.00**	**<500.00**	75.00	<5.00	**640.00**	**<2500.00**
Lead*	*0.015	**0.0165**	<0.0100	<0.0100	<0.0100	**0.0587**	0.0141	<0.0100	0.0101	**0.0412**

Notes:
ND = None Detected, NA = Not Analyzed, N/A = Not Applicable or not Established, NS = Not Sampled
Bold number indicates chemical concentrations above the RBSL or suspected to be above RBSL
MTBE = Methyl-tertiary-butyl-ether
All concentration are listed in µg/l, unless otherwise noted. * = mg/l

TABLE III
Groundwater Analytical Results
81 Food Mart / Former Pantry #585
Anderson, South Carolina

Chemical of Concern	RBSL (µg/l)	MW-10 (µg/l)	MW-11 (µg/l)	MW-12 (µg/l)	MW-13 (µg/l)	KMO-17 (µg/l)	KMO-18 (µg/l)	DMW-1 (µg/l)	DMW-2 (µg/l)
Free Product Thickness (feet)	NA	1.76	0.3	None	None	None	None	None	None
Benzene	5	**30000.00**	**30000.00**	**19000.00**	**4700.00**	<1.00	**350.00**	**300.00**	**8.90**
Toluene	1,000	**57000.00**	**70000.00**	**16000.00**	**3900.00**	<1.00	3.50	490.00	77.00
Ethylbenzene	700	**11000.00**	**14000.00**	**2200.00**	**960.00**	<1.00	1.60	90.00	24.00
Xylenes (total)	10,000	**56000.00**	**73000.00**	**10000.00**	2630.00	<1.00	5.50	420.00	96.00
Total BTEX	N/A	154000.00	187000.00	47200.00	12190.00	---	360.60	1300.00	205.90
MTBE	40	**50000.00**	**1900.00**	**8200.00**	<20.00	<1.00	**110.00**	**210.00**	<1.00
Naphthalene	25	**4400.00**	**4200.00**	**610.00**	**290.00**	<5.00	13.00	**31.00**	11.00
Lead*	*0.015	**0.0483**	**0.066**	0.0141	**0.0247**	<0.0100	**0.0406**	<0.0100	**0.0968**

Notes:
ND = None Detected, NA = Not Analyzed, N/A = Not Applicable or not Established, NS = Not Sampled
Bold number indicates chemical concentrations above the RBSL or suspected to be above RBSL
MTBE = Methyl-tertiary-butyl-ether
All concentration are listed in µg/l, unless otherwise noted. * = mg/l

TABLE IV
Historical Groundwater Analytical Results
81 Food Mart / Former Pantry #585
Anderson, South Carolina

Sample Location	Date	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	Total BTEX (µg/l)	MTBE (µg/l)	Naphthalene (µg/l)
MW-1	November-00	**7050**	**13100**	**1590**	7590	29330	**2470**	**610**
	June-06	NS	NS	NS	NS	---	NS	NS
	April-07	NS	NS	NS	NS	---	NS	NS
	November-07	**6200**	**8600**	**1600**	7200	23600	**2400**	**810**
MW-2	November-00	2.1	25	5.1	39.6	71.8	<2.0	14.9
	June-06	<5.0	<5.0	<5.0	<5.0	---	<5.0	<5.0
	April-07	<5.0	<5.0	<5.0	<5.0	---	<5.0	<5.0
	November-07	<1.0	<1.0	<1.0	<1.0	---	<1.0	<5.0
MW-3	November-00	<2.0	4.1	<2.0	<2.0	4.1	<2.0	15.9
	June-06	<5.0	<5.0	<5.0	<5.0	---	<5.0	<5.0
	April-07	<5.0	<5.0	<5.0	<5.0	---	<5.0	<5.0
	November-07	<1.0	<1.0	<1.0	<1.0	---	<1.0	<5.0
MW-4	April-07	**2200**	**2100**	530	930	5760	**660**	**180**
	November-07	**3400**	**2900**	**870**	1770	8940	**890**	**340**
MW-5	April-07	NS	NS	NS	NS	---	NS	NS
	November-07	**22000**	**30000**	**2500**	**14600**	69100	**160**	**<500.0**
MW-6	April-07	**2800**	**24000**	**3100**	**13200**	43100	**<1000**	**2000**
	November-07	**620**	**1500**	260	1080	3460	19	**75**
MW-7	April-07	<5.0	<5.0	<5.0	<5.0	---	<5.0	<5.0
	November-07	<1.0	<1.0	<1.0	<1.0	---	<1.0	<5.0
DMW-1	April-07	**13**	19	<5.0	<5.0	32	<5.0	<5.0
	November-07	**300**	490	90	420	1300	**210**	**31**
RBSL	**NA**	**5**	**1000**	**700**	**10000**	**NA**	**40**	**25**

Bold concentrations represent those greater than the respective RBSL; NA = Not Applicable; NS = Not Sampled; ND = Non Detect

APPENDIX A

SCDHEC Correspondence

D H E C
PROMOTE PROTECT PROSPER
C. Earl Hunter, Commissioner
Promoting and protecting the health of the public and the environment.

AUG 07 2007

MS RENEE' THOMAS
THE PANTRY INC
PO BOX 1410
SANFORD NC 27331-1410

Re: AFVR and Assessment Report Directive
81 Food Mart (Former Pantry #585), 1502 East Greenville Street, Anderson, SC
UST Permit # 12458; CA # 30202: MWA # UMW-20948
Release reported November 10, 1992
Groundwater Assessment Report received July 23, 2007
Anderson County

Dear Ms. Thomas:

The Underground Storage Tank (UST) Program has reviewed the referenced report submitted by ATC Associates, Incorporated on your behalf. Recent assessment activities documented that free phase product exists in monitoring wells MW-1 and MW-5 additionally groundwater concentrations for petroleum constituents are above are above risk-based screening levels (RBSLs) in the down gradient monitoring well. Based on this information, the Program has determined the next necessary scope of work to be an Aggressive Fluid and Vapor Recovery (AFVR) events to recover free phase product and implementation of an additional assessment activities to define the horizontal and vertical extent of petroleum Chemicals of Concern (CoC).

Cost agreement 30202 has been approved in the amount shown on the enclosed cost agreement form for two AFVR events, installation of six shallow and one deep monitoring wells, and a groundwater sampling event of the monitoring well network. Please be aware that the February 1, 2006 SUPERB Allowable Costs sheet states, "If vertical and horizontal extent of chemicals of concern are not fully defined by this tier report, additional mobilizations may not be approved by the Department." Monitoring wells should be installed in the appropriate locations as shown on the attached map. Monitoring well approval has been provided to install six shallow and one deep pit cased monitoring wells to define the extent of CoC. A copy of the monitoring well approval is enclosed for your records. Groundwater samples form all private wells within 1,000 feet of the facility should be collected and analyzed for BTEX, naphthalene, and MtBE. Groundwater samples from all monitoring wells plus the thee most northern monitoring wells associated with the release at Ken Moorhead #117 (UST Permit #00707) should be collected approximately 30 days after the last AFVR event and analyzed for BTEX, naphthalene, MtBE, and lead in accordance with *Analytical Methodology for Groundwater and Soil Assessment Guidelines* dated August 24, 2005. A copy of this publication is available on line at http://www.scdhec.gov/eqc/admin/html/..%5C..ust% 5Cpubs% 5Canalmet.pdf. Laboratory analyses have been also provided for a soil samples with the highest screening value from above the water table for each new monitoring well.

The AFVR/ Assessment Report and invoice are due within 100 days from the date of this letter. The AFVR/Assessment Report submitted at the completion of these activities should include the following:

- A narrative portion documenting the AFVR event noting site conditions, the name of the AFVR, contractor, field personnel, date, time each AFVR event started and ended, ambient air

temperature general weather conditions during the AFVR event, and the estimated amount in gallons of the petroleum products removed as a liquid or vapor for the event. AFVR data reported must include product recovery rate, volatile air emission concentration, vacuum radius of influence measurements taken at 30-minute intervals during the event and gauging data from monitoring wells MW-1 and MW-5. All wells containing free phase product should be gauged at the beginning and end of each AFVR event. Disposal manifests for the AFVR event should be included as part of the final report.

- A narrative portion documenting current site conditions during the groundwater sampling event noting the names of field personnel, date, time, ambient air temperature, and general weather conditions during the sampling event. The report shall also contain well purging data, pH, specific conductivity, water temperature, PID readings (where applicable) and turbidity comments.
- Geological cross sections that include the new shallow and deep monitoring wells.
- Boring logs and well logs (DHEC form 1903) signed by a well driller licensed in the state of South Carolina for each new well.
- Groundwater elevations, depth to groundwater, measurable free product thickness (where applicable), total well depth and screened interval for all monitoring wells associated with the site, unless otherwise directed by the Program, shall be presented in tabular form. Groundwater laboratory analytical data for all monitoring wells for this and all previous sampling events shall be presented in tabular format.
- A CoC map based on current groundwater laboratory analytical data. The groundwater data should be adjacent to the relevant monitoring well location.
- A groundwater elevation contour map of the site based on current groundwater potentiometric data.
- Manifests for any contaminated soil and/or groundwater removed from the site for treatment and/or disposal.
- Signature and seal by a professional geologist or engineer registered in the State of South Carolina.

ATC Associates, Incorporated can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for approved costs. An interim well drilling invoice may be submitted for well installation. 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. Please be advised if the time frame exceeds 45 days between the date when groundwater samples are collected and the date the report of findings is received, the analytical data will not be considered current and ATC Associates, Incorporated will not be reimbursed for a personnel mobilization to collect the groundwater samples, laboratory analyses, or associated disposal costs.

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

Please note that you and/or your contractor are responsible for obtaining all off-site access agreements and/or encroachment permits necessary for this scope of work.

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 the Program is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be preapproved by the Program for the cost to be paid. 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. Further, SCDHEC 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.

The Department 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 COC concentrations, based on laboratory analysis, are below Risk Based Screening Levels (RBSLs), 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 or inquiries regarding this project please reference UST permit number 12458. Should you have any questions regarding this correspondence, please feel free to contact me at (803) 896-6669. I can also be reached by email at shradeaa@dhec.sc.gov. or by fax at (803) 896-6245.

Sincerely,

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

Enc: Approved Cost Agreement (ACA)
Monitoring Well Approval (MWA)
Map

cc: ATC Associates, Inc., 400 Northeast Drive, Suite Q, Columbia, SC 29203 (with enc.)
Mr. Bridges, GrandSouth Bank, PO Box 1848, Anderson, SC 29622 (without enc.)
Technical file (with enc.)

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

Monitoring Well Installation Approval Form

Approval is hereby granted to: ATC Associates, Incorporated
(on behalf of): The Pantry
Facility: 81 Food Mart (Former Pantry #585), 1502 East Greennville Street, Anderson, SC
UST Permit Number: 12458
County: Anderson

This approval is for the installation of six (6) shallow, and one (1) deep 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 Department shall be completed and submitted to the Department within 30 days after well completion or abandonment unless another schedule has been approved by the Department. 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 Department within 30 days of receipt of laboratory results unless another schedule has been approved by the Department as required by R.61-71.H.1.d.
5. If any of the information provided to the Department changes, notification to Arthur Shrader (tel: (803) 896-6669 or e-mail: shradeaa@dhec.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. Departmental 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 April 26, 2002. A copy of this approval should be on the site during well installation.

Date of Issuance: **July 24, 2007** **Approval #:** **UMW-20948**

Arthur Shrader, Hydrogeologist
Assessment Section
Division of Assessment and Corrective Action
Bureau of Land and Waste Management

APPENDIX B

AFVR Report

NUWAY INDUSTRIAL SERVICES, INC.

Corporate Office	Branch Office	Branch Office
1741 Calks Ferry Rd.	305 South Main Street	1915 Brentwood Street
Lexington, SC 29073	Mauldin, SC 29662	High Point, NC 27260

September 24, 2007

Mr. Bob Bolton
ATC and Associates
400 Northeast Drive, Suite Q
Columbia, SC 29203

RE: Enhanced Fluid Recovery (EFR)
Pantry #585
1502 East Greenville Street
Anderson, SC
J2007-392

Dear Mr. Bolton:

On September 13, 2007 NuWay Industrial Services Inc. (NuWay) performed an Enhanced Fluid Recovery (EFR) event at the above referenced location. The EFR was performed for 8 hours on 2 monitoring wells, well 1 from 7:30am to 1:00pm and well 5 from 1:00pm to 3:30pm.

Prior to the event and upon completion of the event the product and water levels were checked in the wells. Approximately 790 gallons of liquids were removed during the event. No amount of free product was detected in the truck upon completion of the event.

Enclosed is the field data sheet along with the calculation spreadsheet for the event. A copy of the disposal manifest is also enclosed.

NuWay appreciates the opportunity to assist you with this project. If you have any questions or need further information please contact me at 803-957-9175.

Sincerely,
NuWay Industrial Services, Inc.

Christopher M. Lock
Christopher M. Lock
Project Manager

J 2007-392

Client:ATC Charlotte **Facility Name: Pantry # 585** **Technician: Chris Driver**

Facility Address: 1502 East Greenville St. Anderson, SC **Date: 13 Sep 07**

Extraction Well Head Vacuum (in.Hg)

TIME:	INLT	MW-1	MW-5	MW-	MW-	HUM	PPM	FLOW	TEMP
7:30am	4	15				89.6	403	1600	90.2
8:00am	4	14				94.7	391	1600	86.7
8:30am	4	15				97.3	410	1500	87.9
9:00am	4	13				88.4	451	1600	90.4
9:30am	4	14				96.8	463	1600	90.2
10:00am	4	15				91.0	336	1500	91.6
10:30am	4	15				87.5	265	1600	85.2
11:00am	4	15				87.6	383	1600	89.0
11:30am	4	14				78.0	338	1600	98.5
12:00pm	4	15				98.8	267	1650	87.8
12:30pm	4	15				81.0	406	1600	98.2
1:00pm	4	14				78.6	391	1500	101.2
1:30pm	4		12			68.6	210	1100	119.3
2:00pm	4		10			58.5	260	1000	122.3
2:30pm	4		12			52.1	239	1000	128.3
3:00pm	4		13			48.3	341	1000	129.6
3:30pm	4		12			41.8	286	1100	139.4

Well Gauging Data:			Before EFR Event			After EFR Event			
Well No.	Diam.	TD (ft)	DTP(ft)	DTW (ft)	SPH (ft)	DTP (ft)	DTW (ft)	SPH (ft)	Corr. DTW Change (ft)
MW-1			13.02	13.54		0	14.94		
MW-5			12.99	13.32		0	14.26		

Comments:

NIS FIELD DATA SHEET

Client: ATC Columbia	Site: 1502 East Greenville Street, Anderson, SC Pantry 585	Date: 13 Sep 07	Event #

Extraction Well(s)	Time hh:mm	Extraction Well-head Vacuum (in Hg)																Vacuum Truck Exhaust			
		Inlet	MW-1	MW-5	0	0	0	0	0	0	0	0	0	0	0	0		Concent-ration PPM	Flow Rate CFM	Removal Rate LBS/HR	Interval Removal LBS
Technician: Chris Driver		Vacuum Truck # 117																Tank Capacity: 2,600		Stack Diameter: 4"	
	7:30am	4	15	0	0	0	0	0	0	0	0	0	0	0	0	0		403	1392	11.5	5.7
	8:00am	4	14	0	0	0	0	0	0	0	0	0	0	0	0	0	>	391	1392	11.1	5.6
	8:30am	4	15	0	0	0	0	0	0	0	0	0	0	0	0	0	>	410	1305	10.9	5.5
	9:00am	4	13	0	0	0	0	0	0	0	0	0	0	0	0	0	>	451	1392	12.8	12.8
	9:30am	4	14	0	0	0	0	0	0	0	0	0	0	0	0	0	>	463	1392	13.2	13.2
	10:00am	4	15	0	0	0	0	0	0	0	0	0	0	0	0	0	>	336	1305	9.0	9.0
	10:30am	4	15	0	0	0	0	0	0	0	0	0	0	0	0	0	>	265	1392	7.5	3.8
	11:00am	4	15	0	0	0	0	0	0	0	0	0	0	0	0	0	>	383	1392	10.9	5.4
	11:30am	4	14	0	0	0	0	0	0	0	0	0	0	0	0	0	>	338	1392	9.6	4.8
	12:00pm	4	15	0	0	0	0	0	0	0	0	0	0	0	0	0	>	367	1436	10.8	5.4
	12:30pm	4	15	0	0	0	0	0	0	0	0	0	0	0	0	0	>	406	1392	11.5	5.8
	1:00pm	4	14	0	0	0	0	0	0	0	0	0	0	0	0	0	>	391	1305	10.4	5.2
	1:30pm	4	0	12	0	0	0	0	0	0	0	0	0	0	0	0	>	210	957	4.1	2.1
	2:00pm	4	0	10	0	0	0	0	0	0	0	0	0	0	0	0	>	260	870	4.6	2.3
	2:30pm	4	0	12	0	0	0	0	0	0	0	0	0	0	0	0	>	239	870	4.2	2.1
	3:00pm	4	0	13	0	0	0	0	0	0	0	0	0	0	0	0	>	406	1392	11.5	5.8
	3:30pm	4	0	12	0	0	0	0	0	0	0	0	0	0	0	0	>	286	957	5.6	2.8

Extraction Well	Stinger Depth	Breather Port
MW-1		
MW-5		

Hydrocarbons Removed (vapor):	97	Pounds
Hydrocarbons Removed (liquids):	0	Gallons
Total Hydrocarbons Removed:	13	Equiv. Gal
Molecular Weight Utilized:	130	g/mole
Disposal Facility: Onsite*		
Total Liquids Removed:	790	Gallons

Comments:

790 gals water

0 gals product

790 gals total

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone	4. Waste Tracking Number 09137

GENERATOR

5. Generator's Name and Mailing Address
Pantry 585
1502 East Greenville St
Anderson, SC

Generator's Site Address (if different than mailing address)
ATC Columbia

Generator's Phone:

6. Transporter 1 Company Name: NuWay Industrial Service 803-957-9175
U.S. EPA ID Number: SCD987598331

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
NuWay Industrial Service
1741 Calks Ferry Road
Lexington, SC 29073

U.S. EPA ID Number: SCR000762468

Facility's Phone: 803-957-9175

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-HAZARDOUS NON-REGULATED MATERIAL Oily water	001	TT	790	G.	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

In Case of Emergency Call: 803-957-9175 NIS Job #2007-392

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: X John Moneghan
Signature: X
Month Day Year: X 09 13 07

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Chris Driver
Signature:
Month Day Year: 09 13 07

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: James Lovette
Signature:
Month Day Year: 9 13 07

NUWAY INDUSTRIAL SERVICES, INC.

Corporate Office
1741 Calks Ferry Rd.
Lexington, SC 29073

Branch Office
305 South Main Street
Mauldin, SC 29662

Branch Office
1915 Brentwood Street
High Point, NC 27260

October 12, 2007

Mr. Bob Bolton
ATC and Associates
400 Northeast Drive, Suite Q
Columbia, SC 29203

RE: Enhanced Fluid Recovery (EFR)
Pantry #585
1502 East Greenville Street
Anderson, SC
J2007-392

Dear Mr. Bolton:

On October 11, 2007 NuWay Industrial Services Inc. (NuWay) performed an Enhanced Fluid Recovery (EFR) event at the above referenced location. The EFR was performed for 8 hours on 5 monitoring wells, MW-5 and MW-12 from 6:00am to 10:00am and wells MW-8, MW-9, and MW-1 from 10:00am to 2:00pm.

Prior to the event and upon completion of the event the product and water levels were checked in the wells. Approximately 1454 gallons of liquids were removed during the event. No amount of free product was detected in the truck upon completion of the event.

Enclosed is the field data sheet along with the calculation spreadsheet for the event. A copy of the disposal manifest is also enclosed.

NuWay appreciates the opportunity to assist you with this project. If you have any questions or need further information please contact me at 803-957-9175.

Sincerely,
NuWay Industrial Services, Inc.

Christopher M. Lock
Christopher M. Lock
Project Manager

J 2007-392

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone	4. Waste Tracking Number 26965

GENERATOR

5. Generator's Name and Mailing Address
Pantry 585
1502 East Greenville St
Anderson, SC

Generator's Site Address (if different than mailing address)
ATC Columbia

Generator's Phone:

6. Transporter 1 Company Name
NuWay Industrial Service 803-957-9175

U.S. EPA ID Number
SCD987598331

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
NuWay Industrial Service
1741 Calks Ferry Road
Lexington, SC 29073

U.S. EPA ID Number
SCR000762468

Facility's Phone: 803-957-9175

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-HAZARDOUS NON-REGULATED MATERIAL Oily water	001	TT	1,454	G.	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

In Case of Emergency Call: 803-957-9175 NIS Job #2007-392

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: JW Hall for ATC
Signature: JW Hall
Month Day Year: 10 11 07

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Chris Oliver
Signature:
Month Day Year: 10 11 07

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: James Lowe
Signature:
Month Day Year: 10 11 07

169-BLC-O 6 10498 (Rev. 8/06)

DESIGNATED FACILITY TO GENERATOR

NIS FIELD DATA SHEET

Client: ATC Columbia	Site: 1502 East Greenville Street, Anderson, SC Pantry 585	Date: 11 Oct 07	Event #

Extraction Well(s)	Time hh:mm	Extraction Well-head Vacuum (in Hg)																Vacuum Truck Exhaust			
		Inlet	MW-5	MW-12	MW-8	MW-9	MW-1	0	0	0	0	0	0	0	0	0		Concent-ration PPM	Flow Rate CFM	Removal Rate LBS/HR	Interval Removal LBS
Technician: Chris Driver		Vacuum Truck # 117																Tank Capacity: 2,600		Stack Diameter: 4"	
	6:00am	4	14	12	0	0	0	0	0	0	0	0	0	0	0	0		717	1305	19.1	9.6
	6:30am	4	13	13	0	0	0	0	0	0	0	0	0	0	0	0	>	743	870	13.2	6.6
	7:00am	4	14	13	0	0	0	0	0	0	0	0	0	0	0	0	>	727	1305	19.4	9.7
	7:30am	4	15	14	0	0	0	0	0	0	0	0	0	0	0	0	>	768	1305	20.5	20.5
	8:00am	4	13	12	0	0	0	0	0	0	0	0	0	0	0	0	>	802	914	15.0	15.0
	8:30am	4	14	14	0	0	0	0	0	0	0	0	0	0	0	0	>	780	1305	20.8	20.8
	9:00am	4	14	13	0	0	0	0	0	0	0	0	0	0	0	0	>	741	1305	19.7	9.9
	9:30am	4	14	13	0	0	0	0	0	0	0	0	0	0	0	0	>	724	1305	19.3	9.6
	10:00am	4	15	14	0	0	0	0	0	0	0	0	0	0	0	0	>	690	1305	18.4	9.2
	10:30am	4	0	0	12	13	12	0	0	0	0	0	0	0	0	0	>	895	870	15.9	8.0
	11:00am	4	0	0	12	13	12	0	0	0	0	0	0	0	0	0	>	907	1044	19.3	9.7
	11:30am	4	0	0	13	14	13	0	0	0	0	0	0	0	0	0	>	862	1218	21.4	10.7
	12:00pm	4	0	0	13	14	13	0	0	0	0	0	0	0	0	0	>	803	1262	20.7	10.3
	12:30pm	4	0	0	12	14	13	0	0	0	0	0	0	0	0	0	>	821	1218	20.4	10.2
	1:00pm	4	0	0	13	13	12	0	0	0	0	0	0	0	0	0	>	799	1262	20.6	10.3
	1:30pm	4	0	0	12	13	12	0	0	0	0	0	0	0	0	0	>	907	1044	19.3	9.7
	2:00pm	4	0	0	13	12	13	0	0	0	0	0	0	0	0	0	>	1027	1218	25.5	12.8

Extraction Well	Stinger Depth	Breather Port

Hydrocarbons Removed (vapor):	192	Pounds
Hydrocarbons Removed (liquids):	0	Gallons
Total Hydrocarbons Removed:	25	Equiv. Gal
Molecular Weight Utilized:	130	g/mole
Disposal Facility: Onsite*		
Total Liquids Removed:	1,454	Gallons

Comments:

1454 gallons of liquids

0 free product in truck

1454 total gallons

Client:ATC Columbia **Facility Name: Pantry # 585** **Technician: Chris Driver**

Facility Address: 1502 East Greenville St. Anderson, SC **Date: 11 Oct 07**

Extraction Well Head Vacuum (in.Hg)

TIME:	IN LT	MW-5	MW-12	MW-8	MW-9	MW-1	HUM	PPM	FLOW	TEMP
6:00am	4	14	12				53.1	717	1500	83.6
6:30am	4	13	13				62.5	743	1000	84.8
7:00am	4	14	13				58.2	727	1500	89.1
7:30am	4	15	14				48.8	768	1500	93.3
8:00am	4	13	12				62.3	802	1050	97.3
8:30am	4	14	14				64.1	780	1500	98.3
9:00am	4	14	13				60.3	741	1500	99.1
9:30am	4	14	13				49.9	724	1500	101.1
10:00am	4	15	14				37.9	690	1500	103.3
10:30am	4			12	13	12	86.6	895	1000	95.9
11:00am	4			12	13	12	66.6	907	1200	80.5
11:30am	4			13	14	13	62.5	862	1400	94.4
12:00pm	4			13	14	13	60.1	803	1450	96.9
12:30pm	4			12	14	13	50.6	821	1400	102.0
1:00pm	4			13	13	12	65.8	799	1450	102.5
1:30pm	4			12	13	13	81.6	1094	1450	84.6
2:00pm	4			13	12	13	83.5	1027	1400	80.1

Well Gauging Data:			**Before EFR Event**			**After EFR Event**			
Well No.	Diam.	TD (ft)	DTP(ft)	DTW (ft)	SPH (ft)	DTP(ft)	DTW (ft)	SPH(ft)	Corr. DTW Change (ft)
MW-1			13.35	13.51		0	15.69		
MW-8			11.50	11.53		0	13.52		
MW-9			0	13.16		0	13.46		
MW-5			13.18	13.25		0	13.61		
MW-12			0	11.91		0	12.73		

Comments:

0 free product in truck

APPENDIX C

Monitor Well Construction Logs

MONITORING WELL CONSTRUCTION / SOIL BORING LOG

PROJECT NAME:	Former Pantry #585	BORING I.D.:	MW-8
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	10/1/2007
PROJECT LOCATION:	1502 East Greenville Street Anderson, South Carolina	DRILLING CONTR.:	Mike McConahey
		DRILL METHOD:	Hollow Stem Auger
		BORING DIAMETER:	8.5"
CLIENT:	SCDHEC	SAMPLING METHOD/INTERVAL:	Grab
LOGGED BY:	Jesse Keeffe	REMARKS:	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					0.5	Asphalt Cover
					1.0	Reddish brown clayey silt, dry, mild petroleum odors
					1.5	
					2.0	
					2.5	
					3.0	
					3.5	
					4.0	
					4.5	
3'-5'			880		5.0	Tan fine to medium sand with trace of silt, dry,
					5.5	mild petroleum odors
					6.0	
					6.5	
					7.0	
					7.5	
					8.0	
					8.5	
					9.0	
					9.5	
8'-10'			91		10.0	Gray and tan silt with fine to medium sand and mica,
					10.5	moist, strong petroleum odors
					11.0	
					11.5	
					12.0	**WATER LEVEL: 12.10 on 11/15/07**
					12.5	
					13.0	
					13.5	
					14.0	
					14.5	
13'-15'			2134		15.0	Gray and tan silt with fine to medium sand and mica,
					15.5	moist, strong petroleum odors
					16.0	
					16.5	
					17.0	

DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

- * -Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, South Carolina 29203

D H E C

PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: THE PANTRY, INC. (last) (first)
Address: P.O. BOX 1410
City: SANFORD State: NC Zip: 27331
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** ANDERSON
Name: 81 FOOD MART (FMR PANTRY #585)
Street Address: 1502 E. GREENVILLE ST.
City: ANDERSON Zip: 29621
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ASPHALT/STONE	1.0	1.0
BROWN/ORANGE/RED SANDY		
SILT	3.0	4.0
GRAY/BROWN SANDY SILT	3.0	7.0
GRAY/WHITE SANDY SILTY		
CLAY	5.0	12.0
RED/ORANGE SANDY SILT	5.0	17.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-8 BENTONITE SEAL FROM 2.5 TO 5.0 FT.

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

7. PERMIT NUMBER:

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 10/01/07
17.0 ft. Date Completed: 10/01/07

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 7.0 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 10.0 FEET
Set Between: 7.0 ft. and 17.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 13.0' ft. below land surface after 24 hours

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 5.0 ft. to 17.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 2.5 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

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

19. WELL DRILLER: MIKE McCONAHEY **CERT. NO.:** 01276
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A B C D (circle one) ☑ ☐ ☐ ☐
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

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

Signed: Mike McConahey Date: 10/30/07
Well Driller

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

COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

MONITORING WELL CONSTRUCTION / SOIL BORING LOG

PROJECT NAME:	Former Pantry #585	BORING I.D.:	MW-9
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	10/1/2007
PROJECT LOCATION:	1502 East Greenville Street Anderson, South Carolina	DRILLING CONTR.:	Mike McConahey
		DRILL METHOD:	Hollow Stem Auger
		BORING DIAMETER:	8.5"
CLIENT:	SCDHEC	SAMPLING METHOD/INTERVAL:	Grab
LOGGED BY:	Jesse Keeffe	REMARKS:	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					0.5	Asphalt Cover
					1.0	Tan fine to medium sand with trace of silt, dry,
					1.5	strong petroleum odors
					2.0	
					2.5	
					3.0	
					3.5	
					4.0	
					4.5	
3'-5'			984		5.0	Tan fine to medium sand with trace of silt, dry,
					5.5	strong petroleum odors
					6.0	
					6.5	
					7.0	
					7.5	
					8.0	
					8.5	
					9.0	
					9.5	
8'-10'			1978		10.0	Gray and tan silt with fine to medium sand and mica,
					10.5	moist, strong petroleum odors
					11.0	
					11.5	
					12.0	
					12.5	
					13.0	**WATER LEVEL: 13.29 on 11/15/07**
					13.5	
					14.0	
					14.5	
13'-15'			1901		15.0	Gray and tan silt with fine to medium sand and mica,
					15.5	moist, strong petroleum odors
					16.0	
					16.5	
					17.0	

DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

- * -Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, South Carolina 29203

D H E C

PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: THE PANTRY, INC.
(last) (first)
Address: P.O. BOX 1410
City: SANFORD State: NC Zip: 27331
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** ANDERSON
Name: 81 FOOD MART (FMR PANTRY #585)
Street Address: 1502 E. GREENVILLE ST.
City: ANDERSON Zip: 29621
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ASPHALT/STONE	1.0	1.0
BROWN/ORANGE/RED SANDY		
SILT	3.0	4.0
GRAY/BROWN SANDY SILT	3.0	7.0
GRAY/WHITE SANDY SILTY		
CLAY	5.0	12.0
RED/ORANGE SANDY SILT	5.0	17.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-9 BENTONITE SEAL FROM 2.5 TO 5.0 FT.

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

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 10/01/07
17.0 ft. Date Completed: 10/01/07

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 7.0 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 10.0 FEET
Set Between: 7.0 ft. and 17.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 13.0' ft. below land surface after 24 hours

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 5.0 ft. to 17.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 2.5 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

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

19. WELL DRILLER: MIKE McCONAHEY **CERT. NO.:** 01276
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A B C D (circle one) ☑ ☐ ☐ ☐
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

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

Signed: Mike McConahey Date: 10/30/07
Well Driller

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

COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

MONITORING WELL CONSTRUCTION / SOIL BORING LOG

PROJECT NAME:	Former Pantry #585	BORING I.D.:	MW-10
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	10/1/2007
PROJECT LOCATION:	1502 East Greenville Street Anderson, South Carolina	DRILLING CONTR.:	Mike McConahey
		DRILL METHOD:	Hollow Stem Auger
		BORING DIAMETER:	8.5"
CLIENT:	SCDHEC	SAMPLING METHOD/INTERVAL:	Grab
LOGGED BY:	Jesse Keeffe	REMARKS:	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					0.5	Asphalt Cover
					1.0	Red silt, strong petroleum odors, dry
					1.5	
					2.0	
					2.5	
					3.0	
					3.5	
					4.0	
					4.5	
3'-5'			1691		5.0	Gray and tan clayey fine to medium sand and silt,
					5.5	strong petroleum odors
					6.0	
					6.5	
					7.0	
					7.5	
					8.0	
					8.5	
					9.0	
					9.5	
8'-10'			944		10.0	Gray silt, moist, strong petroleum odors
					10.5	
					11.0	
					11.5	
					12.0	
					12.5	
					13.0	
					13.5	
					14.0	
					14.5	**WATER LEVEL: 14.68 on 11/15/07**
13'-15'			1309		15.0	Gray silt, moist, strong petroleum odors
					15.5	
					16.0	
					16.5	
					17.0	

DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

- * -Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, South Carolina 29203

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: THE PANTRY, INC. (last) (first)
Address: P.O. BOX 1410
City: SANFORD State: NC Zip: 27331
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** ANDERSON
Name: 81 FOOD MART (FMR PANTRY #585)
Street Address: 1502 E. GREENVILLE ST.
City: ANDERSON Zip: 29621
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ASPHALT/STONE	1.0	1.0
BROWN/ORANGE/RED SANDY		
SILT	3.0	4.0
GRAY/BROWN SANDY SILT	3.0	7.0
GRAY/WHITE SANDY SILTY		
CLAY	5.0	12.0
RED/ORANGE SANDY SILT	5.0	17.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-10 BENTONITE SEAL FROM 2.5 TO 5.0 FT.

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

7. PERMIT NUMBER:

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 10/01/07
17.0 ft. Date Completed: 10/01/07

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 7.0 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 10.0 FEET
Set Between: 7.0 ft. and 17.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 13.0' ft. below land surface after 24 hours

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 5.0 ft. to 17.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 2.5 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

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

19. WELL DRILLER: MIKE McCONAHEY **CERT. NO.:** 01276
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☑ B ☐ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

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

Signed: Mike McConahey Date: 10/30/07
Well Driller

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

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)**

MONITORING WELL CONSTRUCTION / SOIL BORING LOG

PROJECT NAME:	Former Pantry #585	BORING I.D.:	MW-11
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	10/1/2007
PROJECT LOCATION:	1502 East Greenville Street Anderson, South Carolina	DRILLING CONTR.:	Mike McConahey
		DRILL METHOD:	Hollow Stem Auger
		BORING DIAMETER:	8.5"
CLIENT:	SCDHEC	SAMPLING METHOD/INTERVAL:	Grab
LOGGED BY:	Jesse Keeffe	REMARKS:	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					0.5	Asphalt Cover
					1.0	Reddish brown clayey fine to medium sand, dry,
					1.5	strong petroleum odors
					2.0	
					2.5	
					3.0	
					3.5	
					4.0	
					4.5	
3'-5'			965		5.0	Tan fine to medium sandy clay/silt,
					5.5	strong petroleum odors
					6.0	
					6.5	
					7.0	
					7.5	
					8.0	
					8.5	
					9.0	
					9.5	
8'-10'			743		10.0	Tan fine to medium sandy clay/silt,
					10.5	strong petroleum odors
					11.0	
					11.5	
					12.0	
					12.5	
					13.0	
					13.5	**WATER LEVEL: 13.91 on 11/15/07**
					14.0	
					14.5	
13'-15'			1684		15.0	Tan silt, moist, strong petroleum odors
					15.5	
					16.0	
					16.5	
					17.0	

DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

- * -Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, South Carolina 29203

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: THE PANTRY, INC. (last) (first)
Address: P.O. BOX 1410
City: SANFORD State: NC Zip: 27331
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** ANDERSON
Name: 81 FOOD MART (FMR PANTRY #585)
Street Address: 1502 E. GREENVILLE ST.
City: ANDERSON Zip: 29621
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ASPHALT/STONE	1.0	1.0
BROWN/ORANGE/RED SANDY		
SILT	3.0	4.0
GRAY/BROWN SANDY SILT	3.0	7.0
GRAY/WHITE SANDY SILTY		
CLAY	5.0	12.0
RED/ORANGE SANDY SILT	5.0	17.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-11 BENTONITE SEAL FROM 2.5 TO 5.0 FT.

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

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 10/01/07
17.0 ft. Date Completed: 10/01/07

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 7.0 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 10.0 FEET
Set Between: 7.0 ft. and 17.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 13.0' ft. below land surface after 24 hours

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 5.0 ft. to 17.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 2.5 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

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

19. WELL DRILLER: MIKE McCONAHEY **CERT. NO.:** 01276
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A B C D (circle one) ☑ ☐ ☐ ☐
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

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

Signed: Mike McConahey Date: 10/30/07
Well Driller

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

COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

MONITORING WELL CONSTRUCTION / SOIL BORING LOG

PROJECT NAME:	Former Pantry #585	BORING I.D.:	MW-12
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	10/1/2007
PROJECT LOCATION:	1502 East Greenville Street Anderson, South Carolina	DRILLING CONTR.:	Mike McConahey
		DRILL METHOD:	Hollow Stem Auger
		BORING DIAMETER:	8.5"
CLIENT:	SCDHEC	SAMPLING METHOD/INTERVAL:	Grab
LOGGED BY:	Jesse Keeffe	REMARKS:	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					0.5	Grass cover
					1.0	Reddish brown silt with fine to medium sand and mica, dry,
					1.5	strong petroleum odors
					2.0	
					2.5	
					3.0	
					3.5	
					4.0	
					4.5	
3'-5'			19.7		5.0	Tan fine to medium sandy silt with some clay, dry,
					5.5	strong petroleum odors
					6.0	
					6.5	
					7.0	
					7.5	
					8.0	
					8.5	
					9.0	
					9.5	
8'-10'			1921		10.0	Tan fine to medium sandy silt with some clay, dry,
					10.5	strong petroleum odors
					11.0	
					11.5	
					12.0	**WATER LEVEL: 12.26 on 11/15/07**
					12.5	
					13.0	
					13.5	
					14.0	
					14.5	
13'-15'			39.9		15.0	Tan silt with some soft clay, moist, strong petroleum odors
					15.5	
					16.0	
					16.5	
					17.0	

DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

- * -Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, South Carolina 29203

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: THE PANTRY, INC. (last) (first)
Address: P.O. BOX 1410
City: SANFORD State: NC Zip: 27331
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** ANDERSON
Name: 81 FOOD MART (FMR PANTRY #585)
Street Address: 1502 E. GREENVILLE ST.
City: ANDERSON Zip: 29621
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
ASPHALT/STONE	1.0	1.0
BROWN/ORANGE/RED SANDY		
SILT	3.0	4.0
GRAY/BROWN SANDY SILT	3.0	7.0
GRAY/WHITE SANDY SILTY		
CLAY	5.0	12.0
RED/ORANGE SANDY SILT	5.0	17.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-12 BENTONITE SEAL FROM 2.5 TO 5.0 FT.

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

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 10/01/07
17.0 ft. Date Completed: 10/01/07

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 7.0 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 10.0 FEET
Set Between: 7.0 ft. and 17.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 13.0' ft. below land surface after 24 hours

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 5.0 ft. to 17.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 2.5 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

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

19. WELL DRILLER: MIKE McCONAHEY **CERT. NO.:** 01276
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A B C D (circle one) ☑ ☐ ☐ ☐
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

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

Signed: Mike McConahey Date: 10/30/07
Well Driller

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

COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

MONITORING WELL CONSTRUCTION / SOIL BORING LOG

PROJECT NAME:	Former Pantry #585	BORING I.D.:	MW-13
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	10/1/2007
PROJECT LOCATION:	1502 East Greenville Street Anderson, South Carolina	DRILLING CONTR.:	Mike McConahey
		DRILL METHOD:	Hollow Stem Auger
		BORING DIAMETER:	8.5"
CLIENT:	SCDHEC	SAMPLING METHOD/INTERVAL:	Grab
LOGGED BY:	Jesse Keeffe	REMARKS:	

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					0.5	Grass cover
					1.0	Reddish brown silt with fine to medium sandy clay, dry,
					1.5	no petroleum odors
			0		2.0	
					2.5	
					3.0	
					3.5	
					4.0	
					4.5	
3'-5'			0		5.0	Reddish brown clay/silt with some fine to medium sand,
					5.5	wet, no petroleum odors
					6.0	
					6.5	
					7.0	
					7.5	
					8.0	Tan soft silt/clay with trace of fine to medium sand,
					8.5	wet, no petroleum odors
					9.0	
					9.5	
8'-10'			0.1		10.0	
					10.5	**WATER LEVEL: 10.57 on 11/15/07**
					11.0	
					11.5	
					12.0	
					12.5	
					13.0	
					13.5	

DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

- " -Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

ATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, South Carolina 29203

D H E C

PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: THE PANTRY, INC. (last) (first)
Address: P.O. BOX 1410
City: SANFORD State: NC Zip: 27331
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** ANDERSON
Name: 81 FOOD MART (FMR PANTRY #585)
Street Address: 1502 E. GREENVILLE ST.
City: ANDERSON Zip: 29621
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
GRASS/TOPSOIL	1.0	1.0
BROWN/ORANGE/RED SAND SILT	3.0	4.0
GRAY/BROWN SANDY SILT	3.0	7.0
GRAY/WHITE SANDY SILTY CLAY	5.0	12.0
RED/ORANGE SANDY SILT	1.5	13.5
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW-13 BENTONITE SEAL FROM 1.0 TO 2.5 FT.

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

7. PERMIT NUMBER:

8. USE: ☐ Residential ☐ Public Supply ☐ Process ☐ Irrigation ☐ Air Conditioning ☐ Emergency ☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 10/01/07
13.5 ft. Date Completed: 10/01/07

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☐ Galvanized ☐ Steel ☐ Other
2.0 in. to 3.5 ft. depth
_____ in. to _____ ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 10.0 FEET
Set Between: 3.5 ft. and 13.5 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 9.0' ft. below land surface after 24 hours

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 2.5 ft. to 13.5 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 1.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

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

19. WELL DRILLER: MIKE McCONAHEY **CERT. NO.:** 01276
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A B C D (circle one) ☑ ☐ ☐ ☐
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

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

Signed: Mike McConahey Date: 10/30/07
Well Driller

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

COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

MONITORING WELL CONSTRUCTION / SOIL BORING LOG

PROJECT NAME:	Former Pantry #585	BORING I.D.:	DMW-2
PROJECT NO.:	14.25384.0585	DATE(S) DRILLED:	11/12-14/07
PROJECT LOCATION:	1502 East Greenville Street Anderson, South Carolina	DRILLING CONTR.:	Jason Mantack
		DRILL METHOD:	Mud Rotary
		BORING DIAMETER:	8.5"
CLIENT:	SCDHEC	SAMPLING METHOD/INTERVAL:	Grab
LOGGED BY:	Jesse Keeffe	REMARKS:	6" Outer Casing Set at 72'

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					0.5	Grass Cover
					1.0	
					1.5	
					2.0	
					2.5	
					3.0	Red Silty Clay with Trace of Micaceous Fines, Stiff,
					3.5	Strong Petroleum Odor
					4.0	
					4.5	
3'-5'			---		5.0	Red Silty Clay with Trace of Micaceous Fines, Stiff,
					5.5	Strong Petroleum Odor
					6.0	
					6.5	
					7.0	
					7.5	
					8.0	Red Silty Clay with Trace of Micaceous Fines, Stiff,
					8.5	Strong Petroleum Odor
					9.0	
					9.5	
8'-10'			---		10.0	Red Silty Clay with Trace of Micaceous Fines, Stiff,
					10.5	Strong Petroleum Odor
					11.0	
					11.5	
					12.0	
					12.5	
					13.0	
				▽	13.5	**WATER LEVEL: 13.76 on 11/15/07**
					14.0	
					14.5	
13'-15'			---		15.0	

DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

- * -Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

VATC ASSOCIATES INC.
400 Northeast Drive, Unit Q
Columbia, South Carolina 29203

DESCRIPTIVE LOG (page 2 of 5)				PROJECT NO.: 14.25384.0585		BORING I.D.: DMW-2
SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					15.5	
					16.0	
					16.5	
					17.0	
					17.5	
					18.0	
					18.5	
					19.0	
					19.5	
18'-20'			1641		20.0	Gray Silt with Trace of Clay and Micaceous Fines,
					20.5	Moderate Petroleum Odors, Dry
					21.0	
					21.5	
					22.0	
					22.5	
					23.0	
					23.5	
					24.0	
					24.5	
23'-25'			772		25.0	Gray Silt with Trace of Clay and Micaceous Fines,
					25.5	Moderate Petroleum Odors, Dry
					26.0	
					26.5	
					27.0	
					27.5	
					28.0	
					28.5	
					29.0	
					29.5	
28'-30'			20.2		30.0	Tan Fine Silty Sand, Dry, No Petroleum Odors
					30.5	
					31.0	

DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

* - Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

VATC ASSOCIATES INC.
400 Northeast Drive, Suite Q
Columbia, South Carolina 29203

DESCRIPTIVE LOG (page 3 of 5)				PROJECT NO.: 14.25384.0585		BORING I.D.: DMW-2
SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					31.5	
					32.0	
					32.5	
					33.0	
					33.5	
					34.0	
					34.5	
33'-35'			---		35.0	Tan Fine Fine to Medium Sand, Dry, No Petroleum Odors
					35.5	
					36.0	
					36.5	
					37.0	
					37.5	
					38.0	
					38.5	
					39.0	
					39.5	
38'-40'			---		40.0	Brown Fine to Medium Sand with Micaceous Fines,
					40.5	Dry, No Petroleum Odors
					41.0	
					41.5	
					42.0	
					42.5	
					43.0	
					43.5	
					44.0	
					44.5	
43'-45'			---		45.0	Brown and Tan Fine to Course Sand (Saprolite/Partially
					45.5	Weathered Rock) with Some Silt, Dry, No Petroleum Odors
					46.0	
					46.5	
					47.0	
					47.5	
					48.0	
					48.5	
					49.0	
					49.5	
48'-50'			---		50.0	Brown Fine Sand with Silt, Saturated
					50.5	
					51.0	
					51.5	
					52.0	

DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

* - Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

VATC ASSOCIATES INC.
400 Northeast Drive, Suite Q
Columbia, South Carolina 29203

DESCRIPTIVE LOG (page 4 of 5)	PROJECT NO.: 14.25384.0585	BORING I.D.: DMW-2

SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF MATERIAL
					52.5	
					53.0	
					53.5	
					54.0	
					54.5	
53'-55'			---		55.0	Brown Fine Sand with Silt, Saturated
					55.5	
					56.0	
					56.5	
					57.0	
					57.5	
					58.0	
					58.5	
					59.0	
					59.5	
58'-60'			---		60.0	Gray Fine to Medium Sand and Partially Weathered
					60.5	Rock (Gneiss), Saturated, No Petroleum Odors
					61.0	
					61.5	
					62.0	
					62.5	
					63.0	
					63.5	
					64.0	
					64.5	
63'-65'			---		65.0	Gray Fine to Medium Sand and Partially Weathered
					65.5	Rock (Gneiss), Saturated, No Petroleum Odors
					66.0	
					66.5	
					67.0	
					67.5	
					68.0	
					68.5	
					69.0	
					69.5	
68'-70'			---		70.0	Gray Fine to Medium Sand and Partially Weathered
					70.5	Rock (Gneiss), Saturated, No Petroleum Odors
					71.0	
					71.5	
					72.0	**6" Outer casing set at 72 feet**
					72.5	
					73.0	

DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

* - Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

VATC ASSOCIATES INC.
400 Northeast Drive, Suite Q
Columbia, South Carolina 29203

DESCRIPTIVE LOG (page 5 of 5)				PROJECT NO.: 14.25384.0585			BORING I.D.: DMW-2
SAMPLE INTERVAL	SAMPLE REC. (IN.)	BLOWS PER 6"	PID/FID (ppm)	GRAPHIC COLUMN		DEPTH (FT)	DESCRIPTION OF MATERIAL
						73.5	
						74.0	
						74.5	
73'-75'			---			75.0	Gray Fine to Medium Sand and Partially Weathered
						75.5	Rock (Gneiss), Saturated, No Petroleum Odors
						76.0	
						76.5	
						77.0	
						77.5	
						78.0	
						78.5	
						79.0	
						79.5	
						80.0	

Termination of Boring at 80.0 Feet

DRILLING METHODS
AIR - AIR ROTARY
CFA - CONTINUOUS FLIGHT AUGER
DC - DRIVEN CASING
HA - HAND AUGER
HSA - HOLLOW STEM AUGER
MD - MUD DRILLING
RC - ROCK CORING
WR - WATER ROTARY

* - Sample collected for analysis

SAMPLING METHODS
SS - SPLIT SPOON
ST - SHELBY TUBE

GRAPHIC COLUMN
GROUT
BENTONITE
SAND
SCREEN

VATC ASSOCIATES INC.
400 Northeast Drive, Suite Q
Columbia, South Carolina 29203

D H E C
PROMOTE PROTECT PROSPER

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

1. WELL OWNER INFORMATION:
Name: THE PANTRY, INC. (last) (first)
Address: P.O. BOX
City: SANFORD State: NC Zip: 27331
Telephone: Work: Home:

2. LOCATION OF WELL: SC **COUNTY:** ANDERSON
Name: 81 FOOD MART (FMR PANTRY #585)
Street Address: 1502 E. GREENVILLE STREET
City: ANDERSON Zip: 29621
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: **PUBLIC SYSTEM NUMBER:**

4. ABANDONMENT: ☐ Yes ☑ No
Grouted Depth: from _____ ft. to _____ ft.

Formation Description	*Thickness of Stratum	Depth to Bottom of Stratum
BROWN CLAYEY SAND	30.0	30.0
BROWN SANDY CLAY	20.0	50.0
BROWN WEATHERED ROCK	18.0	68.0
BROWN PARTIALLY WEATHERED		
ROCK	12.0	80.0
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
DMW-2 BENTONITE SEAL FROM 69.0 TO 73.0 FT. 6 1/4 INCH GALVANIZED GROUTED FROM 0.0 TO 72.0 FT.

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

7. PERMIT NUMBER:

8. USE:
☐ Residential ☐ Public Supply ☐ Process
☐ Irrigation ☐ Air Conditioning ☐ Emergency
☐ Test Well ☑ Monitor Well ☐ Replacement

9. WELL DEPTH (completed) Date Started: 11/12/07
80.0 ft. Date Completed: 11/12/07

10. CASING: ☑ Threaded ☐ Welded
Diam.: 2 INCH
Type: ☑ PVC ☑ Galvanized ☐ Steel ☐ Other
2.0 in. to 75.0 ft. depth
6 1/4 in. to 72.0 ft. depth
Height: Above ☐ Below ☐
Surface 0.0 ft.
Weight _____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: SCH 40 PVC Diam.: 2 INCH
Slot/Gauge: .010 Length: 5.0 FT.
Set Between: 75.0 ft. and 80.0 ft.
_____ ft. and _____ ft.
NOTE: MULTIPLE SCREENS USE SECOND SHEET
Sieve Analysis ☐ Yes (please enclose) ☑ No

12. STATIC WATER LEVEL 15.0 ft. below land surface after 24 hours

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

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

15. ARTIFICIAL FILTER (filter pack) ☑ Yes ☐ No
Installed from 73.0 ft. to 80.0 ft.
Effective size 1.43 Uniformity Coefficient 1.30

16. WELL GROUTED? ☑ Yes ☐ No
☑ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other _____
Depth: From 0.0 ft. to 69.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction
Type _____
Well Disinfected ☐ Yes ☐ No Type: _____ Amount: _____

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

19. WELL DRILLER: JASON MANTAK **CERT. NO.:** 01494
Address: (Print) 176 COMMERCE BLVD
STATESVILLE, NC 28625
Level: A ☐ B ☑ C ☐ D ☐ (circle one)
Telephone No.: 704-872-7686 Fax No.: 704-872-0248

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

Signed: _____ Date: 12/13/07
Well Driller

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

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

APPENDIX D

Groundwater Sampling Field Measurements

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 11/15/07
Field Personnel: JOHN MONEGHAN
General Weather Conditions: CLOUDY, COLD

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: FMN PANTRY 585
Site ID#: _____ Monitoring Well # MW1
Water Supply Well Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:		feet
Depth to Free Product (DFP)	13.67	feet
Depth to Ground Water (DGW)	13.93	feet
Total Well Depth (TWD)	25.0	feet
Length of the water column (LWC=TWD-DGW)	11.07	feet

1 casing volume (CV=LWC X C)= _____ X _____ = _____ gals
3 casing volume (3 X CV)= _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling NP gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)							1120	
pH (s.u.)								
Specific Conductivity (µmhos/cm)								
Water Temperature (°C)								
Dissolved Oxygen								
PID readings, if required								

Remarks: _____

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 11/15/07

Field Personnel: JOHN MONEGHAN

General Weather Conditions: CLOUDY, COLD

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: FMN PANTRY 585

Site ID#: _____ Monitoring Well # MW2

Water Supply Well Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:		feet
Depth to Free Product (DFP)		feet
Depth to Ground Water (DGW)	12.91	feet
Total Well Depth (TWD)	20.0	feet
Length of the water column (LWC=TWD-DGW)	7.09	feet

1 casing volume (CV=LWC X C)= _____ X _____ = _____ gals

3 casing volume (3 X CV)= _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling NP gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)							1010	
pH (s.u.)							4.97	
Specific Conductivity (µmhos/cm)							249	
Water Temperature (°C)							19.82	
Dissolved Oxygen								
PID readings, if required								

Remarks: _____

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 11/15/07

Field Personnel: JOHN MONEGHAN

General Weather Conditions: CLOUDY, COLD

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: FMN PANTRY 585

Site ID#: _____ Monitoring Well # MW3

Water Supply Well Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:		feet
Depth to Free Product (DFP)		feet
Depth to Ground Water (DGW)	10.28	feet
Total Well Depth (TWD)	15.0	feet
Length of the water column (LWC=TWD-DGW)	4.72	feet

1 casing volume (CV=LWC X C)= _____ X _____ = _____ gals

3 casing volume (3 X CV)= _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling NP gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)							1035	
pH (s.u.)							5.18	
Specific Conductivity (µmhos/cm)							298	
Water Temperature (°C)							20.15	
Dissolved Oxygen								
PID readings, if required								

Remarks: _____

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 11/15/07

Field Personnel: JOHN MONEGHAN

General Weather Conditions: CLOUDY, COLD

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: FMN PANTRY 585

Site ID#: _____ Monitoring Well # MW4

Water Supply Well Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:		feet
Depth to Free Product (DFP)		feet
Depth to Ground Water (DGW)	11.06	feet
Total Well Depth (TWD)	150	feet
Length of the water column (LWC=TWD-DGW)	3.94	feet

1 casing volume (CV=LWC X C)= _____ X _____ = _____ gals

3 casing volume (3 X CV)= _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling NP gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)							1055	
pH (s.u.)								
Specific Conductivity (µmhos/cm)								
Water Temperature (°C)								
Dissolved Oxygen								
PID readings, if required								

Remarks: _____

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 11/15/07
Field Personnel: JOHN MONEGHAN
General Weather Conditions: CLOUDY, COLD

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: FMN PANTRY 585
Site ID#: _____ Monitoring Well # MW5
Water Supply Well Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:		feet
Depth to Free Product (DFP)	13.54	feet
Depth to Ground Water (DGW)	13.56	feet
Total Well Depth (TWD)	15.0	feet
Length of the water column (LWC=TWD-DGW)		feet

1 casing volume (CV=LWC X C)= _____ X _____ = _____ gals
3 casing volume (3 X CV)= _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling NP gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)							1205	
pH (s.u.)								
Specific Conductivity (µmhos/cm)								
Water Temperature (°C)								
Dissolved Oxygen								
PID readings, if required								

Remarks: _____

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 11/15/07
Field Personnel: JOHN MONEGHAN
General Weather Conditions: CLOUDY, COLD

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: FMN PANTRY 585
Site ID#: _____ Monitoring Well # MW6
Water Supply Well Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:		feet
Depth to Free Product (DFP)		feet
Depth to Ground Water (DGW)	14.23	feet
Total Well Depth (TWD)	18.0	feet
Length of the water column (LWC=TWD-DGW)	3.77	feet

1 casing volume (CV=LWC X C)= _____ X _____ = _____ gals
3 casing volume (3 X CV)= _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling NP gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)							1225	
pH (s.u.)								
Specific Conductivity (µmhos/cm)								
Water Temperature (°C)								
Dissolved Oxygen								
PID readings, if required								

Remarks: _____

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 11/15/07
Field Personnel: JOHN MONEGHAN
General Weather Conditions: CLOUDY, COLD

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: FMN PANTRY 585
Site ID#: _____ Monitoring Well # MW7
Water Supply Well Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:		feet
Depth to Free Product (DFP)		feet
Depth to Ground Water (DGW)	11.37	feet
Total Well Depth (TWD)	15.0	feet
Length of the water column (LWC=TWD-DGW)	3.63	feet

1 casing volume (CV=LWC X C)= _____ X _____ = _____ gals
3 casing volume (3 X CV)= _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling NP gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)							1140	
pH (s.u.)							5.18	
Specific Conductivity (µmhos/cm)							202	
Water Temperature (°C)							22.56	
Dissolved Oxygen								
PID readings, if required								

Remarks: _____

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 11/15/07
Field Personnel: JOHN MONEGHAN
General Weather Conditions: CLOUDY, COLD

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: FMN PANTRY 585
Site ID#: _____ Monitoring Well # MW8
Water Supply Well Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:		feet
Depth to Free Product (DFP)	11.79	feet
Depth to Ground Water (DGW)	12.10	feet
Total Well Depth (TWD)	17.0	feet
Length of the water column (LWC=TWD-DGW)	4.90	feet

1 casing volume (CV=LWC X C)= _____ X _____ = 100 gals
3 casing volume (3 X CV)= 300 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)							1255	
pH (s.u.)								
Specific Conductivity (µmhos/cm)								
Water Temperature (°C)								
Dissolved Oxygen								
PID readings, if required								

Remarks: _____

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 11/15/07
Field Personnel: JOHN MONEGHAN
General Weather Conditions: CLOUDY, COLD

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: FMN PANTRY 585
Site ID#: _____ Monitoring Well # MW9
Water Supply Well Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:		feet
Depth to Free Product (DFP)		feet
Depth to Ground Water (DGW)	13.29	feet
Total Well Depth (TWD)	17.0	feet
Length of the water column (LWC=TWD-DGW)	3.71	feet

1 casing volume (CV=LWC X C)= _____ X _____ = 1.50 gals
3 casing volume (3 X CV)= 1.50 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)							1405	
pH (s.u.)								
Specific Conductivity (µmhos/cm)								
Water Temperature (°C)								
Dissolved Oxygen								
PID readings, if required								

Remarks: ODOR

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 11/15/07

Field Personnel: JOHN MONEGHAN

General Weather Conditions: CLOUDY, COLD

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: FMN PANTRY 585

Site ID#: _____ Monitoring Well # MW10

Water Supply Well Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet
Depth to Free Product (DFP) 12.92 feet
Depth to Ground Water (DGW) 14.68 feet
Total Well Depth (TWD) 17.0 feet
Length of the water column (LWC=TWD-DGW) 2.32 feet
1 casing volume (CV=LWC X C)= _____ X _____ = 0.50 gals
3 casing volume (3 X CV)= 1.50 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)							1315	
pH (s.u.)								
Specific Conductivity (µmhos/cm)								
Water Temperature (°C)								
Dissolved Oxygen								
PID readings, if required								

Remarks: _____

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 11/15/07

Field Personnel: JOHN MONEGHAN

General Weather Conditions: CLOUDY, COLD

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: FMN PANTRY 585

Site ID#: _____ Monitoring Well # MW11

Water Supply Well Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet
Depth to Free Product (DFP) 13.61 feet
Depth to Ground Water (DGW) 13.91 feet
Total Well Depth (TWD) 17.0 feet
Length of the water column (LWC=TWD-DGW) 3.09 feet
1 casing volume (CV=LWC X C)= _____ X _____ = 1.00 gals
3 casing volume (3 X CV)= 3.00 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)							1340	
pH (s.u.)								
Specific Conductivity (µmhos/cm)								
Water Temperature (°C)								
Dissolved Oxygen								
PID readings, if required								

Remarks: _____

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 11/15/07
Field Personnel: JOHN MONEGHAN
General Weather Conditions: CLOUDY, COLD

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: FMN PANTRY 585
Site ID#: _____ Monitoring Well # MW12
Water Supply Well Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:		feet
Depth to Free Product (DFP)		feet
Depth to Ground Water (DGW)	12.26	feet
Total Well Depth (TWD)	17.0	feet
Length of the water column (LWC=TWD-DGW)	4.74	feet

1 casing volume (CV=LWC X C)= _____ X _____ = 1.00 gals
3 casing volume (3 X CV)= 3.00 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)							1425	
pH (s.u.)								
Specific Conductivity (µmhos/cm)								
Water Temperature (°C)								
Dissolved Oxygen								
PID readings, if required								

Remarks: ODOR

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 11/15/07
Field Personnel: JOHN MONEGHAN
General Weather Conditions: CLOUDY, COLD

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: FMN PANTRY 585
Site ID#: _____ Monitoring Well # MW13
Water Supply Well Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:		feet
Depth to Free Product (DFP)		feet
Depth to Ground Water (DGW)	10.57	feet
Total Well Depth (TWD)	13.0	feet
Length of the water column (LWC=TWD-DGW)	2.43	feet
1 casing volume (CV=LWC X C)= ____ X ____ =	.150	gals
3 casing volume (3 X CV)=	1.50	gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)							0925	
pH (s.u.)								
Specific Conductivity (µmhos/cm)								
Water Temperature (°C)								
Dissolved Oxygen								
PID readings, if required								

Remarks: Optional

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 11/15/07

Field Personnel: JOHN MONEGHAN

General Weather Conditions: CLOUDY, COLD

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: FMN PANTRY 585

Site ID#: _____ Monitoring Well # KM017

Water Supply Well Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:		feet
Depth to Free Product (DFP)		feet
Depth to Ground Water (DGW)	10.13	feet
Total Well Depth (TWD)	15.0	feet
Length of the water column (LWC=TWD-DGW)	4.87	feet

1 casing volume (CV=LWC X C)= _____ X _____ = _____ gals

3 casing volume (3 X CV)= _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling NP gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)							0835	
pH (s.u.)								
Specific Conductivity (µmhos/cm)								
Water Temperature (°C)								
Dissolved Oxygen								
PID readings, if required								

Remarks: ODOR

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 11/15/07
Field Personnel: JOHN MONEGIHAN
General Weather Conditions: CLOUDY, COLD

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: FMN PANTRY 585
Site ID#: _____ Monitoring Well # KM018
Water Supply Well Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:		feet
Depth to Free Product (DFP)		feet
Depth to Ground Water (DGW)	8.36	feet
Total Well Depth (TWD)	15.0	feet
Length of the water column (LWC=TWD-DGW)	6.64	feet

1 casing volume (CV=LWC X C)= _____ X _____ = _____ gals
3 casing volume (3 X CV)= _____ gals (standard purge volume)

Total Volume of Water Purged Before Sampling NP gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)							0900	
pH (s.u.)							5.27	
Specific Conductivity (µmhos/cm)							244	
Water Temperature (°C)							20.55	
Dissolved Oxygen								
PID readings, if required								

Remarks: _____

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 11/15/07

Field Personnel: JOHN MONEGHAN

General Weather Conditions: CLOUDY, COLD

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: FMN PANTRY 585

Site ID#: _____ Monitoring Well # DMW1

Water Supply Well Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness: _____ feet
Depth to Free Product (DFP) _____ feet
Depth to Ground Water (DGW) 13.49 feet
Total Well Depth (TWD) 78.0 feet
Length of the water column (LWC=TWD-DGW) 64.51 feet
1 casing volume (CV=LWC X C)= _____ X _____ = 10.00 gals
3 casing volume (3 X CV)= 30.00 gals (standard purge volume)

Total Volume of Water Purged Before Sampling _____ gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)							0805	
pH (s.u.)								
Specific Conductivity (µmhos/cm)								
Water Temperature (°C)								
Dissolved Oxygen								
PID readings, if required								

Remarks: ODOR

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management Underground Storage Tank Program

Field Data Information Sheet for Groundwater Sampling

Date (mm/dd/yy): 11/15/07
Field Personnel: JOHN MONEGHAN
General Weather Conditions: CLOUDY, COLD

Ambient Air Temperature: _____ °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0		standard	
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by _____ Date/Time _____ Received by _____ Date/Time _____

Facility Name: FMN PANTRY 585
Site ID#: _____ Monitoring Well # DMW2
Water Supply Well Public _____ Private _____

Monitoring Well Diameter (D): 2" feet

Conversion Factor (C): 3.14 x $(D/2)^2$ for a 2 inch well C=0.163
for a 4 inch well C=0.652

* Free Product Thickness:		feet
Depth to Free Product (DFP)		feet
Depth to Ground Water (DGW)	13.76	feet
Total Well Depth (TWD)	80.0	feet
Length of the water column (LWC=TWD-DGW)	66.24	feet
1 casing volume (CV=LWC X C)= ____ X ____ =	11.00	gals
3 casing volume (3 X CV)=	33.0	gals (standard purge volume)

Total Volume of Water Purged Before Sampling 18.0 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)							1540	
pH (s.u.)	6.56	7.80					7.27	
Specific Conductivity (µmhos/cm)	240.	234					125.	
Water Temperature (°C)	23.78	24.36					19.77	
Dissolved Oxygen	7.71	6.93					8.05	
PID readings, if required								

Remarks: _____

APPENDIX E

Laboratory Analytical Results and Chain-of-Custody

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Case Narrative for:

ATC ASSOCIATES, INC.

Certificate of Analysis Number:

07100112

Report To:		Project Name:	14.25384.0585
ATC ASSOCIATES, INC.		Site:	PANTRY #585
JESSE KEEFFE		Site Address:	
400 NORTHEAST DRIVE			
UNIT Q		PO Number:	
COLUMBIA		State:	South Carolina
SC		State Cert. No.:	73004001
29203-			
ph: (803) 735-0003	fax:	Date Reported:	10/9/2007

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data for those samples spiked by the laboratory and may be applicable to other samples of similar matrix from the site. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process. If insufficient sample is supplied for MS/MSD, a Laboratory Control Sample (LCS) and a Laboratory Control Sample Duplicate (LCSD) are reported with the analytical batch and serve as the batch quality control (QC).

Results are reported on a Wet Weight Basis unless otherwise noted in the sample unit field as -dry.

The collection of samples using encores, terracores or other field collection devices may result in inconsistent initial sample weights for the parent sample and MS/MSD samples.

The MS/MSD recovery and precision data are calculated based on detected spike concentrations that are adjusted for initial sample weights. As a result of the variability between initial sample weights, the calculated RPD may have increased bias.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

TOTAL NUMBER OF PAGES IN THIS REPORT: 17 PAGES

Alberto E. Granados
Project Manager

Test results meet all requirements of NELAC, unless specified in the narrative.

10/9/2007
Date

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

ATC ASSOCIATES, INC.

Certificate of Analysis Number:

07100112

Report To: ATC ASSOCIATES, INC.
JESSE KEEFFE
400 NORTHEAST DRIVE
UNIT Q
COLUMBIA
SC
29203-
ph: (803) 735-0003 fax: (803) 735-0443

Fax To:

Project Name: 14.25384.0585
Site: PANTRY #585
Site Address:

PO Number:
State: South Carolina
State Cert. No.: 73004001
Date Reported: 10/9/2007

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
MW-13	07100112-01	Soil	10/1/2007 12:00:00 PM	10/3/2007 9:45:00 AM	187487	☐
MW-10	07100112-02	Soil	10/1/2007 2:00:00 PM	10/3/2007 9:45:00 AM	187487	☐
MW-9	07100112-03	Soil	10/1/2007 2:40:00 PM	10/3/2007 9:45:00 AM	187487	☐
MW-8	07100112-04	Soil	10/1/2007 4:20:00 PM	10/3/2007 9:45:00 AM	187487	☐
MW-11	07100112-05	Soil	10/2/2007 8:50:00 AM	10/3/2007 9:45:00 AM	187487	☐
MW-12	07100112-06	Soil	10/2/2007 10:30:00 AM	10/3/2007 9:45:00 AM	187487	☐

Alberto E. Granados
Project Manager

10/9/2007
Date

Ron Benjamin
Laboratory Director

Tristan Davis
Quality Assurance Officer

LAFAYETTE LABORATORY
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SCOTT, LA 70583
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Client Sample ID MW-13 **Collected:** 10/01/2007 12:00 **SPL Sample ID:** 07100112-01

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PERCENT MOISTURE				**MCL**	**D2216**	**Units: wt%**	
Percent Moisture	25		0.1	1	10/04/07 11:27	RDH	2386448
VOLATILE ORGANICS: METHOD 8260B+MTBE+NAPHTHALE				**MCL**	**SW8260B**	**Units: ug/Kg**	
Benzene	ND		4	1	10/04/07 19:50	AMT	2387764
Ethylbenzene	ND		4	1	10/04/07 19:50	AMT	2387764
Methyl tert-butyl ether	ND		4	1	10/04/07 19:50	AMT	2387764
Naphthalene	6.3		4	1	10/04/07 19:50	AMT	2387764
Toluene	10		4	1	10/04/07 19:50	AMT	2387764
m,p-Xylene	18		4	1	10/04/07 19:50	AMT	2387764
o-Xylene	14		4	1	10/04/07 19:50	AMT	2387764
Xylenes,Total	32		4	1	10/04/07 19:50	AMT	2387764
Surr: 1,2-Dichloroethane-d4	111		% 58-165	1	10/04/07 19:50	AMT	2387764
Surr: 4-Bromofluorobenzene	99.2		% 47-145	1	10/04/07 19:50	AMT	2387764
Surr: Toluene-d8	100		% 51-147	1	10/04/07 19:50	AMT	2387764

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	10/01/2007 12:00	Field	0.81

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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Client Sample ID MW-10 **Collected:** 10/01/2007 14:00 **SPL Sample ID:** 07100112-02

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PERCENT MOISTURE				**MCL**	**D2216**	**Units: wt%**	
Percent Moisture	25		0.1	1	10/04/07 11:27	RDH	2386447
VOLATILE ORGANICS: METHOD 8260B+MTBE+NAPHTHALE				**MCL**	**SW8260B**	**Units: ug/Kg**	
Benzene	ND		4.8	1	10/04/07 20:19	AMT	2387765
Ethylbenzene	56		4.8	1	10/04/07 20:19	AMT	2387765
Methyl tert-butyl ether	ND		4.8	1	10/04/07 20:19	AMT	2387765
Naphthalene	130		4.8	1	10/04/07 20:19	AMT	2387765
Toluene	55		4.8	1	10/04/07 20:19	AMT	2387765
m,p-Xylene	190		4.8	1	10/04/07 20:19	AMT	2387765
o-Xylene	100		4.8	1	10/04/07 20:19	AMT	2387765
Xylenes,Total	290		4.8	1	10/04/07 20:19	AMT	2387765
Surr: 1,2-Dichloroethane-d4	235	MI	% 58-165	1	10/04/07 20:19	AMT	2387765
Surr: 4-Bromofluorobenzene	151	MI	% 47-145	1	10/04/07 20:19	AMT	2387765
Surr: Toluene-d8	103		% 51-147	1	10/04/07 20:19	AMT	2387765

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	10/01/2007 14:00	Field	0.96

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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Client Sample ID MW-9 **Collected:** 10/01/2007 14:40 **SPL Sample ID:** 07100112-03

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PERCENT MOISTURE				**MCL**	**D2216**	**Units: wt%**	
Percent Moisture	21		0.1	1	10/04/07 11:27	RDH	2386446
VOLATILE ORGANICS: METHOD 8260B+MTBE+NAPHTHALE				**MCL**	**SW8260B**	**Units: ug/Kg**	
Benzene	6		4.7	1	10/04/07 20:50	AMT	2387766
Ethylbenzene	ND		4.7	1	10/04/07 20:50	AMT	2387766
Methyl tert-butyl ether	ND		4.7	1	10/04/07 20:50	AMT	2387766
Naphthalene	54		4.7	1	10/04/07 20:50	AMT	2387766
Toluene	15		4.7	1	10/04/07 20:50	AMT	2387766
m,p-Xylene	23		4.7	1	10/04/07 20:50	AMT	2387766
o-Xylene	6.5		4.7	1	10/04/07 20:50	AMT	2387766
Xylenes,Total	29.5		4.72	1	10/04/07 20:50	AMT	2387766
Surr: 1,2-Dichloroethane-d4	146		% 58-165	1	10/04/07 20:50	AMT	2387766
Surr: 4-Bromofluorobenzene	118		% 47-145	1	10/04/07 20:50	AMT	2387766
Surr: Toluene-d8	103		% 51-147	1	10/04/07 20:50	AMT	2387766

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	10/01/2007 14:40	Field	0.94

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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Client Sample ID MW-8 **Collected:** 10/01/2007 16:20 **SPL Sample ID:** 07100112-04

Site: **PANTRY #585**

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PERCENT MOISTURE				**MCL**	**D2216**	**Units: wt%**	
Percent Moisture	18		0.1	1	10/04/07 11:27	RDH	2386445
VOLATILE ORGANICS: METHOD 8260B+MTBE+NAPHTHALE				**MCL**	**SW8260B**	**Units: ug/Kg**	
Benzene	ND		4.9	1	10/04/07 21:19	AMT	2387767
Ethylbenzene	ND		4.9	1	10/04/07 21:19	AMT	2387767
Methyl tert-butyl ether	ND		4.9	1	10/04/07 21:19	AMT	2387767
Naphthalene	20		4.9	1	10/04/07 21:19	AMT	2387767
Toluene	5.4		4.9	1	10/04/07 21:19	AMT	2387767
m,p-Xylene	20		4.9	1	10/04/07 21:19	AMT	2387767
o-Xylene	11		4.9	1	10/04/07 21:19	AMT	2387767
Xylenes,Total	31		4.9	1	10/04/07 21:19	AMT	2387767
Surr: 1,2-Dichloroethane-d4	106		% 58-165	1	10/04/07 21:19	AMT	2387767
Surr: 4-Bromofluorobenzene	97.6		% 47-145	1	10/04/07 21:19	AMT	2387767
Surr: Toluene-d8	98.5		% 51-147	1	10/04/07 21:19	AMT	2387767

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	10/01/2007 16:20	Field	0.98

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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Client Sample ID: MW-11 **Collected:** 10/02/2007 8:50 **SPL Sample ID:** 07100112-05

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PERCENT MOISTURE				**MCL**	**D2216**	**Units: wt%**	
Percent Moisture	23		0.1	1	10/04/07 11:27	RDH	2386444
VOLATILE ORGANICS: METHOD 8260B+MTBE+NAPHTHALE				**MCL**	**SW8260B**	**Units: ug/Kg-dry**	
Benzene	1300		300	50	10/07/07 10:04	AMT	2389966
Ethylbenzene	4600		300	50	10/07/07 10:04	AMT	2389966
Methyl tert-butyl ether	ND		6	1	10/04/07 21:49	AMT	2387768
Naphthalene	ND		6	1	10/04/07 21:49	AMT	2387768
Toluene	60		6	1	10/04/07 21:49	AMT	2387768
m,p-Xylene	16000		300	50	10/07/07 10:04	AMT	2389966
o-Xylene	1300		300	50	10/07/07 10:04	AMT	2389966
Xylenes,Total	17300		301	50	10/07/07 10:04	AMT	2389966
Surr: 1,2-Dichloroethane-d4	79.5		% 62-134	50	10/07/07 10:04	AMT	2389966
Surr: 1,2-Dichloroethane-d4	252	MI	% 58-165	1	10/04/07 21:49	AMT	2387768
Surr: 4-Bromofluorobenzene	98.3		% 75-128	50	10/07/07 10:04	AMT	2389966
Surr: 4-Bromofluorobenzene	102		% 47-145	1	10/04/07 21:49	AMT	2387768
Surr: Toluene-d8	98.3		% 78-120	50	10/07/07 10:04	AMT	2389966
Surr: Toluene-d8	109		% 51-147	1	10/04/07 21:49	AMT	2387768

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	10/02/2007 8:50	Field	0.93

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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Client Sample ID MW-12 **Collected:** 10/02/2007 10:30 **SPL Sample ID:** 07100112-06

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
PERCENT MOISTURE				**MCL**	**D2216**	**Units: wt%**	
Percent Moisture	24		0.1	1	10/04/07 11:27	RDH	2386443
VOLATILE ORGANICS: METHOD 8260B+MTBE+NAPHTHALE				**MCL**	**SW8260B**	**Units: ug/Kg**	
Benzene	6.3		4.5	1	10/04/07 22:19	AMT	2387769
Ethylbenzene	ND		4.5	1	10/04/07 22:19	AMT	2387769
Methyl tert-butyl ether	ND		4.5	1	10/04/07 22:19	AMT	2387769
Naphthalene	ND		4.5	1	10/04/07 22:19	AMT	2387769
Toluene	ND		4.5	1	10/04/07 22:19	AMT	2387769
m,p-Xylene	ND		4.5	1	10/04/07 22:19	AMT	2387769
o-Xylene	ND		4.5	1	10/04/07 22:19	AMT	2387769
Xylenes,Total	ND		4.5	1	10/04/07 22:19	AMT	2387769
Surr: 1,2-Dichloroethane-d4	110		% 58-165	1	10/04/07 22:19	AMT	2387769
Surr: 4-Bromofluorobenzene	96.7		% 47-145	1	10/04/07 22:19	AMT	2387769
Surr: Toluene-d8	99.6		% 51-147	1	10/04/07 22:19	AMT	2387769

Prep Method	Prep Date	Prep Initials	Prep Factor
SW5035	10/02/2007 10:30	Field	0.89

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

Quality Control Documentation

LAFAYETTE LABORATORY
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SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

14.25384.0585

Analysis: PERCENT MOISTURE
Method: D2216

WorkOrder: 07100112
Lab Batch ID: R163094

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
07100112-01A	MW-13
07100112-02A	MW-10
07100112-03A	MW-9
07100112-04A	MW-8
07100112-05A	MW-11
07100112-06A	MW-12

Sample Duplicate

Original Sample: 07100112-06
RunID: WET_071004F-2386443 Units: wt%
Analysis Date: 10/04/2007 11:27 Analyst: RDH

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Percent Moisture	24	23.5	2.1	20

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

LAFAYETTE LABORATORY
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Quality Control Report

ATC ASSOCIATES, INC.

14.25384.0585

Analysis: Volatile Organics: Method 8260B+MTBE+Naphthalene
Method: SW8260B

WorkOrder: 07100112
Lab Batch ID: R163180

Method Blank

RunID: GA_071004A-2387755 Units: ug/Kg
Analysis Date: 10/04/2007 15:12 Analyst: AMT
Preparation Date: 10/04/2007 15:12 Prep By: Method SW5035

Analyte	Result	Rep Limit
Benzene	ND	5.0
Ethylbenzene	ND	5.0
Methyl tert-butyl ether	ND	5.0
Naphthalene	ND	5.0
Toluene	ND	5.0
m,p-Xylene	ND	5.0
o-Xylene	ND	5.0
Xylenes,Total	ND	5.0
Surr: 1,2-Dichloroethane-d4	109.9	58-165
Surr: 4-Bromofluorobenzene	95.6	47-145
Surr: Toluene-d8	99.6	51-147

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
07100112-01A	MW-13
07100112-02A	MW-10
07100112-03A	MW-9
07100112-04A	MW-8
07100112-05A	MW-11
07100112-06A	MW-12

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: GA_071004A-2387753 Units: ug/Kg
Analysis Date: 10/04/2007 13:42 Analyst: AMT
Preparation Date: 10/04/2007 13:42 Prep By: Method SW5035

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	50.0	46.1	92.1	50.0	48.5	96.9	5.1	21	73	136
Ethylbenzene	50.0	54.4	109	50.0	56.1	112	2.9	30	50	150
Methyl tert-butyl ether	50.0	25.8	51.6	50.0	29.1	58.2	12.1	30	50	150
Naphthalene	50.0	53.8	108	50.0	53.8	108	0.0	30	50	150
Toluene	50.0	50.1	100	50.0	51.7	103	3.2	20	65	116
m,p-Xylene	100	87.1	87.1	100	90.8	90.8	4.2	30	50	150
o-Xylene	50.0	53.0	106	50.0	55.0	110	3.7	30	50	150
Xylenes,Total	150.0	140.1	93.38	150.0	145.8	97.20	4.0	30	50	150
Surr: 1,2-Dichloroethane-d4	50.0	50.5	101	50.0	51.6	103	2.1	30	58	165
Surr: 4-Bromofluorobenzene	50.0	51.0	102	50.0	49.6	99.3	2.7	30	47	145
Surr: Toluene-d8	50.0	51.0	102	50.0	51.3	103	0.6	30	51	147

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

ATC ASSOCIATES, INC.

14.25384.0585

Analysis: Volatile Organics: Method 8260B+MTBE+Naphthalene
Method: SW8260B

WorkOrder: 07100112
Lab Batch ID: R163340

Method Blank

RunID: GB_071006B-2389951 Units: ug/L
Analysis Date: 10/07/2007 3:01 Analyst: AMT
Preparation Date: 10/07/2007 3:01 Prep By: Method SW5035

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
07100112-05A	MW-11

Analyte	Result	Rep Limit
Benzene	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylene	ND	5.0
o-Xylene	ND	5.0
Xylenes,Total	ND	5.0
Surr: 1,2-Dichloroethane-d4	81.7	74-133
Surr: 4-Bromofluorobenzene	100.5	74-116
Surr: Toluene-d8	99.1	84-112

Methanolic Preparation Blank

RunID: GB_071006B-2389970 Units: ug/Kg
Analysis Date: 10/07/2007 2:33 Analyst: AMT
Preparation Date: 10/07/2007 2:33 Prep By: Method SW5035

Analyte	Result	Rep Limit
Benzene	ND	5
Ethylbenzene	ND	5
m,p-Xylene	ND	5
o-Xylene	ND	5
Xylenes,Total	ND	5
Surr: 1,2-Dichloroethane-d4	79.9	62-134
Surr: 4-Bromofluorobenzene	100.1	75-128
Surr: Toluene-d8	97.0	78-120

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: GB_071006B-2390558 Units: ug/L
Analysis Date: 10/07/2007 1:36 Analyst: AMT

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	50.0	62.0	124 *	50.0	61.9	124	0.2	33	79	124
Ethylbenzene	50.0	49.8	99.5	50.0	49.0	98.0	1.5	20	79	125
m,p-Xylene	100	92.1	92.1	100	91.2	91.2	1.1	20	77	132
o-Xylene	50.0	50.5	101	50.0	49.6	99.3	1.7	20	76	127
Xylenes,Total	150.0	142.6	95.06	150.0	140.8	93.87	1.3	20	76	130

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

14.25384.0585

Analysis: Volatile Organics: Method 8260B+MTBE+Naphthalene
Method: SW8260B

WorkOrder: 07100112
Lab Batch ID: R163340

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: GB_071006B-2390558 Units: ug/L
Analysis Date: 10/07/2007 1:36 Analyst: AMT

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Surr: 1,2-Dichloroethane-d4	50.0	39.7	79.3	50.0	39.9	79.7	0.5	30	74	133
Surr: 4-Bromofluorobenzene	50.0	50.0	100	50.0	50.6	101	1.2	30	74	116
Surr: Toluene-d8	50.0	49.4	98.9	50.0	49.3	98.5	0.4	30	84	112

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

Sample Receipt Checklist

And

Chain of Custody

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Sample Receipt Checklist

Workorder:	07100112	Received By:	JM
Date and Time Received:	10/3/2007 9:45:00 AM	Carrier name:	FedEx-Std 1 Day PM
Temperature:	2.5°C	Chilled by:	Water Ice

1.	Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2.	Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
3.	Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4.	Chain of custody present?	Yes ☑	No ☐	
5.	Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
6.	Chain of custody agrees with sample labels?	Yes ☑	No ☐	
7.	Samples in proper container/bottle?	Yes ☑	No ☐	
8.	Sample containers intact?	Yes ☑	No ☐	
9.	Sufficient sample volume for indicated test?	Yes ☑	No ☐	
10.	All samples received within holding time?	Yes ☑	No ☐	
11.	Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
12.	Water - VOA vials have zero headspace?	Yes ☐	No ☐	VOA Vials Not Present ☑
13.	Water - Preservation checked upon receipt (except VOA*)?	Yes ☐	No ☐	Not Applicable ☑

*VOA Preservation Checked After Sample Analysis

SPL Representative: _____ Contact Date & Time: _____

Client Name Contacted: _____

Non Conformance Issues: _____

Client Instructions: _____

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No. 0710012 — 187487

page 1 of 1

Client Name: ATC Associates Inc.
Address: 400 Northeast St. / Mail to / Columbia SC 29203
Phone/Fax: 803 735 0003 / 803 735 0443
Client Contact: Jesse Keffe Email:
Project Name/No.: 14.25384.0585
Site Name: Pantry 585-81, Food Mart
Site Location: 502 E. Greenville Str. / Anderson SC
Invoice To: Bob Bolton Ph:

SAMPLE ID	DATE	TIME	comp	grab	matrix (W=water S=soil SL=sludge O=oil X=other)	bottle (P=plastic A=amber glass G=glass V=vial X=other)	size (1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other)	pres. (1=HCl 2=HNO3 3=H2SO4 X=other)	Number of Containers	8260B BTEX, Naph, MTBE							
MW-13	10-01-07	12:00		X	S	G	40,4	X	4	X				4			
MW-10	10-01-07	14:00		X	S	G	40,4	X	4	X				4			
MW-9	10-01-07	14:40		X	S	G	40,4	X	4	X				4			
MW-8	10-01-07	16:20		X	S	G	40,4	X	4	X				4			
MW-11	10-02-07	8:50		X	S	G	40,4	X	4	X				4			
MW-12	10-02-07	10:30		X	S	G	40,4	X	4	X				4			

Client/Consultant Remarks:

Laboratory remarks: NO GS. MW-12 BGW (BW-51-9)

Intact? ☑ Y ☐ N
Ice? ☑ Y ☐ N
Temp: 2.5

Requested TAT

Contract ☐ 72hr ☐
24hr ☐ Standard ☒
48hr ☐
Other ☐ _____

Special Reporting Requirements Results: Fax ☐ Email ☒ PDF ☐
Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☐

Special Detection Limits (specify):

PM review (initial):

1. Relinquished by Sampler: Jesse Keffe	date 10/2/07	time	2. Received by: Fedex
3. Relinquished by:	date	time	4. Received by:
5. Relinquished by: Fedex	date 10/3/07	time 7:45	6. Received by Laboratory:

☐ 8880 Interchange Drive
Houston, TX 77054 (713) 660-0901

☒ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

☐ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

FedEx US Airbill Express

FedEx Tracking Number 8576 4298 1631

Form ID No. 0215

07 17:05

Recipient

1 From This portion can be removed for Recipient's records.

Date 10-22-07 FedEx Tracking Number 857642981631

Sender's Name JESSE KEFFE Phone 803 735 0003

Company AIC Associates, Inc

Address 400 Northeast Dr Unit Q

Dept./Floor/Suite/Room

City Columbia State SC ZIP 29203

2 Your Internal Billing Reference

3 To

Recipient's Name SHIPPING AND RECEIVING Phone 337 237-4775

Company SOUTHERN PETROLEUM LAB

Recipient's Address 500 AMBASSADOR CAFFERY PKWY

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City SCOTT State LA ZIP 70583-5300

0336576645

8576 4298 1631

RECIPIENT: PEEL HERE

fedex.com 1.800.GoFedEx 1.800.463.3339

4a Express Package Service *Packages up to 150 lbs.*

- [ ] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [x] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate.

* To most locations.

4b Express Freight Service *Packages over 150 lbs.*

- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation: ** To most locations.

5 Packaging

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [ ] Other

* Declared value limit $500.

6 Special Handling — Include FedEx address in Section 3.

- [ ] **SATURDAY Delivery** — Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] **HOLD Weekday at FedEx Location** — Not available for FedEx First Overnight.
- [ ] **HOLD Saturday at FedEx Location** — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? Non Hazardous Cargo

One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

705-

Total Packages	Total Weight	Total Charges
1	28	Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

8 *NEW* Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Anyone at recipient's address may sign for delivery. *Fee applies.*
- [ ] Indirect Signature — If no one is available at recipient's address, anyone at a neighboring address may sign for delivery. *Fee applies.*

519

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ALIGN OPEN END OF FEDEX AIRBILL POUCH

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Case Narrative for:

ATC ASSOCIATES, INC.

Certificate of Analysis Number:

07110742

Report To:		Project Name:	14.25384.0585
ATC ASSOCIATES, INC.		Site:	PANTRY #585
JESSE KEEFFE		Site Address:	
400 NORTHEAST DRIVE			
UNIT Q		PO Number:	
COLUMBIA			
SC		State:	South Carolina
29203-		State Cert. No.:	73004001
ph: (803) 735-0003	fax:	Date Reported:	11/30/2007

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data for those samples spiked by the laboratory and may be applicable to other samples of similar matrix from the site. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process. If insufficient sample is supplied for MS/MSD, a Laboratory Control Sample (LCS) and a Laboratory Control Sample Duplicate (LCSD) are reported with the analytical batch and serve as the batch quality control (QC).

Results are reported on a Wet Weight Basis unless otherwise noted in the sample unit field as -dry.

The collection of samples using encores, terracores or other field collection devices may result in inconsistent initial sample weights for the parent sample and MS/MSD samples.

The MS/MSD recovery and precision data are calculated based on detected spike concentrations that are adjusted for initial sample weights. As a result of the variability between initial sample weights, the calculated RPD may have increased bias.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

TOTAL NUMBER OF PAGES IN THIS REPORT: _____ PAGES

11/30/2007

Alberto E. Granados
Project Manager

Date

Test results meet all requirements of NELAC, unless specified in the narrative.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

ATC ASSOCIATES, INC.

Certificate of Analysis Number:

07110742

Report To: ATC ASSOCIATES, INC.
JESSE KEEFFE
400 NORTHEAST DRIVE
UNIT Q
COLUMBIA
SC
29203-
ph: (803) 735-0003 fax: (803) 735-0443

Fax To:

Project Name: 14.25384.0585
Site: PANTRY #585
Site Address:

PO Number:
State: South Carolina
State Cert. No.: 73004001
Date Reported: 11/30/2007

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
MW-1	07110742-01	Water	11/15/2007 11:20:00 AM	11/17/2007 9:00:00 AM	274489,274488	☐
MW-2	07110742-02	Water	11/15/2007 10:10:00 AM	11/17/2007 9:00:00 AM	274489,274488	☐
MW-3	07110742-03	Water	11/15/2007 10:35:00 AM	11/17/2007 9:00:00 AM	274489,274488	☐
MW-4	07110742-04	Water	11/15/2007 10:55:00 AM	11/17/2007 9:00:00 AM	274489,274488	☐
MW-5	07110742-05	Water	11/15/2007 12:05:00 PM	11/17/2007 9:00:00 AM	274489,274488	☐
MW-6	07110742-06	Water	11/15/2007 12:25:00 PM	11/17/2007 9:00:00 AM	274489,274488	☐
MW-7	07110742-07	Water	11/15/2007 11:40:00 AM	11/17/2007 9:00:00 AM	274489,274488	☐
MW-8	07110742-08	Water	11/15/2007 12:55:00 PM	11/17/2007 9:00:00 AM	274489,274488	☐
MW-9	07110742-09	Water	11/15/2007 2:05:00 PM	11/17/2007 9:00:00 AM	274489,274488	☐
MW-10	07110742-10	Water	11/15/2007 1:15:00 PM	11/17/2007 9:00:00 AM	274489,274488	☐
MW-11	07110742-11	Water	11/15/2007 1:40:00 PM	11/17/2007 9:00:00 AM	274489,274488	☐
MW-12	07110742-12	Water	11/15/2007 2:25:00 PM	11/17/2007 9:00:00 AM	274489,274488	☐
MW-13	07110742-13	Water	11/16/2007 9:25:00 AM	11/17/2007 9:00:00 AM	274489,274488	☐
KM017	07110742-14	Water	11/16/2007 8:35:00 AM	11/17/2007 9:00:00 AM	274489,274488	☐
KM018	07110742-15	Water	11/16/2007 9:00:00 AM	11/17/2007 9:00:00 AM	274489,274488	☐
DMW-1	07110742-16	Water	11/16/2007 8:05:00 AM	11/17/2007 9:00:00 AM	274489,274488	☐
DMW-2	07110742-17	Water	11/15/2007 3:40:00 PM	11/17/2007 9:00:00 AM	274489,274488	☐

11/30/2007

Alberto E. Granados
Project Manager

Date

Ron Benjamin
Laboratory Director

Tristan Davis
Quality Assurance Officer

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-1 **Collected:** 11/15/2007 11:20 **SPL Sample ID:** 07110742-01

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
TOTAL METALS BY METHOD 6010B - WATER				**MCL**	**SW6010B**	**Units: mg/L**	
Lead	0.0165		0.01	1	11/21/07 14:00	RJD	2441667

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	11/20/2007 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN				**MCL**	**SW8260B**	**Units: ug/L**	
Benzene	6200		100	100	11/27/07 2:56	HJL	2445611
Ethylbenzene	1600		100	100	11/27/07 2:56	HJL	2445611
Methyl tert-butyl ether	2400		100	100	11/27/07 2:56	HJL	2445611
Naphthalene	810		500	100	11/27/07 2:56	HJL	2445611
Toluene	8600		100	100	11/27/07 2:56	HJL	2445611
m,p-Xylene	4900		100	100	11/27/07 2:56	HJL	2445611
o-Xylene	2300		100	100	11/27/07 2:56	HJL	2445611
Xylenes,Total	7200		100	100	11/27/07 2:56	HJL	2445611
Surr: 1,2-Dichloroethane-d4	95.4		% 74-133	100	11/27/07 2:56	HJL	2445611
Surr: 4-Bromofluorobenzene	97.0		% 74-116	100	11/27/07 2:56	HJL	2445611
Surr: Toluene-d8	99.1		% 84-112	100	11/27/07 2:56	HJL	2445611

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-2 **Collected:** 11/15/2007 10:10 **SPL Sample ID:** 07110742-02

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
TOTAL METALS BY METHOD 6010B - WATER				**MCL**	**SW6010B**	**Units: mg/L**	
Lead	ND		0.01	1	11/21/07 15:31	RJD	2443328

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	11/20/2007 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN				**MCL**	**SW8260B**	**Units: ug/L**	
Benzene	ND		1	1	11/25/07 18:36	HJL	2444796
Ethylbenzene	ND		1	1	11/25/07 18:36	HJL	2444796
Methyl tert-butyl ether	ND		1	1	11/25/07 18:36	HJL	2444796
Naphthalene	ND		5	1	11/25/07 18:36	HJL	2444796
Toluene	ND		1	1	11/25/07 18:36	HJL	2444796
m,p-Xylene	ND		1	1	11/25/07 18:36	HJL	2444796
o-Xylene	ND		1	1	11/25/07 18:36	HJL	2444796
Xylenes,Total	ND		1	1	11/25/07 18:36	HJL	2444796
Surr: 1,2-Dichloroethane-d4	81.3	%	74-133	1	11/25/07 18:36	HJL	2444796
Surr: 4-Bromofluorobenzene	93.1	%	74-116	1	11/25/07 18:36	HJL	2444796
Surr: Toluene-d8	95.4	%	84-112	1	11/25/07 18:36	HJL	2444796

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-3 **Collected:** 11/15/2007 10:35 **SPL Sample ID:** 07110742-03

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
TOTAL METALS BY METHOD 6010B - WATER				**MCL**	**SW6010B**	**Units: mg/L**	
Lead	ND		0.01	1	11/21/07 15:36	RJD	2443329

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	11/20/2007 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN				MCL	SW8260B	Units: ug/L	
Benzene	ND		1	1	11/25/07 19:04	HJL	2444797
Ethylbenzene	ND		1	1	11/25/07 19:04	HJL	2444797
Methyl tert-butyl ether	ND		1	1	11/25/07 19:04	HJL	2444797
Naphthalene	ND		5	1	11/25/07 19:04	HJL	2444797
Toluene	ND		1	1	11/25/07 19:04	HJL	2444797
m,p-Xylene	ND		1	1	11/25/07 19:04	HJL	2444797
o-Xylene	ND		1	1	11/25/07 19:04	HJL	2444797
Xylenes,Total	ND		1	1	11/25/07 19:04	HJL	2444797
Surr: 1,2-Dichloroethane-d4	83.9		% 74-133	1	11/25/07 19:04	HJL	2444797
Surr: 4-Bromofluorobenzene	93.3		% 74-116	1	11/25/07 19:04	HJL	2444797
Surr: Toluene-d8	94.1		% 84-112	1	11/25/07 19:04	HJL	2444797

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-4 **Collected:** 11/15/2007 10:55 **SPL Sample ID:** 07110742-04

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
TOTAL METALS BY METHOD 6010B - WATER				**MCL**	**SW6010B**	**Units: mg/L**	
Lead	ND		0.01	1	11/21/07 15:42	RJD	2443330

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	11/20/2007 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN				MCL	SW8260B	Units: ug/L	
Benzene	3400		50	50	11/27/07 3:24	HJL	2445612
Ethylbenzene	870		50	50	11/27/07 3:24	HJL	2445612
Methyl tert-butyl ether	890		50	50	11/27/07 3:24	HJL	2445612
Naphthalene	340		250	50	11/27/07 3:24	HJL	2445612
Toluene	2900		50	50	11/27/07 3:24	HJL	2445612
m,p-Xylene	1100		50	50	11/27/07 3:24	HJL	2445612
o-Xylene	670		50	50	11/27/07 3:24	HJL	2445612
Xylenes,Total	1770		50	50	11/27/07 3:24	HJL	2445612
Surr: 1,2-Dichloroethane-d4	91.4	%	74-133	50	11/27/07 3:24	HJL	2445612
Surr: 4-Bromofluorobenzene	98.7	%	74-116	50	11/27/07 3:24	HJL	2445612
Surr: Toluene-d8	98.3	%	84-112	50	11/27/07 3:24	HJL	2445612

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-5 **Collected:** 11/15/2007 12:05 **SPL Sample ID:** 07110742-05

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
TOTAL METALS BY METHOD 6010B - WATER				**MCL**	**SW6010B**	**Units: mg/L**	
Lead	0.0587		0.05	5	11/21/07 15:47	RJD	2443331

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	11/20/2007 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN				MCL	SW8260B	Units: ug/L	
Benzene	22000		100	100	11/25/07 22:50	NDG	2443510
Ethylbenzene	2500		100	100	11/25/07 22:50	NDG	2443510
Methyl tert-butyl ether	160		100	100	11/25/07 22:50	NDG	2443510
Naphthalene	ND		500	100	11/25/07 22:50	NDG	2443510
Toluene	30000		100	100	11/25/07 22:50	NDG	2443510
m,p-Xylene	10000		100	100	11/25/07 22:50	NDG	2443510
o-Xylene	4600		100	100	11/25/07 22:50	NDG	2443510
Xylenes,Total	14600		100	100	11/25/07 22:50	NDG	2443510
Surr: 1,2-Dichloroethane-d4	107	%	74-133	100	11/25/07 22:50	NDG	2443510
Surr: 4-Bromofluorobenzene	106	%	74-116	100	11/25/07 22:50	NDG	2443510
Surr: Toluene-d8	93.0	%	84-112	100	11/25/07 22:50	NDG	2443510

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
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SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-6 **Collected:** 11/15/2007 12:25 **SPL Sample ID:** 07110742-06

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
TOTAL METALS BY METHOD 6010B - WATER				**MCL**	**SW6010B**	**Units: mg/L**	
Lead	0.0141		0.01	1	11/21/07 15:52	RJD	2443332

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	11/20/2007 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN				MCL	SW8260B	Units: ug/L	
Benzene	620		10	10	11/25/07 23:20	NDG	2443511
Ethylbenzene	260		10	10	11/25/07 23:20	NDG	2443511
Methyl tert-butyl ether	19		10	10	11/25/07 23:20	NDG	2443511
Naphthalene	75		50	10	11/25/07 23:20	NDG	2443511
Toluene	1500		10	10	11/25/07 23:20	NDG	2443511
m,p-Xylene	720		10	10	11/25/07 23:20	NDG	2443511
o-Xylene	360		10	10	11/25/07 23:20	NDG	2443511
Xylenes,Total	1080		10	10	11/25/07 23:20	NDG	2443511
Surr: 1,2-Dichloroethane-d4	103	%	74-133	10	11/25/07 23:20	NDG	2443511
Surr: 4-Bromofluorobenzene	106	%	74-116	10	11/25/07 23:20	NDG	2443511
Surr: Toluene-d8	95.7	%	84-112	10	11/25/07 23:20	NDG	2443511

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
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Client Sample ID: MW-7 **Collected:** 11/15/2007 11:40 **SPL Sample ID:** 07110742-07

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
TOTAL METALS BY METHOD 6010B - WATER				**MCL**	**SW6010B**	**Units: mg/L**	
Lead	ND		0.01	1	11/21/07 16:08	RJD	2443335

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	11/20/2007 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN				**MCL**	**SW8260B**	**Units: ug/L**	
Benzene	ND		1	1	11/25/07 23:50	NDG	2443512
Ethylbenzene	ND		1	1	11/25/07 23:50	NDG	2443512
Methyl tert-butyl ether	ND		1	1	11/25/07 23:50	NDG	2443512
Naphthalene	ND		5	1	11/25/07 23:50	NDG	2443512
Toluene	ND		1	1	11/25/07 23:50	NDG	2443512
m,p-Xylene	ND		1	1	11/25/07 23:50	NDG	2443512
o-Xylene	ND		1	1	11/25/07 23:50	NDG	2443512
Xylenes,Total	ND		1	1	11/25/07 23:50	NDG	2443512
Surr: 1,2-Dichloroethane-d4	102		% 74-133	1	11/25/07 23:50	NDG	2443512
Surr: 4-Bromofluorobenzene	107		% 74-116	1	11/25/07 23:50	NDG	2443512
Surr: Toluene-d8	92.8		% 84-112	1	11/25/07 23:50	NDG	2443512

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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Client Sample ID: MW-8 **Collected:** 11/15/2007 12:55 **SPL Sample ID:** 07110742-08

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
TOTAL METALS BY METHOD 6010B - WATER				**MCL**	**SW6010B**	**Units: mg/L**	
Lead	0.0101		0.01	1	11/21/07 16:14	RJD	2443336

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	11/20/2007 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN				MCL	SW8260B	Units: ug/L	
Benzene	410		10	10	11/26/07 0:20	NDG	2443513
Ethylbenzene	1600		10	10	11/26/07 0:20	NDG	2443513
Methyl tert-butyl ether	ND		10	10	11/26/07 0:20	NDG	2443513
Naphthalene	640		50	10	11/26/07 0:20	NDG	2443513
Toluene	3200		10	10	11/26/07 0:20	NDG	2443513
m,p-Xylene	4500		10	10	11/26/07 0:20	NDG	2443513
o-Xylene	2300		10	10	11/26/07 0:20	NDG	2443513
Xylenes,Total	6800		10	10	11/26/07 0:20	NDG	2443513
Surr: 1,2-Dichloroethane-d4	107	%	74-133	10	11/26/07 0:20	NDG	2443513
Surr: 4-Bromofluorobenzene	103	%	74-116	10	11/26/07 0:20	NDG	2443513
Surr: Toluene-d8	96.6	%	84-112	10	11/26/07 0:20	NDG	2443513

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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Client Sample ID: MW-9 **Collected:** 11/15/2007 14:05 **SPL Sample ID:** 07110742-09

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
TOTAL METALS BY METHOD 6010B - WATER				**MCL**	**SW6010B**	**Units: mg/L**	
Lead	0.0412		0.01	1	11/26/07 13:01	RJD	2444193

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	11/20/2007 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN				MCL	SW8260B	Units: ug/L	
Benzene	28000		500	500	11/26/07 0:51	NDG	2443514
Ethylbenzene	2700		500	500	11/26/07 0:51	NDG	2443514
Methyl tert-butyl ether	82000		500	500	11/26/07 0:51	NDG	2443514
Naphthalene	ND		2500	500	11/26/07 0:51	NDG	2443514
Toluene	33000		500	500	11/26/07 0:51	NDG	2443514
m,p-Xylene	9100		500	500	11/26/07 0:51	NDG	2443514
o-Xylene	4200		500	500	11/26/07 0:51	NDG	2443514
Xylenes,Total	13300		500	500	11/26/07 0:51	NDG	2443514
Surr: 1,2-Dichloroethane-d4	108	%	74-133	500	11/26/07 0:51	NDG	2443514
Surr: 4-Bromofluorobenzene	99.7	%	74-116	500	11/26/07 0:51	NDG	2443514
Surr: Toluene-d8	95.6	%	84-112	500	11/26/07 0:51	NDG	2443514

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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Client Sample ID: MW-10 **Collected:** 11/15/2007 13:15 **SPL Sample ID:** 07110742-10

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
TOTAL METALS BY METHOD 6010B - WATER				**MCL**	**SW6010B**	**Units: mg/L**	
Lead	0.0483		0.01	1	11/21/07 16:24	RJD	2443337

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	11/20/2007 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN				MCL	SW8260B	Units: ug/L	
Benzene	30000		200	200	11/26/07 1:21	NDG	2443515
Ethylbenzene	11000		200	200	11/26/07 1:21	NDG	2443515
Methyl tert-butyl ether	50000		200	200	11/26/07 1:21	NDG	2443515
Naphthalene	4400		1000	200	11/26/07 1:21	NDG	2443515
Toluene	57000		200	200	11/26/07 1:21	NDG	2443515
m,p-Xylene	39000		200	200	11/26/07 1:21	NDG	2443515
o-Xylene	17000		200	200	11/26/07 1:21	NDG	2443515
Xylenes,Total	56000		200	200	11/26/07 1:21	NDG	2443515
Surr: 1,2-Dichloroethane-d4	105	%	74-133	200	11/26/07 1:21	NDG	2443515
Surr: 4-Bromofluorobenzene	106	%	74-116	200	11/26/07 1:21	NDG	2443515
Surr: Toluene-d8	92.5	%	84-112	200	11/26/07 1:21	NDG	2443515

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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Client Sample ID: MW-11 **Collected:** 11/15/2007 13:40 **SPL Sample ID:** 07110742-11

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
TOTAL METALS BY METHOD 6010B - WATER				**MCL**	**SW6010B**	**Units: mg/L**	
Lead	0.0657		0.05	5	11/21/07 16:30	RJD	2443338

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	11/20/2007 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN				MCL	SW8260B	Units: ug/L	
Benzene	30000		200	200	11/26/07 1:51	NDG	2443516
Ethylbenzene	14000		200	200	11/26/07 1:51	NDG	2443516
Methyl tert-butyl ether	1900		200	200	11/26/07 1:51	NDG	2443516
Naphthalene	4200		1000	200	11/26/07 1:51	NDG	2443516
Toluene	70000		200	200	11/26/07 1:51	NDG	2443516
m,p-Xylene	51000		200	200	11/26/07 1:51	NDG	2443516
o-Xylene	22000		200	200	11/26/07 1:51	NDG	2443516
Xylenes,Total	73000		200	200	11/26/07 1:51	NDG	2443516
Surr: 1,2-Dichloroethane-d4	106	%	74-133	200	11/26/07 1:51	NDG	2443516
Surr: 4-Bromofluorobenzene	107	%	74-116	200	11/26/07 1:51	NDG	2443516
Surr: Toluene-d8	94.7	%	84-112	200	11/26/07 1:51	NDG	2443516

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
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SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-12 **Collected:** 11/15/2007 14:25 **SPL Sample ID:** 07110742-12

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
TOTAL METALS BY METHOD 6010B - WATER				**MCL**	**SW6010B**	**Units: mg/L**	
Lead	0.0141		0.01	1	11/26/07 13:07	RJD	2444194

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	11/20/2007 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN				**MCL**	**SW8260B**	**Units: ug/L**	
Benzene	19000		50	50	11/26/07 5:53	NDG	2444272
Ethylbenzene	2200		50	50	11/26/07 5:53	NDG	2444272
Methyl tert-butyl ether	8200		50	50	11/26/07 5:53	NDG	2444272
Naphthalene	610		250	50	11/26/07 18:04	NDG	2445022
Toluene	16000		50	50	11/26/07 18:04	NDG	2445022
m,p-Xylene	6700		50	50	11/26/07 5:53	NDG	2444272
o-Xylene	3300		50	50	11/26/07 5:53	NDG	2444272
Xylenes,Total	10000		50	50	11/26/07 5:53	NDG	2444272
Surr: 1,2-Dichloroethane-d4	119	%	74-133	50	11/26/07 18:04	NDG	2445022
Surr: 1,2-Dichloroethane-d4	108	%	74-133	50	11/26/07 5:53	NDG	2444272
Surr: 4-Bromofluorobenzene	96.0	%	74-116	50	11/26/07 18:04	NDG	2445022
Surr: 4-Bromofluorobenzene	103	%	74-116	50	11/26/07 5:53	NDG	2444272
Surr: Toluene-d8	96.9	%	84-112	50	11/26/07 18:04	NDG	2445022
Surr: Toluene-d8	94.5	%	84-112	50	11/26/07 5:53	NDG	2444272

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
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Client Sample ID: MW-13 **Collected:** 11/16/2007 9:25 **SPL Sample ID:** 07110742-13

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
TOTAL METALS BY METHOD 6010B - WATER			**MCL**	**SW6010B**	**Units: mg/L**		
Lead	0.0247		0.01	1	11/21/07 16:41	RJD	2443339

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	11/20/2007 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN				MCL	SW8260B	Units: ug/L	
Benzene	4700		20	20	11/26/07 6:24	NDG	2444273
Ethylbenzene	960		20	20	11/26/07 6:24	NDG	2444273
Methyl tert-butyl ether	ND		20	20	11/26/07 6:24	NDG	2444273
Naphthalene	290		100	20	11/26/07 18:34	NDG	2445023
Toluene	3900		20	20	11/26/07 6:24	NDG	2444273
m,p-Xylene	1800		20	20	11/26/07 6:24	NDG	2444273
o-Xylene	830		20	20	11/26/07 6:24	NDG	2444273
Xylenes,Total	2630		20	20	11/26/07 6:24	NDG	2444273
Surr: 1,2-Dichloroethane-d4	119	%	74-133	20	11/26/07 18:34	NDG	2445023
Surr: 1,2-Dichloroethane-d4	110	%	74-133	20	11/26/07 6:24	NDG	2444273
Surr: 4-Bromofluorobenzene	96.9	%	74-116	20	11/26/07 18:34	NDG	2445023
Surr: 4-Bromofluorobenzene	97.8	%	74-116	20	11/26/07 6:24	NDG	2444273
Surr: Toluene-d8	97.3	%	84-112	20	11/26/07 18:34	NDG	2445023
Surr: Toluene-d8	93.5	%	84-112	20	11/26/07 6:24	NDG	2444273

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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Client Sample ID: KM017 **Collected:** 11/16/2007 8:35 **SPL Sample ID:** 07110742-14

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
TOTAL METALS BY METHOD 6010B - WATER				**MCL**	**SW6010B**	**Units: mg/L**	
Lead	0.0365		0.01	1	11/21/07 16:46	RJD	2443340

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	11/20/2007 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN				MCL	SW8260B	Units: ug/L	
Benzene	ND		1	1	11/26/07 6:54	NDG	2444274
Ethylbenzene	ND		1	1	11/26/07 6:54	NDG	2444274
Methyl tert-butyl ether	ND		1	1	11/26/07 6:54	NDG	2444274
Naphthalene	ND		5	1	11/26/07 19:05	NDG	2445024
Toluene	ND		1	1	11/26/07 6:54	NDG	2444274
m,p-Xylene	ND		1	1	11/26/07 6:54	NDG	2444274
o-Xylene	ND		1	1	11/26/07 6:54	NDG	2444274
Xylenes,Total	ND		1	1	11/26/07 6:54	NDG	2444274
Surr: 1,2-Dichloroethane-d4	116	%	74-133	1	11/26/07 19:05	NDG	2445024
Surr: 1,2-Dichloroethane-d4	111	%	74-133	1	11/26/07 6:54	NDG	2444274
Surr: 4-Bromofluorobenzene	97.5	%	74-116	1	11/26/07 19:05	NDG	2445024
Surr: 4-Bromofluorobenzene	106	%	74-116	1	11/26/07 6:54	NDG	2444274
Surr: Toluene-d8	98.9	%	84-112	1	11/26/07 19:05	NDG	2445024
Surr: Toluene-d8	92.7	%	84-112	1	11/26/07 6:54	NDG	2444274

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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SCOTT, LA 70583
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Client Sample ID: KM018 **Collected:** 11/16/2007 9:00 **SPL Sample ID:** 07110742-15

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
TOTAL METALS BY METHOD 6010B - WATER				**MCL**	**SW6010B**	**Units: mg/L**	
Lead	0.0406		0.01	1	11/21/07 16:54	RJD	2443341

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	11/20/2007 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN				MCL	SW8260B	Units: ug/L	
Benzene	350		1	1	11/25/07 11:18	NDG	2442830
Ethylbenzene	1.6		1	1	11/25/07 11:18	NDG	2442830
Methyl tert-butyl ether	110		1	1	11/25/07 11:18	NDG	2442830
Naphthalene	13		5	1	11/25/07 11:18	NDG	2442830
Toluene	3.5		1	1	11/25/07 11:18	NDG	2442830
m,p-Xylene	3		1	1	11/25/07 11:18	NDG	2442830
o-Xylene	2.5		1	1	11/25/07 11:18	NDG	2442830
Xylenes,Total	5.5		1	1	11/25/07 11:18	NDG	2442830
Surr: 1,2-Dichloroethane-d4	104	%	74-133	1	11/25/07 11:18	NDG	2442830
Surr: 4-Bromofluorobenzene	97.7	%	74-116	1	11/25/07 11:18	NDG	2442830
Surr: Toluene-d8	97.9	%	84-112	1	11/25/07 11:18	NDG	2442830

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
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Client Sample ID: DMW-1 **Collected:** 11/16/2007 8:05 **SPL Sample ID:** 07110742-16

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
TOTAL METALS BY METHOD 6010B - WATER				**MCL**	**SW6010B**	**Units: mg/L**	
Lead	ND		0.01	1	11/21/07 16:59	RJD	2443342

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	11/20/2007 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN				**MCL**	**SW8260B**	**Units: ug/L**	
Benzene	300		1	1	11/25/07 10:48	NDG	2442829
Ethylbenzene	90		1	1	11/25/07 10:48	NDG	2442829
Methyl tert-butyl ether	210		1	1	11/25/07 10:48	NDG	2442829
Naphthalene	31		5	1	11/25/07 10:48	NDG	2442829
Toluene	490		5	5	11/25/07 19:48	NDG	2443504
m,p-Xylene	270		1	1	11/25/07 10:48	NDG	2442829
o-Xylene	150		1	1	11/25/07 10:48	NDG	2442829
Xylenes,Total	420		1	1	11/25/07 10:48	NDG	2442829
Surr: 1,2-Dichloroethane-d4	94.8	%	74-133	5	11/25/07 19:48	NDG	2443504
Surr: 1,2-Dichloroethane-d4	99.2	%	74-133	1	11/25/07 10:48	NDG	2442829
Surr: 4-Bromofluorobenzene	107	%	74-116	5	11/25/07 19:48	NDG	2443504
Surr: 4-Bromofluorobenzene	98.4	%	74-116	1	11/25/07 10:48	NDG	2442829
Surr: Toluene-d8	97.4	%	84-112	5	11/25/07 19:48	NDG	2443504
Surr: Toluene-d8	97.3	%	84-112	1	11/25/07 10:48	NDG	2442829

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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Client Sample ID: DMW-2 **Collected:** 11/15/2007 15:40 **SPL Sample ID:** 07110742-17

Site: PANTRY #585

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
TOTAL METALS BY METHOD 6010B - WATER				**MCL**	**SW6010B**	**Units: mg/L**	
Lead	0.0968		0.01	1	11/21/07 17:15	RJD	2443345

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3010A	11/20/2007 17:00	SA	1.00

VOLATILE ORGANICS:METHOD 8260B+MTBE+NAPHTHALEN				MCL	SW8260B	Units: ug/L	
Benzene	8.9		1	1	11/25/07 10:17	NDG	2442828
Ethylbenzene	24		1	1	11/25/07 10:17	NDG	2442828
Methyl tert-butyl ether	ND		1	1	11/25/07 10:17	NDG	2442828
Naphthalene	11		5	1	11/25/07 10:17	NDG	2442828
Toluene	77		1	1	11/25/07 10:17	NDG	2442828
m,p-Xylene	66		1	1	11/25/07 10:17	NDG	2442828
o-Xylene	30		1	1	11/25/07 10:17	NDG	2442828
Xylenes,Total	96		1	1	11/25/07 10:17	NDG	2442828
Surr: 1,2-Dichloroethane-d4	103	%	74-133	1	11/25/07 10:17	NDG	2442828
Surr: 4-Bromofluorobenzene	97.7	%	74-116	1	11/25/07 10:17	NDG	2442828
Surr: Toluene-d8	97.7	%	84-112	1	11/25/07 10:17	NDG	2442828

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

Quality Control Documentation

LAFAYETTE LABORATORY
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Quality Control Report

ATC ASSOCIATES, INC.

14.25384.0585

Analysis: Total Metals by Method 6010B - water
Method: SW6010B
WorkOrder: 07110742
Lab Batch ID: 64893

Method Blank

RunID: ICPDV_071120D-2441665 Units: mg/L
Analysis Date: 11/21/2007 13:50 Analyst: RJD
Preparation Date: 11/20/2007 17:00 Prep By: SA Method: SW3010A

Analyte	Result	Rep Limit
Lead	ND	0.01

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
07110742-01B	MW-1
07110742-02B	MW-2
07110742-03B	MW-3
07110742-04B	MW-4
07110742-05B	MW-5
07110742-06B	MW-6
07110742-07B	MW-7
07110742-08B	MW-8
07110742-09B	MW-9
07110742-10B	MW-10
07110742-11B	MW-11
07110742-12B	MW-12
07110742-13B	MW-13
07110742-14B	KM017
07110742-15B	KM018
07110742-16B	DMW-1
07110742-17B	DMW-2

Laboratory Control Sample (LCS)

RunID: ICPDV_071120D-2441666 Units: mg/L
Analysis Date: 11/21/2007 13:55 Analyst: RJD
Preparation Date: 11/20/2007 17:00 Prep By: SA Method: SW3010A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Lead	1.000	0.9267	92.67	80	120

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 07110742-01
RunID: ICPDV_071120D-2441669 Units: mg/L
Analysis Date: 11/21/2007 14:10 Analyst: RJD
Preparation Date: 11/20/2007 17:00 Prep By: SA Method: SW3010A

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

ATC ASSOCIATES, INC.

14.25384.0585

Analysis: **Total Metals by Method 6010B - water** **WorkOrder:** **07110742**
Method: **SW6010B** **Lab Batch ID:** **64893**

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Lead	0.01650	1	0.9298	91.33	1	0.9271	91.06	0.2945	20	75	125

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
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Quality Control Report

ATC ASSOCIATES, INC.

14.25384.0585

Analysis: Volatile Organics:Method 8260B+MTBE+Naphthalene
Method: SW8260B
WorkOrder: 07110742
Lab Batch ID: R166692

Method Blank

RunID: QA_071124C-2442822 Units: ug/L
Analysis Date: 11/25/2007 3:13 Analyst: NDG
Preparation Date: 11/25/2007 3:13 Prep By: Method: SW5035

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
07110742-15A	KM018
07110742-16A	DMW-1
07110742-17A	DMW-2

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	1.0
Naphthalene	ND	5.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1.0
Xylenes,Total	ND	1.0
Surr: 1,2-Dichloroethane-d4	98.3	74-133
Surr: 4-Bromofluorobenzene	99.2	74-116
Surr: Toluene-d8	99.3	84-112

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: QA_071124C-2442820 Units: ug/L
Analysis Date: 11/25/2007 1:42 Analyst: NDG

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	50.0	50.7	101	50.0	51.4	103	1.4	33	79	124
Ethylbenzene	50.0	54.1	108	50.0	53.5	107	1.2	20	79	125
Methyl tert-butyl ether	50.0	45.5	90.9	50.0	46.6	93.3	2.5	20	77	125
Naphthalene	50.0	51.5	103	50.0	49.8	99.5	3.5	20	72	132
Toluene	50.0	48.1	96.3	50.0	47.8	95.7	0.6	27	79	124
m,p-Xylene	100	105	105	100	104	104	1.1	20	77	132
o-Xylene	50.0	53.0	106	50.0	51.8	104	2.3	20	76	127
Xylenes,Total	150	158	105	150	156	104	1.5	20	76	130
Surr: 1,2-Dichloroethane-d4	50.0	48.4	96.8	50.0	48.4	96.7	0.1	30	74	133
Surr: 4-Bromofluorobenzene	50.0	50.4	101	50.0	49.8	99.5	1.3	30	74	116
Surr: Toluene-d8	50.0	49.1	98.2	50.0	48.7	97.5	0.8	30	84	112

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

ATC ASSOCIATES, INC.

14.25384.0585

Analysis: Volatile Organics:Method 8260B+MTBE+Naphthalene
Method: SW8260B

WorkOrder: 07110742
Lab Batch ID: R166722

Method Blank

RunID: QB_071125B-2443500 Units: ug/L
Analysis Date: 11/25/2007 17:16 Analyst: NDG
Preparation Date: 11/25/2007 17:16 Prep By: Method: SW5035

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	1.0
Naphthalene	ND	5.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1.0
Xylenes,Total	ND	1.0
Surr: 1,2-Dichloroethane-d4	102.2	74-133
Surr: 4-Bromofluorobenzene	101.5	74-116
Surr: Toluene-d8	93.1	84-112

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
07110742-05A	MW-5
07110742-06A	MW-6
07110742-07A	MW-7
07110742-08A	MW-8
07110742-09A	MW-9
07110742-10A	MW-10
07110742-11A	MW-11
07110742-16A	DMW-1

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: QB_071125B-2443498 Units: ug/L
Analysis Date: 11/25/2007 15:45 Analyst: NDG

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	50.0	51.4	103	50.0	52.0	104	1.2	33	79	124
Ethylbenzene	50.0	53.3	107	50.0	51.6	103	3.2	20	79	125
Methyl tert-butyl ether	50.0	46.0	91.9	50.0	44.2	88.3	4.0	20	77	125
Naphthalene	50.0	41.9	83.8	50.0	45.5	91.0	8.2	20	72	132
Toluene	50.0	49.8	99.6	50.0	47.6	95.1	4.6	27	79	124
m,p-Xylene	100	107	107	100	104	104	3.1	20	77	132
o-Xylene	50.0	54.2	108	50.0	52.9	106	2.4	20	76	127
Xylenes,Total	150.0	161.2	107.7	150.0	156.9	104.7	2.8	20	76	130
Surr: 1,2-Dichloroethane-d4	50.0	51.1	102	50.0	51.5	103	0.9	30	74	133
Surr: 4-Bromofluorobenzene	50.0	51.8	104	50.0	49.5	99.0	4.6	30	74	116
Surr: Toluene-d8	50.0	47.3	94.6	50.0	47.0	93.9	0.7	30	84	112

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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Quality Control Report

ATC ASSOCIATES, INC.

14.25384.0585

Analysis: Volatile Organics:Method 8260B+MTBE+Naphthalene
Method: SW8260B

WorkOrder: 07110742
Lab Batch ID: R166774

Method Blank

RunID: QB_071125C-2444271 Units: ug/L
Analysis Date: 11/26/2007 5:23 Analyst: NDG
Preparation Date: 11/26/2007 5:23 Prep By: Method: SW5035

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
07110742-12A	MW-12
07110742-13A	MW-13
07110742-14A	KM017

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1.0
Xylenes,Total	ND	1.0
Surr: 1,2-Dichloroethane-d4	105.9	74-133
Surr: 4-Bromofluorobenzene	98.7	74-116
Surr: Toluene-d8	95.8	84-112

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: QB_071125C-2444269 Units: ug/L
Analysis Date: 11/26/2007 3:52 Analyst: NDG

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	50.0	49.7	99.3	50.0	49.3	98.6	0.7	33	79	124
Ethylbenzene	50.0	49.9	99.9	50.0	50.2	100	0.5	20	79	125
Methyl tert-butyl ether	50.0	44.5	88.9	50.0	42.9	85.8	3.5	20	77	125
Toluene	50.0	46.9	93.8	50.0	47.1	94.1	0.3	27	79	124
m,p-Xylene	100	99.8	99.8	100	100	100	0.5	20	77	132
o-Xylene	50.0	49.4	98.9	50.0	50.2	100	1.5	20	76	127
Xylenes,Total	150.0	149.2	99.50	150.0	150.2	100.3	0.8	20	76	130
Surr: 1,2-Dichloroethane-d4	50.0	52.3	105	50.0	50.7	101	3.1	30	74	133
Surr: 4-Bromofluorobenzene	50.0	49.4	98.8	50.0	51.8	104	4.7	30	74	116
Surr: Toluene-d8	50.0	48.3	96.7	50.0	46.9	93.8	3.1	30	84	112

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

ATC ASSOCIATES, INC.

14.25384.0585

Analysis: Volatile Organics:Method 8260B+MTBE+Naphthalene
Method: SW8260B
WorkOrder: 07110742
Lab Batch ID: R166804

Method Blank

RunID: X_071125A-2444791 Units: ug/L
Analysis Date: 11/25/2007 13:54 Analyst: HJL
Preparation Date: 11/25/2007 13:54 Prep By: Method: SW5035

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
07110742-02A	MW-2
07110742-03A	MW-3

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	1.0
Naphthalene	ND	5.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1.0
Xylenes,Total	ND	1.0
Surr: 1,2-Dichloroethane-d4	89.1	74-133
Surr: 4-Bromofluorobenzene	95.8	74-116
Surr: Toluene-d8	94.9	84-112

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: X_071125A-2444789 Units: ug/L
Analysis Date: 11/25/2007 12:30 Analyst: HJL

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	50.0	62.9	126 *	50.0	52.9	106	17.2	33	79	124
Ethylbenzene	50.0	50.4	101	50.0	48.3	96.5	4.4	20	79	125
Methyl tert-butyl ether	50.0	41.4	82.8	50.0	44.1	88.3	6.4	20	77	125
Naphthalene	50.0	47.1	94.3	50.0	46.3	92.6	1.8	20	72	132
Toluene	50.0	51.1	102	50.0	49.2	98.3	3.9	27	79	124
m,p-Xylene	100	102	102	100	97.0	97.0	4.9	20	77	132
o-Xylene	50.0	50.5	101	50.0	47.8	95.6	5.6	20	76	127
Xylenes,Total	150.0	152.5	101.5	150.0	144.8	96.50	5.1	20	76	130
Surr: 1,2-Dichloroethane-d4	50.0	40.8	81.5	50.0	43.2	86.4	5.8	30	74	133
Surr: 4-Bromofluorobenzene	50.0	48.2	96.5	50.0	47.1	94.1	2.5	30	74	116
Surr: Toluene-d8	50.0	47.3	94.6	50.0	47.8	95.7	1.1	30	84	112

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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Quality Control Report

ATC ASSOCIATES, INC.

14.25384.0585

Analysis: Volatile Organics:Method 8260B+MTBE+Naphthalene
Method: SW8260B
WorkOrder: 07110742
Lab Batch ID: R166814

Method Blank

RunID: QA_071126A-2445021 Units: ug/L
Analysis Date: 11/26/2007 17:34 Analyst: NDG
Preparation Date: 11/26/2007 17:34 Prep By: Method: SW5035

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
07110742-12A	MW-12
07110742-13A	MW-13
07110742-14A	KM017

Analyte	Result	Rep Limit
Naphthalene	ND	5.0
Toluene	ND	1.0
Surr: 1,2-Dichloroethane-d4	116.7	74-133
Surr: 4-Bromofluorobenzene	96.5	74-116
Surr: Toluene-d8	100.0	84-112

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: QA_071126A-2445019 Units: ug/L
Analysis Date: 11/26/2007 16:02 Analyst: NDG

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Naphthalene	50.0	54.4	109	50.0	49.1	98.2	10.2	20	72	132
Toluene	50.0	46.0	92.0	50.0	47.3	94.6	2.8	27	79	124
Surr: 1,2-Dichloroethane-d4	50.0	56.8	114	50.0	56.3	113	0.8	30	74	133
Surr: 4-Bromofluorobenzene	50.0	49.7	99.4	50.0	50.1	100	0.8	30	74	116
Surr: Toluene-d8	50.0	48.1	96.3	50.0	49.0	97.9	1.7	30	84	112

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

14.25384.0585

Analysis: Volatile Organics:Method 8260B+MTBE+Naphthalene
Method: SW8260B
WorkOrder: 07110742
Lab Batch ID: R166851

Method Blank

RunID: X_071126B-2445605 Units: ug/L
Analysis Date: 11/27/2007 0:07 Analyst: HJL
Preparation Date: 11/27/2007 0:07 Prep By: Method: SW5035

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
07110742-01A	MW-1
07110742-04A	MW-4

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	1.0
Naphthalene	ND	5.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1.0
Xylenes,Total	ND	1.0
Surr: 1,2-Dichloroethane-d4	103.3	74-133
Surr: 4-Bromofluorobenzene	97.0	74-116
Surr: Toluene-d8	97.6	84-112

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: X_071126B-2445603 Units: ug/L
Analysis Date: 11/26/2007 22:42 Analyst: HJL

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	50.0	51.5	103	50.0	54.7	109	6.2	33	79	124
Ethylbenzene	50.0	49.0	98.1	50.0	48.8	97.5	0.6	20	79	125
Methyl tert-butyl ether	50.0	51.0	102	50.0	51.0	102	0.0	20	77	125
Naphthalene	50.0	50.5	101	50.0	49.7	99.3	1.6	20	72	132
Toluene	50.0	47.7	95.5	50.0	46.8	93.7	1.9	27	79	124
m,p-Xylene	100	98.0	98.0	100	96.7	96.7	1.3	20	77	132
o-Xylene	50.0	51.2	102	50.0	50.2	100	1.9	20	76	127
Xylenes,Total	150.0	149.2	99.41	150.0	146.9	97.91	1.5	20	76	130
Surr: 1,2-Dichloroethane-d4	50.0	48.8	97.6	50.0	47.8	95.7	1.9	30	74	133
Surr: 4-Bromofluorobenzene	50.0	49.1	98.2	50.0	48.5	97.0	1.2	30	74	116
Surr: Toluene-d8	50.0	49.6	99.2	50.0	49.6	99.2	0.0	30	84	112

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

ATC ASSOCIATES, INC.

14.25384.0585

Analysis: **Volatile Organics:Method 8260B+MTBE+Naphthalene** **WorkOrder:** **07110742**
Method: **SW8260B** **Lab Batch ID:** **R166851**

Sample Spiked: 07110720-03
RunID: X_071126B-2445720 Units: ug/L
Analysis Date: 11/27/2007 7:09 Analyst: HJL

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	1790	500	2230	89.0	500	2200	82.0	1.59	12	77	127
Ethylbenzene	268	500	788	104	500	760	98.5	3.58	20	50	150
Methyl tert-butyl ether	930	500	1390	92.2	500	1350	83.5	3.17	20	50	150
Naphthalene	ND	500	772	154 *	500	763	153 *	1.27	20	50	150
Toluene	ND	500	482	92.5	500	478	91.8	0.743	17	71	135
m,p-Xylene	1130	1000	2150	102	1000	2110	97.4	2.25	20	50	150
o-Xylene	295	500	811	103	500	788	98.7	2.82	20	50	150
Xylenes,Total	1426	1500	2961	102.5	1500	2898	97.84	2.408	20	50	150
Surr: 1,2-Dichloroethane-d4	ND	500	464	92.8	500	468	93.6	0.870	30	74	133
Surr: 4-Bromofluorobenzene	ND	500	501	100	500	502	100	0.0842	30	74	116
Surr: Toluene-d8	ND	500	489	97.7	500	482	96.3	1.41	30	84	112

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

Sample Receipt Checklist

And

Chain of Custody

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Sample Receipt Checklist

Workorder:	**07110742**	Received By:	**CRM**
Date and Time Received:	**11/17/2007 9:00:00 AM**	Carrier name:	**FedEx-Pri Saturday Del**
Temperature:	**3.5°C**	Chilled by:	**Water Ice**

1.	**Shipping container/cooler in good condition?**	Yes ☑	No ☐	Not Present ☐
2.	**Custody seals intact on shippping container/cooler?**	Yes ☐	No ☐	Not Present ☑
3.	**Custody seals intact on sample bottles?**	Yes ☐	No ☐	Not Present ☑
4.	**Chain of custody present?**	Yes ☑	No ☐	
5.	**Chain of custody signed when relinquished and received?**	Yes ☑	No ☐	
6.	**Chain of custody agrees with sample labels?**	Yes ☑	No ☐	
7.	**Samples in proper container/bottle?**	Yes ☑	No ☐	
8.	**Sample containers intact?**	Yes ☑	No ☐	
9.	**Sufficient sample volume for indicated test?**	Yes ☑	No ☐	
10.	**All samples received within holding time?**	Yes ☑	No ☐	
11.	**Container/Temp Blank temperature in compliance?**	Yes ☑	No ☐	
12.	**Water - VOA vials have zero headspace?**	Yes ☑	No ☐	VOA Vials Not Present ☐
13.	**Water - Preservation checked upon receipt (except VOA*)?**	Yes ☑	No ☐	Not Applicable ☐

***VOA Preservation Checked After Sample Analysis**

SPL Representative: _____ **Contact Date & Time:** _____

Client Name Contacted: _____

Non Conformance Issues: _____

Client Instructions: _____

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No. 274489

07110742

page ___ of ___

Client Name: ATC ASSOCIATES
Address: 400 NORTHEAST DR KUITA COLUMBIA SC
Phone/Fax: (803) 735-0003
Client Contact: JESSE ICEEFFE Email:
Project Name/No.: 14.25 3E4 0585
Site Name: FORM ANTIM 585
Site Location: ANDERSON SC
Invoice To: Ph:

matrix: W=water SL=sludge O=oil S=soil X=other
bottle: P=plastic G=glass A=amber glass V=vial X=other
size: 1=1 liter 8=8oz 16=16oz 4=4oz 40=vial X=other
pres.: 1=HCl 3=H2SO4 2=HNO3 X=other

Requested Analysis

SAMPLE ID	DATE	TIME	comp	grab	matrix	bottle	size	pres.	Number of Containers	Brex, NO3, PH, Hrbs	Lead							
MW1	11/15/07	1120		✓	W	P/V	16/40	1/2	04	✓	✓							7
MW2		1010																4
MW3		1035																4
MW4		1055																4
MW5		1205																4
MW6		1225																4
MW7		1140																4
MW8		1255																4
MW9		1405																4
MW10		1315																4

Client/Consultant Remarks:

Laboratory remarks: NO CS (3W) (YMA-3 (W4))

Intact? ✓ Y ☐ N
Ice? ✓ Y ☐ N
Temp: 3.5

Requested TAT

Contract ☐ 72hr ☐
24hr ☐ Standard ☐
48hr ☐
Other ☐ _____

Special Reporting Requirements Results: Fax ☐ Email ☐ PDF ☐
Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☐

Special Detection Limits (specify):

PM review (initial):

1. Relinquished by Sampler:	date 11/16/07	time	2. Received by: Fed ex
3. Relinquished by: Fed ex	date 11/17/7	time 8:30	4. Received by: Miller (SPL) 9:00
5. Relinquished by:	date	time	6. Received by Laboratory:

☐ 8880 Interchange Drive
Houston, TX 77054 (713) 660-0901

☐ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

☐ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No. 274488

page ____ of ____

Client Name: ATC ASSOCIATES
Address: 400 NORTHEAST DR UNIT Q COLUMBIA SC
Phone/Fax: (803) 735-0003
Client Contact: JESSE KEEFFE Email:
Project Name/No.: 14.253844, 0585
Site Name: FMR PAJAM 585
Site Location: ALDERSON SC
Invoice To: Ph:

matrix: W=water S=soil SL=sludge O=oil X=other
bottle: P=plastic G=glass A=amber glass V=vial X=other
size: 1=1 liter 8=8oz 16=16oz 4=4oz 40=vial X=other
pres.: 1=HCl 3=H2SO4 2=HNO3 X=other

Requested Analysis

SAMPLE ID	DATE	TIME	comp	grab	matrix	bottle	size	pres.	Number of Containers	BTEX, NAPHTHALENE	LEAD							
MW11	11/15/07	1340		✓	W	P/V	16/40	1/2	04	✓	✓							4
MW12	11/15/07	1425																4
MW13	11/16/07	0925																4
KM017		0835																4
KM018		0900																4
DMW1		0805																4
DMW2	11/15/07	1540																4

Client/Consultant Remarks:

Laboratory remarks: NO ES

Intact? ✓ Y ☐ N
Ice? ✓ Y ☐ N
Temp: 35

Requested TAT

Contract ☐ 72hr ☐
24hr ☐ Standard ☐
48hr ☐
Other ☐ _____

Special Reporting Requirements Results: Fax ☐ Email ☐ PDF ☐
Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☐

Special Detection Limits (specify):

PM review (initial):

1. Relinquished by Sampler:	date 11/16/07	time	2. Received by: Fed ex
3. Relinquished by: Fed ex	date 11/17/7	time 8:30	4. Received by: (SPL) 9:00
5. Relinquished by:	date	time	6. Received by Laboratory:

☐ 8880 Interchange Drive
Houston, TX 77054 (713) 660-0901

☐ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

☐ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

FedEx Express **US Airbill** FedEx Tracking Number **8619 6067 1687**

Recipient's Copy

1 From This portion can be removed for Recipient's records.

Date 11/15/07 FedEx Tracking Number 861960671687

Sender's Name [illegible] Phone [illegible]

Company [illegible]

Address [illegible] UNIT Q

Dept./Floor/Suite/Room

City [illegible] State SC ZIP 29203

2 Your Internal Billing Reference 14253[illegible] 2585

3 To

Recipient's Name [illegible] Phone [illegible]

Company [illegible]

Recipient's Address [illegible] PKWY

We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept./Floor/Suite/Room

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City [illegible] State [illegible] ZIP [illegible]

8619 6067 1687

4a Express Package Service *Packages up to 150 lbs.*

- [x] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected. [redacted]
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.** Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate.

* To most locations.

4b Express Freight Service *Packages over 150 lbs.*

- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation.

** To most locations.

5 Packaging

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [ ] Other

* Declared value limit $500.

[redacted]

Include FedEx address in Section 3.

- [ ] HOLD Weekday at FedEx Location — Not available for FedEx First Overnight.
- [x] HOLD Saturday at FedEx Location — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

[redacted]

- [x] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg
- [ ] Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [x] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Obtain Recip. Acct. No. [ ]

[redacted]0705 [redacted]

Total Packages 1 Total Weight 58 [redacted]

Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

8 Residential Delivery Signature Options If you require a signature, check Direct or Indirect

- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. *Fee applies.*

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APPENDIX F

Disposal Manifests

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of 1

3. Emergency Response Phone

4. Waste Tracking Number: 09137

5. Generator's Name and Mailing Address
Pantry 585
1502 East Greenville St
Anderson, SC

Generator's Site Address (if different than mailing address)
ATC Columbia

Generator's Phone:

6. Transporter 1 Company Name
NuWay Industrial Service 803-957-9175

U.S. EPA ID Number
SCD987590331

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
NuWay Industrial Service
1741 Calks Ferry Road
Lexington, SC 29073

U.S. EPA ID Number
SCR000762468

Facility's Phone: 803-957-9175

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	NON-HAZARDOUS NON-REGULATED MATERIAL Oily water	001	TT	790	G.
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
In Case of Emergency Call: 803-957-9175 NIS Job #2007-392

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: X John Moneghan
Signature: X
Month Day Year: X 09 13 07

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Chris Driver
Signature:
Month Day Year: 09 13 07
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year:

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: James Lovette
Signature:
Month Day Year: 9 13 07

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

DESIGNATED FACILITY TO GENERATOR

169-BLC-O 6, 10498 (Rev. 8/06)

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone —	4. Waste Tracking Number 26965

5. Generator's Name and Mailing Address
Pantry 585
1502 East Greenville St
Anderson, SC

Generator's Site Address (if different than mailing address)
ATC Columbia

Generator's Phone:

6. Transporter 1 Company Name
NuWay Industrial Service 803-957-9175

U.S. EPA ID Number
SCD987506331

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
NuWay Industrial Service
1741 Calks Ferry Road
Lexington, SC 29073

U.S. EPA ID Number
SCR000762468

Facility's Phone: 803-957-9175

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-HAZARDOUS NON-REGULATED MATERIAL Oily water	001	TT	1,454	G.	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

In Case of Emergency Call: 803-957-9175 NIS Job #2007-392

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: JW Hall for ATC
Signature: JW Hall
Month 10 Day 11 Year 07

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Chris Oliver
Signature:
Month 10 Day 11 Year 07

Transporter 2 Printed/Typed Name
Signature
Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: James Lowe
Signature:
Month 10 Day 11 Year 07

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

MATERIAL MANIFEST

JBR Environmental Services
P. O. Box 4098
Spartanburg, SC 29305

Manifest Document No. D - 11213387

Page of

Job No. D - 11213387

Emergency Phone Number: (864) 583-2717

GENERATOR INFORMATION

Name: Pantry #585-81

US EPA ID No.

Street Address: 1502 East Greenville St, Anderson, SC

Mailing Address: ATC 400 NE Drive Suite Q Columbia, SC

Phone No. 803-735-0003

Contact: Jesse Keeffe

DESCRIPTION OF MATERIALS

	HM	USDOT Proper Shipping Name (Complete All Items for Hazardous Materials)	Hazard Class	UN/NA ID No.	Packing Group	Containers Qty	Containers Type	Total Quantity	Unit Wt./Vol.
a.		Non-Haz Solid NOS				21	DM		
b.		Non-Haz Liquid NOS				3	DM		
c.		NON HAZ SOLID NOS				2	DM	5.43 TONS	

ADDITIONAL INFORMATION		ERG No.	JBR Profile Code	Facility Use
a.	Soil		JB-0807141	APPROVED for Disposal
b.	Water		AT-1106857	/ / /
c.	DECON PLASTIC		JB-0807143	

GENERATORS CERTIFICATION

This is to certify that the above -described materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that none of the materials described above are a hazardous waste as defined by EPA 40 CFR Part 261 or any applicable state law, and unless specifically identified above, the materials contain less than 1,000 ppm total halogens and do not contain quantifiable levels (2 ppm) of PCBs as defined by EPA 40 CFR Parts 279 and 761.

Printed/Typed Name | Signature | Mo./Day/Yr.

TRANSPORTER INFORMATION

Transporter: JBR Environmental Services

Address: 210 Alice Street, Spartanburg, SC 29303

Transporter or EPA ID No.: SCR000004358 Unit No. 25

Phone: 864-583-2717

I hereby acknowledge receipt of the above-described materials for transport from the generator site listed above.

Signature: [signature] Shipment Date 11/21/07

I hereby acknowledge that the above-described materials were received from the generator site and were transported to the facility listed below.

Signature: [signature] Delivery Date 11/21/07

FACILITY INFORMATION

Facility: JBR Environmental Services

Address: 210 Alice Street, Spartanburg, SC 29303

Facility or EPA ID No.: SCR000004358

Phone: 864-583-2717

Contact: Rex Russell

I hereby acknowledge receipt of the materials covered by this manifest except for any discrepancy noted below.

Signature: [signature] Receipt Date 11-21-07

Discrepancies	Routing Codes	Handling Methods.
a.	WM-3219	
b.		
c.		

Original - Facility Retain **COPY 2 - Return to Generator** **COPY 3 - Transporter Retain** **COPY 4 - Generator Retain**

State Lead Option

UST DOCKETING 4Hech

UST JUN 05 2013 PROGRAM

PERMISSION FORM

UNDERGROUND STORAGE TANK OWNER

UST Permit #12458

I, Brent Reid Puzak, certify that I am the identified legal owner of the FORMER AH underground storage tanks for the releases reported on November 10, 1992 located at the facility identified below or serve as the authorized representative for the owner. I grant permission to the South Carolina Department of Health and Environmental Control (Agency) to secure on my behalf contractor services to conduct assessment and corrective action activities as required. The contractor(s) will be designated as my contractor for only the required site rehabilitation activities. Compensation to the contractor(s) will be from the SUPERB Account and I will have no obligation to pay the contractor(s). I understand that the Agency or its contractor will be responsible for notifying me of all activities that are necessary prior to their initiation and will promptly provide to me a copy of each environmental report. I understand that I may choose to select my own contractor at the completion of any phase of work by notifying the Underground Storage Tank Management Division in writing.

Name of Facility Former Pantry 585, 81 Food Mart Phone # _____

Street Address of Facility 1502 E. Greenville Hwy, Anderson SC

Town, City, District, Suburb ANDERSON, SC

Is the property currently leased or rented to someone? (yes or no) _____. If yes, please provide their name _____ and phone number _____ and let them know about the pending site rehabilitation activities. If vehicles or other mobile structures are parked over the monitoring wells, they should be moved before the Agency's contractor arrives at the site.

NAME of UST/property owner (Please Print): Brent Reid Puzak

Phone Number (home) 919-566-1549 (work) 901/219/7170

Signature of UST/property Owner: [signature]

Witness: Angela Hargett

Date: 5/31/13 Month May Day 31 Year 2013

Please return to: Read Miner, SCDHEC UST Division, 2600 Bull St., Columbia, SC 29201

D H E C
PROMOTE PROTECT PROSPER
Catherine B. Templeton, Director
Promoting and protecting the health of the public and the environment

NOV 19 2013

GARRY GARRISON
1002 GARRISON RD
ANDERSON SC 29625

UST 41 tech DOCKETING

Re: **Letter of Concern**
Former 81 Food Mart, 1502 E Greenville, Anderson, SC
UST Permit #12458
E-mail request received November 14, 2013
Anderson County

Dear Mr. Garrison:

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

We received a report on November 10, 1992 documenting petroleum chemicals of concern in the subsurface in the vicinity of the former underground storage tanks. Our records revealed that three underground storage tank (USTs) owned by Pantry, Inc. were removed on April 30, 1991. In response to the initial report of petroleum chemicals of concern, Pantry, Inc., as the party responsible for performing this activity under state and federal law, assessed the extent and severity of the contamination. A bid solicitation for corrective action will be published in early 2014.

The UST Division would also like to clarify for you the financial and liability issues surrounding the petroleum chemicals of concern at this facility. The release of petroleum products from the UST is qualified to receive funding from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. This means that reasonable costs up to $1,000,000 can be paid by the SUPERB Account for site rehabilitation actions associated with this release.

Section 80(C) of the SUPERB Act provides that a subsequent purchaser of property from which an UST has been removed is not responsible for site rehabilitation activities other than abatement actions necessary to eliminate any imminent threat to human health or the environment. This exemption applies to the extent that the release is eligible for compensation from the SUPERB Account, provided that the person allows reasonable access to the property for rehabilitation activities, and does not or has not had any familial, financial, or other interest with the person who owned or operated the UST. This applies equally to subsequent lenders or to those who would acquire this property through foreclosure in the future.

The Division is not aware of any laws or regulations that prohibit the use or development of properties where a petroleum release has occurred. Any future work required by the Agency should not cause any damage to the building, disrupt deliveries, prevent access to customers, or block main access routes. To further assure you, any required activities associated with the petroleum release would be performed by a SC Certified Site Rehabilitation Contractor who maintains specific levels of insurance coverage for General and Professional Liability and Pollution/Property Damage. Such coverage is required by Section IV of the SUPERB Site Rehabilitation and Fund Access Regulations R. 61-98.

If you have any questions, please contact me at (803) 898-0608. I can also be reached by email at minerrs@dhec.sc.gov.

Sincerely,

Read S Miner

Read S. Miner, P.G., Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Brent Puzak, Pantry, Inc., PO Box 1410, Sanford, NC 27331-1410
Technical File

Cardno ATC
Shaping the Future

UST FEB 0 3 2014 DIVISION

UST DOCKETING

Cardno ATC

400 Northeast Drive
Unit Q
Columbia, SC 29203

Phone **+1 803 735 0003**
Fax +1 803 735 0443
www.cardno.com

www.cardnoatc.com

January 31, 2013

Mr. Reed Miner
SCDHEC
2600 Bull Street
Columbia, SC 29203

Re: Emergency Response Report to CA 43167
Former Pantry 585 (Former 81 Food Mart), Site ID 12458

Dear Mr. Miner;

The initial response was conducted on February 3, 2012, and included ATC personnel mobilization from Columbia, SC and A&D Environmental (ATC's subcontractor) personnel mobilization from Lexington, SC. ATC used an explosimeter to measure the LEL percent at three storm sewer manway locations identified on the attached site map as SD-2, SD-4, and SD-5. The explosimeter detected oxygen at 20.9% and a LEL of 0% at each of the three manway locations. Absorbent booms were placed in the same manways to absorb the petroleum sheen before it entered the creek outfall located south of the CVS drug store. Booms were also placed at the creek outfall.

Three to seven storm drain locations (SD-1, SD-2, SD-3, SD-4, SD-5, SD-6, SD-7 and Outfall) were assessed after the original response was conducted. The location of the storm drains is provided on Figure 1. After the initial visit, four weekly visits were conducted by Cardno. Site visits were then conducted twice per month for 16 visits, once per month for 8 visits and every two months for 1 visit.

Vapors were assessed using either an explosimeter or PID at three to seven locations on the site and adjacent properties. The tip of the OVA probe was inserted into each manway as far as the technician could reach and the reading recorded. The explosimeter readings were collected by inserting a flexible tube into each storm drain to about 6 inches above the storm water and the reading recorded. The dates and readings at each storm drain location are presented in the attached Field Data Table. During each site visit, boom conditions were checked and an order for their replacement to a subcontractor was made as needed. A&D was contracted to collect and dispose of the booms nine times. The collection dates are presented in the attached Boom Replacement Table. Disposal manifests for each collection date is also attached.

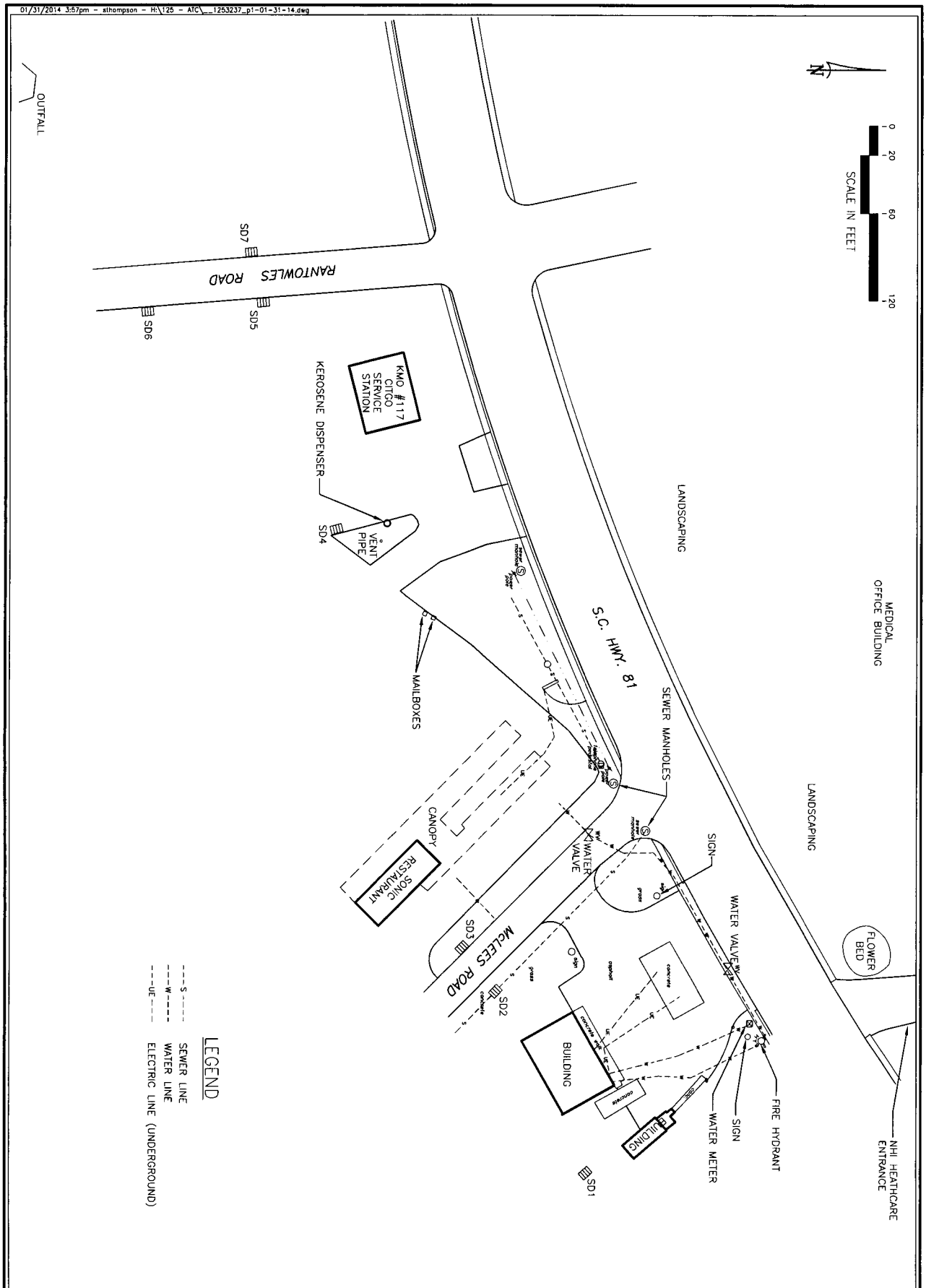
None of the OVA readings exceeded 0 ppm and none of the explosimeter readings exceeded 2 %. Cardno recommends that AFVR activities continue on the subject property to prevent future discharges.

If you have any questions please call me at 803-735-0003 or email Fred.Lyke@Cardno.com.

Best regards,
Cardno ATC

Fred Lyke P.G.
Branch Manager

01/31/2014 3:57pm - sthompson - H:\125 - ATC__1253237_p1-01-31-14.dwg



NOTES:

TITLE **FIGURE 1** UST PERMIT #12458

SITE MAP
PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

ATC ASSOCIATES INC.
Columbia, South Carolina 29203 (803) 735-0003 FAX (803) 735-0443

CAD FILE	TYPE CODE	PREP. BY	REV. BY	SCALE	DATE	PROJECT NO.
1253237.dwg		FL		1" = 60'	01-31-2014	89.25384.0585

Field Data Table
Pantry No. 585 (81 Food Mart)
1502 E. Greenville Hwy., Anderson, South Carolina
UST No. 12458

Date	Instrument	SD 1	SD 2	SD 3	SD 4	SD 5	SD 6	SD 7	Out Fall
2/3/2012	LEL	NM	0%	NM	0%	0%	NM	NM	NM
2/9/2012	OVA	0	0	0	0	0	0	0	0
2/17/2012	LEL	0%	0%	0%	0%	0%	0%	0%	0%
2/24/2012	LEL	0%	0%	0%	0%	0%	0%	0%	0%
3/6/2012	OVA	0	0	0	0	0	0	0	0
3/15/2012	OVA	0	0	0	0	0	0	0	0
3/22/2012	OVA	0	0	0	0	0	0	0	0
4/10/2012	OVA	0	0	0	0	0	0	0	0
4/19/2012	OVA	0	0	0	0	0	0	0	0
5/1/2012	OVA	0	0	0	0	0	0	0	0
5/10/2012	OVA	0	0	0	0	0	0	0	0
5/18/2012	OVA	0	0	0	0	0	0	0	0
6/8/2012	OVA	0	0	0	0	0	0	0	0
6/28/2012	OVA	0	0	0	0	0	0	0	0
7/12/2012	OVA	0	0	0	0	0	0	0	0
7/25/2012	OVA	0	0	0	0	0	0	0	0
8/10/2012	LEL	NM	2%	NM	2%	2%	NM	NM	NM
8/22/2012	LEL	0%	0%	0%	0%	0%	0%	0%	0%
9/7/2012	LEL	NM	0%	NM	0%	0%	NM	NM	NM
9/20/2012	LEL	0%	0%	0%	0%	0%	0%	0%	0%
10/9/2012	LEL	NM	0%	NM	0%	0%	NM	NM	NM
10/30/2012	LEL	NM	0%	NM	0%	0%	NM	NM	NM
11/30/2012	LEL	0%	0%	0%	0%	0%	0%	0%	0%
12/20/2012	OVA	0	0	0	0	0	0	0	0
1/31/2013	LEL	0%	0%	0%	0%	0%	0%	0%	0%
2/27/2013	LEL	0%	0%	0%	0%	0%	0%	0%	0%
3/15/2013	LEL	0%	0%	0%	0%	0%	0%	0%	0%
4/2/2013	LEL	0%	0%	0%	0%	0%	0%	0%	0%
5/10/2013	LEL	0%	0%	0%	0%	0%	0%	0%	0%
6/28/2013	LEL	0%	0%	0%	0%	0%	0%	0%	0%

* OVA OVA = 0 PPM

* Explosimeter LEL = 0 %

Boom Replacement Table
Pantry No. 585 (81 Food Mart)
1502 E. Greenville Hwy., Anderson, South Carolina
UST No. 12458

Date	Subcontractor Cost	Cost
4/11/2012	A&D Environmental Services (SC) LLC	$3,953.05
5/31/2012	A&D Environmental Services (SC) LLC	$1,328.98
6/30/2012	A&D Environmental Services (SC) LLC	$1,488.20
7/31/2012	A&D Environmental Services (SC) LLC	$422.80
8/31/2012	A&D Environmental Services (SC) LLC	$324.68
9/30/2012	A&D Environmental Services (SC) LLC	$478.80
10/31/2012	A&D Environmental Services (SC) LLC	$885.50
12/31/2012	A&D Environmental Services (SC) LLC	$877.80
9/27/2013	A&D Environmental Services (SC) LLC	$355.95

* Manifest attached

CLIENT : ATC Columbia					**CLIENT NAME: ATC Columbia**
PROJECT : Anderson, SC Emergency Response					**CLIENT CONTACT: Fred Lyke**
A&D (SC) Job #20308	**A&D (SC) Proposal**				**CLIENT PHONE:**
Date: 2/3/2012					
PERSONNEL	UNITS	RATE	EACH	EXTENSION	**COMMENTS: Received call at 4:30pm - began mobilization**
Site Foreman	HR	$60.00		$0.00	Time Left Office : 5:30pm
Ashley Johnson	OT	$90.00	7.00	$630.00	Time Arrived at Job Site: 8:30pm
Technician	HR	$50.00		$0.00	Leave for Lunch: n/a
Matt Hardin	OT	$75.00	7.00	$525.00	Arrive back to Job Site: n/a
					Time Left Job site for the day: 9:30pm
					Time arrived back at Office: 12:30am
					WORK SUMMARY:
EQUIPMENT & SUPPLIES					Anderson, SC Emergency Response
Service Truck	Day	$120.00	1.00	$120.00	Placed booms around the affected area.
Booms	Section	$50.00	9.00	$450.00	
DISPOSAL					
				$0.00	
Sub Total	Each			$1,725.00	
13% Energy Recovery Fee	Each	$1,725.00	0.13	$224.25	
TOTAL TASK EXPENDITURE				$1,949.25	

CLIENT SIGNATURE _____

I hereby acknowledge the satisfactory completion of the above described work.

COMMENTS:

CLIENT : ATC Columbia					**CLIENT NAME: ATC Columbia**
PROJECT : Anderson, SC Emergency Response					**CLIENT CONTACT: Fred Lyke**
A&D (SC) Job #20308	**A&D (SC) Proposal**				**CLIENT PHONE:**
Date: 2/17/2012					
PERSONNEL	UNITS	RATE	EACH	EXTENSION	**COMMENTS: Received call at 4:30pm - began mobilization**
Technician	HR	$50.00	2.50	$125.00	Time Left Office : 5:30pm
Shane Florian	OT	$75.00		$0.00	Time Arrived at Job Site: 8:30pm
					Leave for Lunch: n/a
					Arrive back to Job Site: n/a
					Time Left Job site for the day: 9:30pm
					Time arrived back at Office: 12:30am
					WORK SUMMARY:
EQUIPMENT & SUPPLIES					Anderson, SC Emergency Response
Service Truck	Day	$120.00	0.50	$60.00	Placed booms around the affected area.
Booms	Section	$50.00	4.00	$200.00	
DISPOSAL					
				$0.00	
Sub Total	Each			$385.00	
13% Energy Recovery Fee	Each	$385.00	0.13	$50.05	
TOTAL TASK EXPENDITURE				$435.05	

CLIENT SIGNATURE _____

I hereby acknowledge the satisfactory completion of the above described work.

COMMENTS:

A&D Environmental Services — Bill of Lading / Material Manifest

A&D Job No:	Generator ID Number	Page 1 of	Emergency Response Phone	Tracking Number
20308	CESQG	1	800-434-7750	07001

Generator's Name and Mailing Address: ATC Columbia, 1502 East Greenville St, Anderson, SC

Generator's site address (if different from mailing address):

Transporter 1 ☐ 2 ☐ Company Name: **A&D Environmental Services, Inc.** — US EPA ID No: NCD98623222

Transporter 1 ☒ 2 ☐ Company Name: **A&D Environmental Services (SC), LLC** — US EPA ID No: SCD987598331

☒ Designated Facility	☐ Designated Facility	☐ Designated Facility	☐ Designated Facility	☐ Designated Facility
A&D Environmental Services, Inc. 2718 Uwharrie Road Archdale, NC 27263 336-434-7750 NCD986232221	A&D Environmental Services, Inc. 3149 Lear Drive Burlington, NC 27215 336-229-0058 NCR000138628	A&D Environmental Services (SC), LLC 1915 Brentwood Street High Point, NC 27260 336-882-8000 NCR000002501	A&D Environmental Services (SC), LLC 1741 Calks Ferry Road Lexington, SC 29073 803-957-9175 SCD987598331	A&D Environmental Services (SC), LLC 305 B South Main Street Mauldin, SC 29662 803-967-3500 SCR000765677

HM	Hazardous Materials Shipping Name and Description (if applicable)	No.	Type	QTY	Wt/Vol	Profile Number
	Non Hazardous Non Regulated Material oily debris	001	DM	20	P	

	Petroleum Products for Recycle		No.	Type	QTY	Wt/Vol	Profile Number
X	NA1993, Diesel fuel, 3, III	ERG# 128					
X	NA1993, Fuel oil (No.1,2,4,5 or 6), 3, III	ERG# 128					
X	UN1203, Gasoline, 3, II	ERG# 128					
X	NA1270, Petroleum Oil, 3, III	ERG# 128					

Universal Waste Lamps, Batteries, Ballasts, and Electronics for Recycle

HM	No.	Type	Est. Wt.	Count	Shipping Name and Description (if applicable)		Common Name	Discrepancy
X					RQ, UN2809, Mercury contained in manufactured articles, 8, III	ERG# 172	Mercury Containing Articles	
X					RQ, UN2809, Mercury, 8, III	ERG# 172	Mercury	
X					RQ, UN3432, Polychlorinated biphenyls, solid, 9, II	ERG# 171	TSCA Exempt PCB Lamp Ballasts	
X					UN2800, Batteries, wet, nonspillable, 8, III	ERG# 154	Sealed Lead Acid Batteries	
X					UN2794, Batteries, wet, filled with acid, 8, III	ERG# 154	Lead Acid Batteries	
X					UN2795, Batteries, wet, filled with alkali, 8, III	ERG# 154	Wet NiCad Batteries	
X					UN3090, Lithium batteries, 9, II	ERG# 138	Lithium Batteries	
X					UN3028, Batteries, dry, containing potassium hydroxide solid, 8, III	ERG# 154	Alkaline Batteries	
X					UN3028, Batteries, dry, containing potassium hydroxide solid, 8, III	ERG# 154	NiCad Batteries	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Fluorescent lamps 4' or <	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Fluorescent lamps 4' or >	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Circular/U-tube lamps	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Compact Lamps	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Shattershield	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		HID/MV/UV Lamps	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Incandescent Lamps	
					Non-PCB Light Ballasts for Recycle (Not DOT-Regulated)		Non-PCB Light Ballasts	
					Electronic Equipment for Recycle (Not DOT-Regulated)		Electronics	

Generator's Certification: This is to certify that the above-named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that none of the materials described above are a hazardous waste as defined by EPA 40CFR Part 261 or any applicable state law, and unless specifically identified above the materials contain less than 1,000 ppm total halogens and do not contain quantifiable levels (2ppm) of PCBs as defined by EPA 40 CFR Parts 279 and 761.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
Shane P. Florian	[signature]	2	17	12

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
Shane P. Florian	[signature]	2	17	12

Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

Discrepancy Indication / Additional Information: Month Day Year

Designated Facility Certification: I hereby acknowledge receipt of the materials covered by this manifest except for any discrepancy indicated above.

Printed/Typed Name	Signature	Month	Day	Year

TRANSPORTER #1

CLIENT : ATC Columbia					**CLIENT NAME: ATC Columbia**
PROJECT : Anderson, SC Emergency Response					**CLIENT CONTACT: Fred Lyke**
A&D (SC) Job #20308	**A&D (SC) Proposal**				**CLIENT PHONE:**
Date: 2/27/2012					
PERSONNEL	UNITS	RATE	EACH	EXTENSION	**COMMENTS: Received call at 4:30pm - began mobilization**
Technician	HR	$50.00	2.00	$100.00	Time Left Office : 5:30pm
Shane Florian	OT	$75.00		$0.00	Time Arrived at Job Site: 8:30pm
					Leave for Lunch: n/a
					Arrive back to Job Site: n/a
					Time Left Job site for the day: 9:30pm
					Time arrived back at Office: 12:30am
					WORK SUMMARY:
EQUIPMENT & SUPPLIES					Anderson, SC Emergency Response
Service Truck	Day	$120.00	0.50	$60.00	Placed booms around the affected area.
Booms	Section	$50.00		$0.00	
DISPOSAL					
				$0.00	
Sub Total	Each			$160.00	
13% Energy Recovery Fee	Each	$160.00	0.13	$20.80	
TOTAL TASK EXPENDITURE				$180.80	

CLIENT SIGNATURE _____

I hereby acknowledge the satisfactory completion of the above described work.

COMMENTS:

CLIENT : ATC Columbia					**CLIENT NAME: ATC Columbia**
PROJECT : Anderson, SC Emergency Response					**CLIENT CONTACT: Fred Lyke**
A&D (SC) Job #20308	**A&D (SC) Proposal**				**CLIENT PHONE:**
Date: 3/2/2012					
PERSONNEL	UNITS	RATE	EACH	EXTENSION	**COMMENTS: Received call at 4:30pm - began mobilization**
Technician	HR	$50.00	3.00	$150.00	Time Left Office : 5:30pm
Shane Florian	OT	$75.00		$0.00	Time Arrived at Job Site: 8:30pm
					Leave for Lunch: n/a
					Arrive back to Job Site: n/a
					Time Left Job site for the day: 9:30pm
					Time arrived back at Office: 12:30am
					WORK SUMMARY:
EQUIPMENT & SUPPLIES					Anderson, SC Emergency Response
Service Truck	Day	$120.00	0.50	$60.00	Placed booms around the affected area.
Booms	Section	$50.00	4.00	$200.00	
Drum	Each	$45.00	1.00	$45.00	
DISPOSAL					
				$0.00	
Sub Total	Each			$455.00	
14% Energy Recovery Fee	Each	$455.00	0.14	$63.70	
TOTAL TASK EXPENDITURE				$518.70	

CLIENT SIGNATURE _____

I hereby acknowledge the satisfactory completion of the above described work.

COMMENTS:

CLIENT : ATC Columbia					**CLIENT NAME: ATC Columbia**
PROJECT : Anderson, SC Emergency Response					**CLIENT CONTACT: Fred Lyke**
A&D (SC) Job #20308	**A&D (SC) Proposal**				**CLIENT PHONE:**
Date: 3/8/2012					
PERSONNEL	UNITS	RATE	EACH	EXTENSION	**COMMENTS: Received call at 4:30pm - began mobilization**
Technician	HR	$50.00	2.50	$125.00	Time Left Office : 5:30pm
Shane Florian	OT	$75.00		$0.00	Time Arrived at Job Site: 8:30pm
					Leave for Lunch: n/a
					Arrive back to Job Site: n/a
					Time Left Job site for the day: 9:30pm
					Time arrived back at Office: 12:30am
					WORK SUMMARY:
EQUIPMENT & SUPPLIES					Anderson, SC Emergency Response
Service Truck	Day	$120.00	0.50	$60.00	Placed booms around the affected area.
Booms	Section	$50.00	4.00	$200.00	
Drum	Each	$45.00	1.00	$45.00	
DISPOSAL					
				$0.00	
Sub Total	Each			$430.00	
14% Energy Recovery Fee	Each	$430.00	0.14	$60.20	
TOTAL TASK EXPENDITURE				$490.20	

CLIENT SIGNATURE _____

I hereby acknowledge the satisfactory completion of the above described work.

COMMENTS:

A&D Environmental Services — Bill of Lading / Material Manifest

A&D Job No:	Generator ID Number	Page 1 of	Emergency Response Phone	Tracking Number
20308	CESQG	1	800-434-7750	07006

Generator's Name and Mailing Address
ATC Columbia
1502 East Greenville St
Anderson, SC

Generator's site address (if different from mailing address)

Transporter 1 ☐ 2 ☐ Company Name **A&D Environmental Services, Inc.** US EPA ID No: **NCD98623222**

Transporter 1 ☒ 2 ☐ Company Name **A&D Environmental Services (SC), LLC** US EPA ID No: **SCD987598331**

☒ Designated Facility	☐ Designated Facility	☐ Designated Facility	☐ Designated Facility	☒ Designated Facility
A&D Environmental Services, Inc. 2718 Uwharrie Road Archdale, NC 27263 336-434-7750 NCD986232221	A&D Environmental Services, Inc. 3149 Lear Drive Burlington, NC 27215 336-229-0058 NCR000138628	A&D Environmental Services (SC), LLC 1915 Brentwood Street High Point, NC 27260 336-882-8000 NCR000002501	A&D Environmental Services (SC), LLC 1741 Calks Ferry Road Lexington, SC 29073 803-957-9175 SCD987598331	A&D Environmental Services (SC), LLC 305 B South Main Street Mauldin, SC 29662 803-967-3500 SCR000765677

HM	Hazardous Materials Shipping Name and Description (if applicable)	No.	Type	QTY	Wt/Vol	Profile Number
	Non Hardous Non Regulated Material oily debris	001	DM	20	P	

	Petroleum Products for Recycle		No.	Type	QTY	Wt/Vol	Profile Number
X	NA1993, Diesel fuel, 3, III	ERG# 128					
X	NA1993, Fuel oil (No.1,2,4,5 or 6), 3, III	ERG# 128					
X	UN1203, Gasoline, 3, II	ERG# 128					
X	NA1270, Petroleum Oil, 3, III	ERG# 128					

Universal Waste Lamps, Batteries, Ballasts, and Electronics for Recycle

HM	No.	Type	Est. Wt.	Count	Shipping Name and Description (if applicable)		Common Name	Discrepancy
X					RQ, UN2809, Mercury contained in manufactured articles, 8, III	ERG# 172	Mercury Containing Articles	
X					RQ, UN2809, Mercury, 8, III	ERG# 172	Mercury	
X					RQ, UN3432, Polychlorinated biphenyls, solid, 9, II	ERG# 171	TSCA Exempt PCB Lamp Ballasts	
X					UN2800, Batteries, wet, nonspillable, 8, III	ERG# 154	Sealed Lead Acid Batteries	
X					UN2794, Batteries, wet, filled with acid, 8, III	ERG# 154	Lead Acid Batteries	
X					UN2795, Batteries, wet, filled with alkali, 8, III	ERG# 154	Wet NiCad Batteries	
X					UN3090, Lithium batteries, 9, II	ERG# 138	Lithium Batteries	
X					UN3028, Batteries, dry, containing potassium hydroxide solid, 8, III	ERG# 154	Alkaline Batteries	
X					UN3028, Batteries, dry, containing potassium hydroxide solid, 8, III	ERG# 154	NiCad Batteries	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Fluorescent lamps 4' or <	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Fluorescent lamps 4' or >	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Circular/U-tube lamps	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Compact Lamps	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Shattershield	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		HID/MV/UV Lamps	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Incandescent Lamps	
					Non-PCB Light Ballasts for Recycle (Not DOT-Regulated)		Non-PCB Light Ballasts	
					Electronic Equipment for Recycle (Not DOT-Regulated)		Electronics	

Generator's Certification: This is to certify that the above-named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that none of the materials described above are a hazardous waste as defined by EPA 40CFR Part 261 or any applicable state law, and unless specifically identified above the materials contain less than 1,000 ppm total halogens and do not contain quantifiable levels (2ppm) of PCBs as defined by EPA 40 CFR Parts 279 and 761.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
Shane P Florian (BH of ATC)	[signature]	3	2	12

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
Shane P. Florian	[signature]	3	2	12

Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

Discrepancy Indication / Additional Information:

		Month	Day	Year

Designated Facility Certification: I hereby acknowledge receipt of the materials covered by this manifest except for any discrepancy indicated above.

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[signature]	3	2	12

CLIENT : ATC Columbia					**CLIENT NAME: ATC Columbia**
PROJECT : Anderson, SC Emergency Response					**CLIENT CONTACT: Fred Lyke**
A&D (SC) Job #20308	**A&D (SC) Proposal**				**CLIENT PHONE:**
Date: 3/8/2012					
PERSONNEL	UNITS	RATE	EACH	EXTENSION	**COMMENTS: Received call at 4:30pm - began mobilization**
Technician	HR	$50.00	2.50	$125.00	Time Left Office : 5:30pm
Shane Florian	OT	$75.00		$0.00	Time Arrived at Job Site: 8:30pm
					Leave for Lunch: n/a
					Arrive back to Job Site: n/a
					Time Left Job site for the day: 9:30pm
					Time arrived back at Office: 12:30am
					WORK SUMMARY:
EQUIPMENT & SUPPLIES					Anderson, SC Emergency Response
Service Truck	Day	$120.00	0.50	$60.00	Placed booms around the affected area.
Booms	Section	$50.00	4.00	$200.00	
Drum	Each	$45.00	1.00	$45.00	
DISPOSAL					
				$0.00	
Sub Total	Each			$430.00	
14% Energy Recovery Fee	Each	$430.00	0.14	$60.20	
TOTAL TASK EXPENDITURE				$490.20	

CLIENT SIGNATURE _____

I hereby acknowledge the satisfactory completion of the above described work.

COMMENTS:

A&D Environmental Services — Bill of Lading / Material Manifest

A&D Job No:	Generator ID Number	Page 1 of	Emergency Response Phone	Tracking Number
20308	CESQG	1	800-434-7750	97008

Generator's Name and Mailing Address
ATC Columbia
1502 E. Greenville St
Anderson, SC

Generator's site address (if different from mailing address)

Transporter 1 ☐ 2 ☐ Company Name **A&D Environmental Services, Inc.** US EPA ID No: **NCD98623222**

Transporter 1 ☒ 2 ☐ Company Name **A&D Environmental Services (SC), LLC** US EPA ID No: **SCD987598331**

☒ Designated Facility	☐ Designated Facility	☐ Designated Facility	☐ Designated Facility	☒ Designated Facility
A&D Environmental Services, Inc. 2718 Uwharrie Road Archdale, NC 27263 336-434-7750 NCD986232221	A&D Environmental Services, Inc. 3149 Lear Drive Burlington, NC 27215 336-229-0058 NCR000138628	A&D Environmental Services (SC), LLC 1915 Brentwood Street High Point, NC 27260 336-882-8000 NCR000002501	A&D Environmental Services (SC), LLC 1741 Calks Ferry Road Lexington, SC 29073 803-957-9175 SCD987598331	A&D Environmental Services (SC), LLC 305 B South Main Street Mauldin, SC 29662 803-967-3500 SCR000765677

HM	Hazardous Materials Shipping Name and Description (if applicable)	No.	Type	QTY	Wt/Vol	Profile Number
	non Hazardous Non Regulated Material oily debris	001	DM	30	P	

	Petroleum Products for Recycle		No.	Type	QTY	Wt/Vol	Profile Number
X	NA1993, Diesel fuel, 3, III	ERG# 128					
X	NA1993, Fuel oil (No.1,2,4,5 or 6), 3, III	ERG# 128					
X	UN1203, Gasoline, 3, II	ERG# 128					
X	NA1270, Petroleum Oil, 3, III	ERG# 128					

Universal Waste Lamps, Batteries, Ballasts, and Electronics for Recycle

HM	No.	Type	Est. Wt.	Count	Shipping Name and Description (if applicable)		Common Name	Discrepancy
X					RQ, UN2809, Mercury contained in manufactured articles, 8, III	ERG# 172	Mercury Containing Articles	
X					RQ, UN2809, Mercury, 8, III	ERG# 172	Mercury	
X					RQ, UN3432, Polychlorinated biphenyls, solid, 9, II	ERG# 171	TSCA Exempt PCB Lamp Ballasts	
X					UN2800, Batteries, wet, nonspillable, 8, III	ERG# 154	Sealed Lead Acid Batteries	
X					UN2794, Batteries, wet, filled with acid, 8, III	ERG# 154	Lead Acid Batteries	
X					UN2795, Batteries, wet, filled with alkali, 8, III	ERG# 154	Wet NiCad Batteries	
X					UN3090, Lithium batteries, 9, II	ERG# 138	Lithium Batteries	
X					UN3028, Batteries, dry, containing potassium hydroxide solid, 8, III	ERG# 154	Alkaline Batteries	
X					UN3028, Batteries, dry, containing potassium hydroxide solid, 8, III	ERG# 154	NiCad Batteries	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Fluorescent lamps 4' or <	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Fluorescent lamps 4' or >	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Circular/U-tube lamps	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Compact Lamps	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Shattershield	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		HID/MV/UV Lamps	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Incandescent Lamps	
					Non-PCB Light Ballasts for Recycle (Not DOT-Regulated)		Non-PCB Light Ballasts	
					Electronic Equipment for Recycle (Not DOT-Regulated)		Electronics	

Generator's Certification: This is to certify that the above-named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that none of the materials described above are a hazardous waste as defined by EPA 40CFR Part 261 or any applicable state law, and unless specifically identified above the materials contain less than 1,000 ppm total halogens and do not contain quantifiable levels (2ppm) of PCBs as defined by EPA 40 CFR Parts 279 and 761.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
Shane P. Florian	[signature]	3	8	12

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
Shane P. Florian	[signature]	3	8	12

Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

Discrepancy Indication / Additional Information:

Month	Day	Year

Designated Facility Certification: I hereby acknowledge receipt of the materials covered by this manifest except for any discrepancy indicated above.

Printed/Typed Name	Signature	Month	Day	Year
[signature]	[signature]	3	8	12

DESIGNATED FACILITY TO GENERATOR

CLIENT : ATC Columbia	**CLIENT NAME: ATC Columbia**
PROJECT : Anderson, SC Emergency Response	**CLIENT CONTACT: Fred Lyke**
A&D (SC) Job #20308 A&D (SC) Proposal	**CLIENT PHONE:**
Date: 3/15/2012	

PERSONNEL	UNITS	RATE	EACH	EXTENSION	**COMMENTS: Received call at 4:30pm - began mobilization**
Technician	HR	$50.00	2.50	$125.00	Time Left Office : 5:30pm
Shane Florian	OT	$75.00		$0.00	Time Arrived at Job Site: 8:30pm
					Leave for Lunch: n/a
					Arrive back to Job Site: n/a
					Time Left Job site for the day: 9:30pm
					Time arrived back at Office: 12:30am
					WORK SUMMARY:
EQUIPMENT & SUPPLIES					Anderson, SC Emergency Response
Service Truck	Day	$120.00	0.50	$60.00	Placed booms around the affected area.
Booms	Section	$50.00		$0.00	
Drum	Each	$45.00		$0.00	
DISPOSAL					
				$0.00	
Sub Total	Each			$185.00	
14% Energy Recovery Fee	Each	$185.00	0.14	$25.90	
TOTAL TASK EXPENDITURE				$210.90	

CLIENT SIGNATURE _____

I hereby acknowledge the satisfactory completion of the above described work.

COMMENTS:

CLIENT : ATC Columbia
PROJECT : Anderson, SC Emergency Response
A&D (SC) Job #20308 **A&D (SC) Proposal**
Date: 3/26/2012

CLIENT NAME: ATC Columbia
CLIENT CONTACT: Fred Lyke
CLIENT PHONE:

PERSONNEL	UNITS	RATE	EACH	EXTENSION	**COMMENTS: Received call at 4:30pm - began mobilization**
Technician	HR	$50.00	1.75	$87.50	Time Left Office : 5:30pm
Shane Florian	OT	$75.00		$0.00	Time Arrived at Job Site: 8:30pm
					Leave for Lunch: n/a
					Arrive back to Job Site: n/a
					Time Left Job site for the day: 9:30pm
					Time arrived back at Office: 12:30am
					WORK SUMMARY:
EQUIPMENT & SUPPLIES					Anderson, SC Emergency Response
Service Truck	Day	$120.00	0.50	$60.00	Placed booms around the affected area.
Booms	Section	$50.00		$0.00	
Drum	Each	$45.00		$0.00	
DISPOSAL					
				$0.00	
Sub Total	Each			$147.50	
14% Energy Recovery Fee	Each	$147.50	0.14	$20.65	
TOTAL TASK EXPENDITURE				$168.15	

CLIENT SIGNATURE _____
I hereby acknowledge the satisfactory completion of the above described work.
COMMENTS:

CLIENT : ATC Columbia					**CLIENT NAME: ATC Columbia**
PROJECT : Anderson, SC Emergency Response					**CLIENT CONTACT: Fred Lyke**
A&D (SC) Job #20308	**A&D (SC) Proposal**				**CLIENT PHONE:**
Date: 4/16/2012					
PERSONNEL	UNITS	RATE	EACH	EXTENSION	**COMMENTS:**
Technician	HR	$50.00	3.00	$150.00	Time Left Office :
Shane Florian	OT	$75.00		$0.00	Time Arrived at Job Site:
					Leave for Lunch: n/a
					Arrive back to Job Site: n/a
					Time Left Job site for the day:
					Time arrived back at Office:
					WORK SUMMARY:
EQUIPMENT & SUPPLIES					
Service Truck	Day	$120.00	0.50	$60.00	Placed booms around the affected area.
Booms	Section	$50.00	1.00	$50.00	
55-Gallon Drum	Each	$40.00	1.00	$40.00	
DISPOSAL					
Non-Hazardous Waste	Drum	$60.00	1.00	$60.00	
Sub Total	Each			$360.00	
16% Energy Recovery Fee	Each	$360.00	0.16	$57.60	
TOTAL TASK EXPENDITURE				$417.60	

CLIENT SIGNATURE _____

I hereby acknowledge the satisfactory completion of the above described work.

COMMENTS:

A&D Environmental Services — Bill of Lading / Material Manifest

A&D Job No:	Generator ID Number	Page 1 of	Emergency Response Phone	Tracking Number
20308	CSQEG	1	800-434-7750	07020

Generator's Name and Mailing Address: ATC Columbia, Greenville St, Anderson, SC

Generator's site address (if different from mailing address):

Transporter 1 ☐ 2 ☐ Company Name: **A&D Environmental Services, Inc.** — US EPA ID No: NCD98623222

Transporter 1 ☒ 2 ☐ Company Name: **A&D Environmental Services (SC), LLC** — US EPA ID No: SCD987598331

Designated Facility ☐	Designated Facility ☐	Designated Facility ☐	Designated Facility ☐	Designated Facility ☒
A&D Environmental Services, Inc. 2718 Uwharrie Road Archdale, NC 27263 336-434-7750 NCD986232221	A&D Environmental Services, Inc. 3149 Lear Drive Burlington, NC 27215 336-229-0058 NCR000138628	A&D Environmental Services (SC), LLC 1915 Brentwood Street High Point, NC 27260 336-882-8000 NCR000002501	A&D Environmental Services (SC), LLC 1741 Calks Ferry Road Lexington, SC 29073 803-957-9175 SCD987598331	A&D Environmental Services (SC), LLC 305 B South Main Street Mauldin, SC 29662 803-967-3500 SCR000765677

HM	Hazardous Materials Shipping Name and Description (if applicable)	No.	Type	QTY	Wt/Vol	Profile Number
	Non Hazardous Non Regulated Material oily debris	001	DM	50	P	

	Petroleum Products for Recycle		No.	Type	QTY	Wt/Vol	Profile Number
X	NA1993, Diesel fuel, 3, III	ERG# 128					
X	NA1993, Fuel oil (No.1,2,4,5 or 6), 3, III	ERG# 128					APR 20 RECD
X	UN1203, Gasoline, 3, II	ERG# 128					
X	NA1270, Petroleum Oil, 3, III	ERG# 128					

Universal Waste Lamps, Batteries, Ballasts, and Electronics for Recycle

HM	No.	Type	Est. Wt.	Count	Shipping Name and Description (if applicable)		Common Name	Discrepancy
X					RQ, UN2809, Mercury contained in manufactured articles, 8, III	ERG# 172	Mercury Containing Articles	
X					RQ, UN2809, Mercury, 8, III	ERG# 172	Mercury	
X					RQ, UN3432, Polychlorinated biphenyls, solid, 9, II	ERG# 171	TSCA Exempt PCB Lamp Ballasts	
X					UN2800, Batteries, wet, nonspillable, 8, III	ERG# 154	Sealed Lead Acid Batteries	
X					UN2794, Batteries, wet, filled with acid, 8, III	ERG# 154	Lead Acid Batteries	
X					UN2795, Batteries, wet, filled with alkali, 8, III	ERG# 154	Wet NiCad Batteries	
X					UN3090, Lithium batteries, 9, II	ERG# 138	Lithium Batteries	
X					UN3028, Batteries, dry, containing potassium hydroxide solid, 8, III	ERG# 154	Alkaline Batteries	
X					UN3028, Batteries, dry, containing potassium hydroxide solid, 8, III	ERG# 154	NiCad Batteries	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Fluorescent lamps 4' or <	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Fluorescent lamps 4' or >	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Circular/U-tube lamps	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Compact Lamps	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Shattershield	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		HID/MV/UV Lamps	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Incandescent Lamps	
					Non-PCB Light Ballasts for Recycle (Not DOT-Regulated)		Non-PCB Light Ballasts	
					Electronic Equipment for Recycle (Not DOT-Regulated)		Electronics	

Generator's Certification: This is to certify that the above-named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that none of the materials described above are a hazardous waste as defined by EPA 40CFR Part 261 or any applicable state law, and unless specifically identified above the materials contain less than 1,000 ppm total halogens and do not contain quantifiable levels (2ppm) of PCBs as defined by EPA 40 CFR Parts 279 and 761.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
Sharon R. Florian	[signature]	4	16	12

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
Sharon R. Florian	[signature]	4	16	12

Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

Discrepancy Indication / Additional Information: Month Day Year

Designated Facility Certification: I hereby acknowledge receipt of the materials covered by this manifest except for any discrepancy indicated above.

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[signature]	4	16	12

DESIGNATED FACILITY TO GENERATOR

051712

CLIENT : ATC Columbia					**CLIENT NAME: ATC Columbia**
PROJECT : Anderson, SC Emergency Response					**CLIENT CONTACT: Fred Lyke**
A&D (SC) Job #20308	**A&D (SC) Proposal**				**CLIENT PHONE:**
Date: 5/10/2012					
PERSONNEL	UNITS	RATE	EACH	EXTENSION	**COMMENTS:**
Technician	HR	$50.00	2.25	$112.50	Time Left Office :
Shane Florian	OT	$75.00		$0.00	Time Arrived at Job Site:
					Leave for Lunch: n/a
					Arrive back to Job Site: n/a
					Time Left Job site for the day:
					Time arrived back at Office:
					WORK SUMMARY:
EQUIPMENT & SUPPLIES					
Service Truck	Day	$120.00	0.50	$60.00	Placed booms around the affected area.
Booms	Section	$50.00		$0.00	
Drum	Each	$45.00		$0.00	
DISPOSAL					
				$0.00	
Sub Total	Each			$172.50	
15% Energy Recovery Fee	Each	$172.50	0.15	$25.88	
TOTAL TASK EXPENDITURE				$198.38	

CLIENT SIGNATURE _____

I hereby acknowledge the satisfactory completion of the above described work.

COMMENTS:

051712

CLIENT : ATC Columbia					**CLIENT NAME: ATC Columbia**
PROJECT : Anderson, SC Emergency Response					**CLIENT CONTACT: Fred Lyke**
A&D (SC) Job #20308	**A&D (SC) Proposal**				**CLIENT PHONE:**
Date: 5/17/2012					
PERSONNEL	UNITS	RATE	EACH	EXTENSION	**COMMENTS:**
Technician	HR	$50.00	3.50	$175.00	Time Left Office :
Shane Florian	OT	$75.00		$0.00	Time Arrived at Job Site:
					Leave for Lunch: n/a
					Arrive back to Job Site: n/a
					Time Left Job site for the day:
					Time arrived back at Office:
					WORK SUMMARY:
EQUIPMENT & SUPPLIES					
Service Truck	Day	$120.00	0.50	$60.00	Placed booms around the affected area.
Booms	Section	$50.00	1.00	$50.00	
Drum	Each	$40.00	1.00	$40.00	
DISPOSAL					
Non-Hazardous Oily Booms	Drum	$60.00	1.00	$60.00	
Sub Total	Each			$385.00	
15% Energy Recovery Fee	Each	$385.00	0.15	$57.75	
TOTAL TASK EXPENDITURE				$442.75	

CLIENT SIGNATURE _____

I hereby acknowledge the satisfactory completion of the above described work.

COMMENTS:

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	CSQEG	1	864-234-0055	60387

5. Generator's Name and Mailing Address
ATC Columbia
Greenville St
Anderson, SC

Generator's Site Address (if different than mailing address)
ATC Columbia
Greenville St
Anderson, SC

Generator's Phone:

6. Transporter 1 Company Name: A&D Environmental — U.S. EPA ID Number: SCD987598331

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
A&D Environmental
255 Service Bay Rd
Mauldin, SC 29662

U.S. EPA ID Number: SCR000765677

Facility's Phone: 864-234-0055

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Regulated Non Hazardous Materials Oily Booms	1	DM	100	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

In case of Emergence Call 864-234-0055 A&D Job# 20308

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: C Malcolm Bth of ATC — Signature: [signature] — Month 5 Day 17 Year 12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Willie E. Battle — Signature: [signature] — Month 5 Day 17 Year 12

Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: [signature] — Signature: [signature] — Month 5 Day 17 Year 12

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

CLIENT : ATC Columbia					**CLIENT NAME: ATC Columbia**
PROJECT : Anderson, SC Emergency Response					**CLIENT CONTACT: Fred Lyke**
A&D (SC) Job #20308	**A&D (SC) Proposal**				**CLIENT PHONE:**
Date: 5/31/2012					
PERSONNEL	UNITS	RATE	EACH	EXTENSION	**COMMENTS:**
Technician	HR	$50.00	3.50	$175.00	Time Left Office :
Shane Florian	OT	$75.00		$0.00	Time Arrived at Job Site:
					Leave for Lunch: n/a
					Arrive back to Job Site: n/a
					Time Left Job site for the day:
					Time arrived back at Office:
					WORK SUMMARY:
EQUIPMENT & SUPPLIES					
Service Truck	Day	$120.00	0.50	$60.00	Placed booms around the affected area.
Booms	Section	$50.00		$0.00	
Drum	Each	$45.00		$0.00	
DISPOSAL					
				$0.00	
Sub Total	Each			$235.00	
15% Energy Recovery Fee	Each	$235.00	0.15	$35.25	
TOTAL TASK EXPENDITURE				$270.25	

CLIENT SIGNATURE _____

I hereby acknowledge the satisfactory completion of the above described work.

COMMENTS:

Page 1

051712

P.585

CLIENT : ATC Columbia					**CLIENT NAME: ATC Columbia**
PROJECT : Anderson, SC Emergency Response					**CLIENT CONTACT: Fred Lyke**
A&D (SC) Job #20308	**A&D (SC) Proposal**				**CLIENT PHONE:**
Date: 5/4/2012					
PERSONNEL	UNITS	RATE	EACH	EXTENSION	**COMMENTS:**
Technician	HR	$50.00	2.25	$112.50	Time Left Office :
Shane Florian	OT	$75.00		$0.00	Time Arrived at Job Site:
Technician	HR	$50.00	2.25	$112.50	Leave for Lunch: n/a
Sergio Martinez	OT	$75.00		$0.00	Arrive back to Job Site: n/a
					Time Left Job site for the day:
					Time arrived back at Office:
					WORK SUMMARY:
EQUIPMENT & SUPPLIES					
Service Truck	Day	$120.00	0.50	$60.00	Placed booms around the affected area.
Booms	Section	$50.00	1.00	$50.00	
Drum	Each	$45.00	1.00	$45.00	
DISPOSAL					
Non-Haz Drum Disposal	Drum	$60.00	1.00	$60.00	
Sub Total	Each			$440.00	
15% Energy Recovery Fee	Each	$440.00	0.15	$66.00	
TOTAL TASK EXPENDITURE				$506.00	

CLIENT SIGNATURE _____

I hereby acknowledge the satisfactory completion of the above described work.

COMMENTS:

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	CSQEG	1	864-234-0055	60380

GENERATOR

5. Generator's Name and Mailing Address
ATC Columbia
Greenville St
Anderson, SC
Generator's Phone:

Generator's Site Address (if different than mailing address)
ATC Columbia
Greenville St
Anderson, SC

6. Transporter 1 Company Name: A&D Environmental
U.S. EPA ID Number: SCD987598331

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
A&D Environmental
255 Service Bay Rd
Mauldin, SC 29662
Facility's Phone:
U.S. EPA ID Number: SCR000765677

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Regulated Non Hazardous Materials Oily booms	1	DM	30	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

In case of Emergence Call 864-234-0055 A&D Job# 20308

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Shane P. Florian BH of ATC
Signature: BH of ATC
Month 5 Day 4 Year 12

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Shane P. Florian
Signature
Month 5 Day 4 Year 12
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name
Signature
Month 5 Day 4 Year 12

CLIENT : ATC Columbia					**CLIENT NAME: ATC Columbia**
PROJECT : Anderson, SC Emergency Response					**CLIENT CONTACT: Fred Lyke**
A&D (SC) Job #20308	**A&D (SC) Proposal**				**CLIENT PHONE:**
Date: 6/6/2012					
PERSONNEL	UNITS	RATE	EACH	EXTENSION	**COMMENTS:**
Technician	HR	$50.00	3.00	$150.00	Time Left Office :
Shane Florian	OT	$75.00		$0.00	Time Arrived at Job Site:
					Leave for Lunch: n/a
					Arrive back to Job Site: n/a
					Time Left Job site for the day:
					Time arrived back at Office:
					WORK SUMMARY:
EQUIPMENT & SUPPLIES					
Service Truck	Day	$120.00	0.50	$60.00	Placed booms around the affected area.
Booms	Section	$50.00	1.00	$50.00	
Drum	Each	$45.00	1.00	$45.00	
DISPOSAL					
Non-Haz Drum Disposal	Drum	$60.00	1.00	$60.00	
Sub Total	Each			$365.00	
14% Energy Recovery Fee	Each	$365.00	0.14	$51.10	
TOTAL TASK EXPENDITURE				$416.10	

CLIENT SIGNATURE _____

I hereby acknowledge the satisfactory completion of the above described work.

COMMENTS:

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	CSQEG	1	864-234-0055	60388

5. Generator's Name and Mailing Address: ~~A&D Environmental 241 S Main St Mauldin SC 29662~~ ATC - Anderson, SC Denton

Generator's Site Address (if different than mailing address): ATC

Generator's Phone:

6. Transporter 1 Company Name: A&D Environmental — U.S. EPA ID Number: SCD987598331

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: A&D Environmental, 2718 Uwharrie Rd, Archdale NC 27263 — U.S. EPA ID Number: NCD986232221

Facility's Phone: ~~336-434-7750~~

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Regulated Non Hazardous Materials Oily Booms	1	DM	100	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

In case of Emergence Call 864-234-0055 A&D Job# 20308

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: G Mallon B/H ATC. — Signature: G Mallon REMOTE — Month 6 Day 6 Year 12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Willie E. Barber — Signature: W. Barber — Month 6 Day 6 Year 12

Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

CLIENT : ATC Columbia					**CLIENT NAME: ATC Columbia**
PROJECT : Anderson, SC Emergency Response					**CLIENT CONTACT: Fred Lyke**
A&D (SC) Job #20308	**A&D (SC) Proposal**				**CLIENT PHONE:**
Date: 6/29/2012					
PERSONNEL	UNITS	RATE	EACH	EXTENSION	**COMMENTS:**
Technician	HR	$50.00	3.00	$150.00	Time Left Office :
Shane Florian	OT	$75.00		$0.00	Time Arrived at Job Site:
Technician	HR	$50.00	3.00	$150.00	Leave for Lunch: n/a
Sergio Martinez	OT	$75.00		$0.00	Arrive back to Job Site: n/a
					Time Left Job site for the day:
					Time arrived back at Office:
					WORK SUMMARY:
EQUIPMENT & SUPPLIES					
Service Truck	Day	$120.00	0.50	$60.00	Placed booms around the affected area.
Booms	Section	$50.00	1.00	$50.00	
Drum	Each	$45.00	1.00	$45.00	
DISPOSAL					
Non-Haz Drum Disposal	Drum	$60.00	1.00	$60.00	
Sub Total	Each			$515.00	
14% Energy Recovery Fee	Each	$515.00	0.14	$72.10	
TOTAL TASK EXPENDITURE				$587.10	

CLIENT SIGNATURE _____

I hereby acknowledge the satisfactory completion of the above described work.

COMMENTS:

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CSQEG

2. Page 1 of 1

3. Emergency Response Phone: 864-234-0055

4. Waste Tracking Number: 60416

5. Generator's Name and Mailing Address: A&D Environmental, 255 Service Bay Rd, Mauldin SC 29662

Generator's Site Address (if different than mailing address): ATC

Generator's Phone:

6. Transporter 1 Company Name: A&D Environmental — U.S. EPA ID Number: SCD987586331

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: A&D Environmental, 2718 Uwharrie Rd, Archdale NC 27263 — U.S. EPA ID Number: NCD988232221

Facility's Phone: 336-434-7750

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. Non Regulated Non Hazardous Materials oily booms	1	DM	50	P
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information

In case of Emergency Call 864-234-0055 A&D Job# 20308

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: BH ATC Columbia Shane P. Florian — Signature: BH of ATC — Month 6 Day 29 Year 12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Shane P. Florian — Signature — Month 6 Day 29 Year 12

Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

64863

A&D Environmental Services — Bill of Lading / Material Manifest

A&D Job No:	Generator ID Number	Page 1 of	Emergency Response Phone	Tracking Number
203088	CESQG	1	800-434-7750	07044

Generator's Name and Mailing Address: ATC, 1500 Greenville Street, Anderson, SC

Generator's site address (if different from mailing address):

Transporter 1 [X] 2 [ ] Company Name: **A&D Environmental Services, Inc.** — US EPA ID No: **NCD98623222**

Transporter 1 [ ] 2 [ ] Company Name: **A&D Environmental Services (SC), LLC** — US EPA ID No: **SCD987598331**

Designated Facility	Designated Facility	Designated Facility	Designated Facility	[X] Designated Facility
A&D Environmental Services, Inc. **2718 Uwharrie Road** **Archdale, NC 27263** **336-434-7750** **NCD986232221**	**A&D Environmental Services, Inc.** **3149 Lear Drive** **Burlington, NC 27215** **336-229-0058** **NCR000138628**	**A&D Environmental Services (SC), LLC** **1915 Brentwood Street** **High Point, NC 27260** **336-882-8000** **NCR000002501**	**A&D Environmental Services (SC), LLC** **1741 Calks Ferry Road** **Lexington, SC 29073** **803-957-9175** **SCD987598331**	**A&D Environmental Services (SC), LLC** **305 B South Main Street** **Mauldin, SC 29662** **803-967-3500** **SCR000765677**

HM	Hazardous Materials Shipping Name and Description (if applicable)	No.	Type	QTY	Wt/Vol	Profile Number
	Non USEPA Non USDOT Regulated material. (oily debris)	001	DM	50	P	(IS 203088)

	Petroleum Products for Recycle		No.	Type	QTY	Wt/Vol	Profile Number
X	NA1993, Diesel fuel, 3, III	ERG# 128					
X	NA1993, Fuel oil (No.1,2,4,5 or 6), 3, III	ERG# 128					
X	UN1203, Gasoline, 3, II	ERG# 128					
X	NA1270, Petroleum Oil, 3, III	ERG# 128					

Universal Waste Lamps, Batteries, Ballasts, and Electronics for Recycle

HM	No.	Type	Est. Wt.	Count	Shipping Name and Description (if applicable)		Common Name	Discrepancy
X					RQ, UN2809, Mercury contained in manufactured articles, 8, III	ERG# 172	Mercury Containing Articles	
X					RQ, UN2809, Mercury, 8, III	ERG# 172	Mercury	
X					RQ, UN3432, Polychlorinated biphenyls, solid, 9, II	ERG# 171	TSCA Exempt PCB Lamp Ballasts	
X					UN2800, Batteries, wet, nonspillable, 8, III	ERG# 154	Sealed Lead Acid Batteries	
X					UN2794, Batteries, wet, filled with acid, 8, III	ERG# 154	Lead Acid Batteries	
X					UN2795, Batteries, wet, filled with alkali, 8, III	ERG# 154	Wet NiCad Batteries	
X					UN3090, Lithium batteries, 9, II	ERG# 138	Lithium Batteries	
X					UN3028, Batteries, dry, containing potassium hydroxide solid, 8, III	ERG# 154	Alkaline Batteries	
X					UN3028, Batteries, dry, containing potassium hydroxide solid, 8, III	ERG# 154	NiCad Batteries	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Fluorescent lamps 4' or <	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Fluorescent lamps 4' or >	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Circular/U-tube lamps	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Compact Lamps	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Shattershield	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		HID/MV/UV Lamps	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Incandescent Lamps	
					Non-PCB Light Ballasts for Recycle (Not DOT-Regulated)		Non-PCB Light Ballasts	
					Electronic Equipment for Recycle (Not DOT-Regulated)		Electronics	

Generator's Certification: This is to certify that the above-named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that none of the materials described above are a hazardous waste as defined by EPA 40CFR Part 261 or any applicable state law, and unless specifically identified above the materials contain less than 1,000 ppm total halogens and do not contain quantifiable levels (2ppm) of PCBs as defined by EPA 40 CFR Parts 279 and 761.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
Gene Walker (B/H of ATC EIR)	Gene Walker (B/H of ATC)	7	13	12

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
Doug Johnson	Doug Johnson	7	13	12

Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

Discrepancy Indication / Additional Information: Month Day Year

Designated Facility Certification: I hereby acknowledge receipt of the materials covered by this manifest except for any discrepancy indicated above.

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]	7	13	12

DESIGNATED FACILITY'S COPY

CLIENT : ATC Columbia	**CLIENT NAME: ATC Columbia**
PROJECT : Anderson, SC Emergency Response	**CLIENT CONTACT: Fred Lyke**
A&D (SC) Job #20308 A&D (SC) Proposal	**CLIENT PHONE:**
8/6/2012	

PERSONNEL	UNITS	RATE	EACH	EXTENSION	**COMMENTS:**
Technician	HR	$50.00	2.75	$137.50	Time Left Office :
Shane Florian	OT	$75.00		$0.00	Time Arrived at Job Site:
Technician	HR	$50.00		$0.00	Leave for Lunch: n/a
Sergio Martinez	OT	$75.00		$0.00	Arrive back to Job Site: n/a
					Time Left Job site for the day:
					Time arrived back at Office:
					WORK SUMMARY:
EQUIPMENT & SUPPLIES					
Service Truck	Day	$120.00	0.50	$60.00	Placed booms around the affected area.
Booms	Section	$50.00	1.00	$50.00	
Drum	Each	$45.00	1.00	$45.00	
DISPOSAL					
				$0.00	
Sub Total	Each			$292.50	
11% Energy Recovery Fee	Each	$292.50	0.11	$32.18	
TOTAL TASK EXPENDITURE				$324.68	

CLIENT SIGNATURE _____

I hereby acknowledge the satisfactory completion of the above described work.

COMMENTS:

CLIENT : ATC Columbia
PROJECT : Anderson, SC Emergency Response
A&D (SC) Job #20308 **A&D (SC) Proposal**
9/18/2012

CLIENT NAME: ATC Columbia
CLIENT CONTACT: Fred Lyke
CLIENT PHONE:

PERSONNEL	UNITS	RATE	EACH	EXTENSION	**COMMENTS:**
Technician	HR	$50.00	3.00	$150.00	Time Left Office :
Shane Florian	OT	$75.00		$0.00	Time Arrived at Job Site:
Technician	HR	$50.00	3.00	$150.00	Leave for Lunch: n/a
Sergio Martinez	OT	$75.00		$0.00	Arrive back to Job Site: n/a
					Time Left Job site for the day:
					Time arrived back at Office:
					WORK SUMMARY:
EQUIPMENT & SUPPLIES					
Service Truck	Day	$120.00	0.50	$60.00	
Booms	Section	$50.00		$0.00	
Drum	Each	$45.00		$0.00	
DISPOSAL					
Non-Hazardous Drum	Drum	$60.00	1.00	$60.00	
Sub Total	Each			$420.00	
14% Energy Recovery Fee	Each	$420.00	0.14	$58.80	
TOTAL TASK EXPENDITURE				$478.80	

CLIENT SIGNATURE _____
I hereby acknowledge the satisfactory completion of the above described work.
COMMENTS:

11615

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	CSOEG	1	864-234-0056	66453

5. Generator's Name and Mailing Address
A&D Environmental
253 Service Bay Rd
Mauldin SC 29662

Generator's Site Address (if different than mailing address)
ATC

Generator's Phone:

6. Transporter 1 Company Name
A&D Environmental

U.S. EPA ID Number
SCD987588231

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
A&D Environmental
2718 Uwharrie Rd
Archdale NC 27263

U.S. EPA ID Number
NCD986232221

Facility's Phone: 336-434-7700

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Regulated Non Hazardous Materials oily booms	1	DM	50	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

In case of Emergency Call 864-234-0056 A&D Job# 20308

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Shane P. Florian BH of ATC Columbia
Signature: BH of ATC Columbia
Month 9 Day 18 Year 12

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Dave Johnson
Signature: Dave Johnson
Month 9 Day 18 Year 12
Transporter 2 Printed/Typed Name: Signature: Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:
17b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name Signature Month Day Year

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

169-BLC-O 6 10498 (Rev. 9/09)

TRANSPORTER #1

A&D Environmental Services — Bill of Lading / Material Manifest

A&D Job No:	Generator ID Number	Page 1 of	Emergency Response Phone	Tracking Number
20308	CSQEG	1	800-434-7750	06944

Generator's Name and Mailing Address: A+D Environmental Services, 255 Service Bay Rd, Mauldin, SC 29662

Generator's site address (if different from mailing address): ATC Columbia, Greenville St, Anderson, SC

Transporter 1 ☐ 2 ☐ Company Name: **A&D Environmental Services, Inc.** — US EPA ID No: NCD98623222

Transporter 1 ☒ 2 ☐ Company Name: **A&D Environmental Services (SC), LLC** — US EPA ID No: SCD987598331

☒ Designated Facility	☐ Designated Facility	☐ Designated Facility	☐ Designated Facility	☐ Designated Facility
A&D Environmental Services, Inc.	A&D Environmental Services, Inc.	A&D Environmental Services (SC), LLC	A&D Environmental Services (SC), LLC	A&D Environmental Services (SC), LLC
2718 Uwharrie Road	3149 Lear Drive	1915 Brentwood Street	1741 Calks Ferry Road	305 B South Main Street
Archdale, NC 27263	Burlington, NC 27215	High Point, NC 27260	Lexington, SC 29073	Mauldin, SC 29662
336-434-7750	336-229-0058	336-882-8000	803-957-9175	803-967-3500
NCD986232221	NCR000138628	NCR000002501	SCD987598331	SCR000765677

HM	Hazardous Materials Shipping Name and Description (if applicable)	No.	Type	QTY	Wt/Vol	Profile Number
	Non Hazardous Non Regulated Material Oily booms	001	DM	50	P	

	Petroleum Products for Recycle		No.	Type	QTY	Wt/Vol	Profile Number
X	NA1993, Diesel fuel, 3, III	ERG# 128					
X	NA1993, Fuel oil (No.1,2,4,5 or 6), 3, III	ERG# 128					
X	UN1203, Gasoline, 3, II	ERG# 128					
X	NA1270, Petroleum Oil, 3, III	ERG# 128					

Universal Waste Lamps, Batteries, Ballasts, and Electronics for Recycle

HM	No:	Type	Est. Wt.	Count	Shipping Name and Description (if applicable)		Common Name	Discrepancy
X					RQ, UN2809, Mercury contained in manufactured articles, 8, III	ERG# 172	Mercury Containing Articles	
X					RQ, UN2809, Mercury, 8, III	ERG# 172	Mercury	
X					RQ, UN3432, Polychlorinated biphenyls, solid, 9, II	ERG# 171	TSCA Exempt PCB Lamp Ballasts	
X					UN2800, Batteries, wet, nonspillable, 8, III	ERG# 154	Sealed Lead Acid Batteries	
X					UN2794, Batteries, wet, filled with acid, 8, III	ERG# 154	Lead Acid Batteries	
X					UN2795, Batteries, wet, filled with alkali, 8, III	ERG# 154	Wet NiCad Batteries	
X					UN3090, Lithium batteries, 9, II	ERG# 138	Lithium Batteries	
X					UN3028, Batteries, dry, containing potassium hydroxide solid, 8, III	ERG# 154	Alkaline Batteries	
X					UN3028, Batteries, dry, containing potassium hydroxide solid, 8, III	ERG# 154	NiCad Batteries	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Fluorescent lamps 4' or <	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Fluorescent lamps 4' or >	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Circular/U-tube lamps	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Compact Lamps	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Shattershield	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		HID/MV/UV Lamps	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Incandescent Lamps	
					Non-PCB Light Ballasts for Recycle (Not DOT-Regulated)		Non-PCB Light Ballasts	
					Electronic Equipment for Recycle (Not DOT-Regulated)		Electronics	

Generator's Certification: This is to certify that the above-named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that none of the materials described above are a hazardous waste as defined by EPA 40CFR Part 261 or any applicable state law, and unless specifically identified above the materials contain less than 1,000 ppm total halogens and do not contain quantifiable levels (2ppm) of PCBs as defined by EPA 40 CFR Parts 279 and 761.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
BH of ATC Columbia Shane P. Florian	BH of ATC Columbia	10	9	17
Transporter 1 Printed/Typed Name	**Signature**	**Month**	**Day**	**Year**
Shane P. Florian		10	9	17
Transporter 2 Printed/Typed Name	**Signature**	**Month**	**Day**	**Year**

Discrepancy Indication / Additional Information:

		Month	Day	Year

Designated Facility Certification: I hereby acknowledge receipt of the materials covered by this manifest except for any discrepancy indicated above.

Printed/Typed Name	Signature	Month	Day	Year

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	[illegible]	1	864 234 0095	00473

5. Generator's Name and Mailing Address
A&D Environmental Services
235 Corner Way Rd
Mauldin, SC 29667

Generator's Site Address (if different than mailing address)
ATC Columbia
Greenville St
Anderson, SC

Generator's Phone:

6. Transporter 1 Company Name: A&D Environmental
U.S. EPA ID Number: [illegible]

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
A&D Environmental
2718 Highway 80
Archdale, NC 27263

U.S. EPA ID Number: NCD982232221

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. Non Regulated Non Hazardous Materials Oily boxes	1	DM	100	P	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information
In case of Emergency Call 864 234 0095 A&D Job# 20330

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: BH of ATC Columbia Shane P Flavor
Signature: BH of ATC Columbia
Month 11 Day 13 Year 17

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Shane P Flavor
Signature:
Month 11 Day 13 Year 17
Transporter 2 Printed/Typed Name
Signature
Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name
Signature
Month Day Year

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

SEP 12 REC'D

051712

CLIENT : ATC Columbia					**CLIENT NAME: ATC Columbia**
PROJECT : Anderson, SC Emergency Response					**CLIENT CONTACT: Fred Lyke**
A&D (SC) Job #13983	**A&D (SC) Proposal**				**CLIENT PHONE: (803) 735-0003**
Date: 9/3/13					
PERSONNEL	UNITS	RATE	EACH	EXTENSION	**COMMENTS:**
Technician	HR	$50.00	3.00	$150.00	Time Left Office :
Shane Florian					Time Arrived at Job Site:
					Leave for Lunch: n/a
					Arrive back to Job Site: n/a
					Time Left Job site for the day:
					Time arrived back at Office:
					WORK SUMMARY:
					Picked up booms and placed in drums. Drum transported for disposal.
EQUIPMENT & SUPPLIES					
Service Truck	Day	$120.00	0.50	$60.00	
Drum	Each	$45.00	1.00	$45.00	
DISPOSAL					
Non-Hazardous Drum	Drum	$60.00	1.00	$60.00	
Sub Total	Each			$315.00	
13% Energy Recovery Fee	Each	$315.00	0.13	$40.95	
TOTAL TASK EXPENDITURE				$355.95	

CLIENT SIGNATURE _____

I hereby acknowledge the satisfactory completion of the above described work.

COMMENTS:

A&D Environmental Services — Bill of Lading / Material Manifest

A&D Job No:	Generator ID Number	Page 1 of	Emergency Response Phone	Tracking Number
13983		1	800-434-7750	04224

Generator's Name and Mailing Address: Pantry, 1502 East Greenville Street, Anderson, SC

Generator's site address (if different from mailing address): Cardno ATC

SEP 12 REC

Transporter 1 [ ] 2 [ ] Company Name: A&D Environmental Services, Inc. — US EPA ID No: NCD98623222

Transporter 1 [X] 2 [ ] Company Name: A&D Environmental Services (SC), LLC — US EPA ID No: SCD98759833

[X] Designated Facility	[ ] Designated Facility	[ ] Designated Facility	[ ] Designated Facility	[ ] Designated Facility
A&D Environmental Services, Inc.	A&D Environmental Services, Inc.	A&D Enyironmental Services (SC), LLC	A&D Environmental Services (SC), LLC	A&D Environmental Services (SC), LLC
2718 Uwharrie Road	3149 Lear Drive	1915 Brentwood Street	1741 Calks Ferry Road	305 B South Main Street
Archdale, NC 27263	Burlington, NC 27215	High Point, NC 27260	Lexington, SC 29073	Mauldin, SC 29662
336-434-7750	336-229-0058	336-882-8000	803-957-9175	803-967-3500
NCD986232221	NCR000138628	NCR000002501	SCD987598331	SCR000765677

HM	Hazardous Materials Shipping Name and Description (if applicable)	No.	Type	QTY	Wt/Vol	Profile Number
	Non-hazardous, Non-Regulated Petroleum contaminated debris	001	DM	50	P	

	Petroleum Products for Recycle		No.	Type	QTY	Wt/Vol	Profile Number
X	NA1993, Diesel fuel, 3, III	ERG# 128					
X	NA1993, Fuel oil (No.1,2,4,5 or 6), 3, III	ERG# 128					
X	UN1203, Gasoline, 3, II	ERG# 128					
X	NA1270, Petroleum Oil, 3, III	ERG# 128					

Universal Waste Lamps, Batteries, Ballasts, and Electronics for Recycle

HM	No.	Type	Est. Wt.	Count	Shipping Name and Description (if applicable)		Common Name	Discrepanc
X					RQ, UN2809, Mercury contained in manufactured articles, 8, III	ERG# 172	Mercury Containing Articles	
X					RQ, UN2809, Mercury, 8, III	ERG# 172	Mercury	
X					RQ, UN3432, Polychlorinated biphenyls, solid, 9, II	ERG# 171	TSCA Exempt PCB Lamp Ballasts	
X					UN2800, Batteries, wet, nonspillable, 8, III	ERG# 154	Sealed Lead Acid Batteries	
X					UN2794, Batteries, wet, filled with acid, 8, III	ERG# 154	Lead Acid Batteries	
X					UN2795, Batteries, wet, filled with alkali, 8, III	ERG# 154	Wet NiCad Batteries	
X					UN3090, Lithium batteries, 9, II	ERG# 138	Lithium Batteries	
X					UN3028, Batteries, dry, containing potassium hydroxide solid, 8, III	ERG# 154	Alkaline Batteries	
X					UN3028, Batteries, dry, containing potassium hydroxide solid, 8, III	ERG# 154	NiCad Batteries	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Fluorescent lamps 4' or <	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Fluorescent lamps 4' or >	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Circular/U-tube lamps	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Compact Lamps	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Shattershield	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		HID/MV/UV Lamps	
					Universal Waste Lamps (Not DOT-Regulated per 49 CFR 173.164(e)		Incandescent Lamps	
					Non-PCB Light Ballasts for Recycle (Not DOT-Regulated)		Non-PCB Light Ballasts	
					Electronic Equipment for Recycle (Not DOT-Regulated)		Electronics	

Generator's Certification: This is to certify that the above-named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation. I further certify that none of the materials described above are a hazardous waste as defined by EPA 40CFR Part 261 or any applicable state law, and unless specifically identified above the materials contain less than 1,000 ppm total halogens and do not contain quantifiable levels (2ppm) of PCBs as defined by EPA 40 CFR Parts 279 and 761.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
Bill Atkins for Fred Lyle - Cardno ATC	[signature]	09	03	13

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
Shane P Florian	[signature]	9	3	13

Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

Discrepancy Indication / Additional Information: Month Day Year

Designated Facility Certification: I hereby acknowledge receipt of the materials covered by this manifest except for any discrepancy indicated above.

Printed/Typed Name	Signature	Month	Day	Year
Bill Atkins	[signature]	9	9	13

DESIGNATED FACILITY'S COPY

D H E C

PROMOTE PROTECT PROSPER

Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

UST 43 tech DOCKETING

MAR 0 6 2014

BRENT PUZAK
PANTRY INC
PO BOX 1410
SANFORD NC 27331-1410

Re: **Site Specific Work Plan Directive**
Former 81 Food Mart, 1502 E Greenville Hwy., Greenville, SC
Permit # 12458
Release reported November 10, 1992
Report received February 3, 2014
Anderson County

Dear Mr. Puzak:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the referenced report.

To evaluate the current site conditions, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, please have your contractor develop a Site Specific Work Plan for a groundwater sampling event. Sampling should include all of the monitoring wells, trip blanks, field blanks, and field duplicates for BTEX, naphthalene, 1,2-DCA, MTBE, oxygenates, and EDB. The groundwater sampling event should be conducted in accordance with the UST Quality Assurance Program Plan Revision 2.0 and must be conducted in compliance with all applicable regulations. A copy of QAPP Revision 2.0 for the Underground Storage Tank Division is available at http://www.dhec.sc.gov/environment/lwm/usthome/Qapp.htm.

Please have your contractor submit the Site Specific Work Plan and Cost Agreement within thirty days of the date of this letter. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. **Please note that technical and financial pre-approval from the Agency must be issued before work begins**.

On all correspondence concerning this site, please reference UST Permit #12458. If you have any questions, please contact me at (803) 898-0608 or by e-mail at minerrs@dhec.sc.gov.

Sincerely,

Read S. Miner, P.G., Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Technical File
Cardno ATC, 400 Northeast Dr., Ste. Q, Columbia, SC 29203-5182

UST
MAR 27 2014
DIVISION

UST
44Keep
DOCKETING

Cardno ATC
Shaping the Future

Cardno ATC

400 Northeast Drive
Unit Q
Columbia, SC 29203

Phone **+1 803 735 0003**
Fax +1 803 735 0443
www.cardno.com

www.cardnoatc.com

March 26, 2014

SCDHEC – UST Program
Bureau of Land and Waste Management
2600 Bull Street
Columbia, South Carolina 29201-1708

Attn.: Read S. Miner, P.G., Hydrogeologist, Corrective Action Section

Re: Proposed Groundwater Sampling Activities
81 Food Mart (Former Pantry 585)
1502 East Greenville Highway
Anderson, Anderson County, South Carolina
UST Permit #12458

Dear Mr. Miner:

As per your letter dated March 6, 2014, please find attached the site-specific work plan and cost agreement for the proposed groundwater sampling activities for the above referenced site. Should have any questions or require additional information, please contact me at 803-735-0003 or by email at jesse.keeffe@cardno.com.

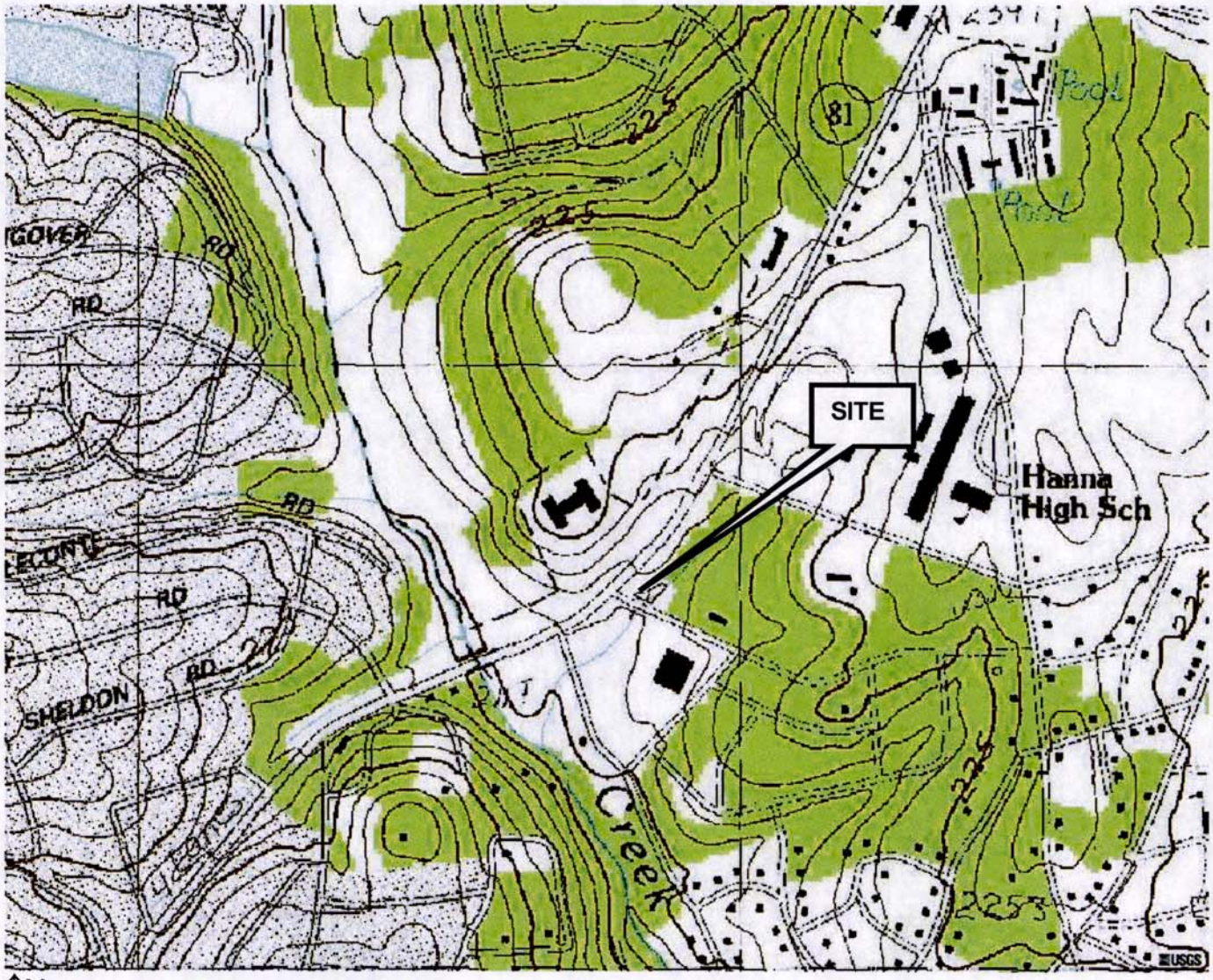
Sincerely,
Cardno ATC

Jesse L. Keeffe
Project Manager
for Cardno ATC
Email: jesse.keeffe@cardno.com

Attachments

cc: Mr. Brent Puzak, The Pantry, Inc., 305 Gregson Drive, Cary, North Carolina 28511

FIGURES



↑N

Figure 1: Site Location Map
Pantry #585 (81 Food Mart)
1502 East Greenville Street
Anderson, Anderson County, South Carolina
UST Permit #12458

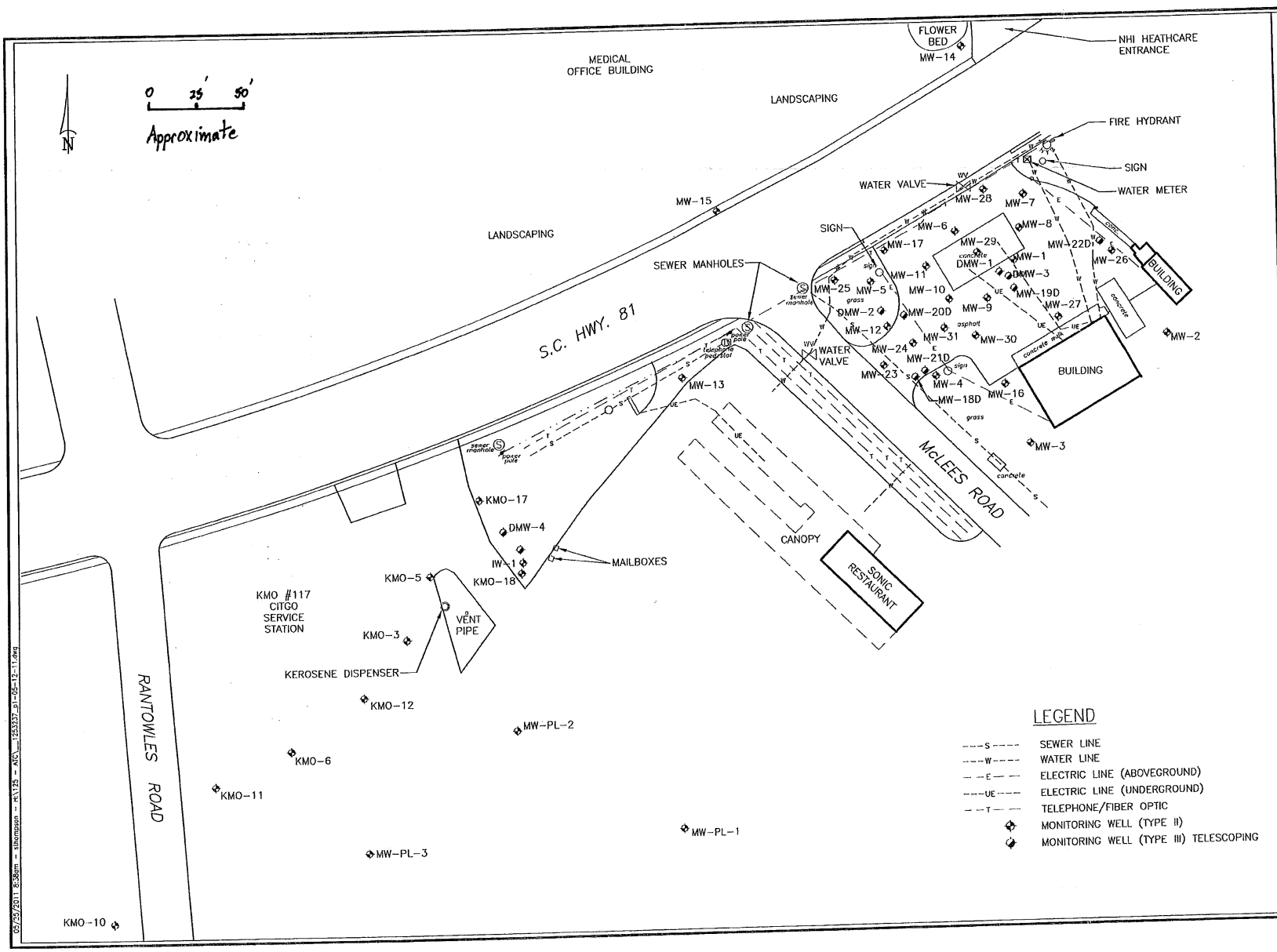
Cardno ATC
Shaping the Future

400 Northeast Drive, Unit Q Phone (803) 735-0003
Columbia, South Carolina Fax (803) 735-0443

ATC PROJECT No: 14.25384.0585

SOURCE: USGS Topographic Map Anderson, SC Quadrangle

1"= 885'



ATC ASSOCIATES INC.
Columbia, South Carolina 29203 (803) 735-0003 FAX (803) 735-0443

TITLE FIGURE 2
SITE MAP
PANTRY #585 (81 Food Mart)
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

UST PERMIT #12458

CAD FILE	TYPE CODE	PREP. BY	REV. BY	SCALE	DATE	PROJECT NO.
1253237.dwg		CW		1" = 50'	05-11-2011	89.25384.0585

NOTES:

05/25/2011 8:38am - sthompson - H:\125 - ATC_\1253237_01-05-12-11.dwg

APPENDIX

D H E C

PROMOTE PROTECT PROSPER

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

To: Read S. Miner, P.G. (SCDHEC Project Manager)
From: Jesse L. Keeffe (Contractor Project Manager)
Contractor: CARDNO ATC UST Contractor Certification Number: 313

Facility Name: Former 81 Food Mart (Formerly Pantry 585) UST Permit #: 12458
Facility Address: 1502 East Greenville Highway, Greenville, South Carolina
Responsible Party: The Pantry, Inc. Phone: 919-774-6700
RP Address: 305 GRegson Drive, P.O. Box 8019, Cary, North Carolina 27511
Property Owner (if different): DBOUK and JOUMANA WAJDI
Property Owner Address: 3451 Highway 81 North, Anderson, South Carolina 29621
Current Use of Property: Prosthetics Service and Sales Facility; Medical Office (commercial)

Scope of Work (Please check all that apply)

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

Analyses (Please check all that apply)

Groundwater/Surface Water:

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

Soil:

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

Air:

- ☐ BTEXN

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

____ Soil	____ Water Supply Wells	____ Air	3 Field Blank
47 Monitoring Wells	____ Surface Water	3 Duplicate	3 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
Monitoring Well development method (consistent with SOP): _____
Comments, if warranted:

_____
_____
_____

UST Permit #: 12458 Facility Name: Former 81 Food Mart (Former Pantry 585)

Implementation Schedule (Number of calendar days from approval)
Field Work Start-Up: 15 Field Work Completion: 30
Report Submittal: 60 # of Copies Provided to Property Owners: 1

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/repaired, well pads/bolts/caps to replace, details of AFVR event, etc.
Wells to be sampled: MW-1 through MW-17, MW-18D through MW-22D, MW-23 through MW-31, DMW-1 through DMW-4, KMO-3, KMO-5, KMO-6, KMO-10, KMO-11, KMO-12, KMO- 17, KMO-18, MW-PL-1, MW-PL-2, MW-PL-3, and IW-1.

Compliance With Annual Contractor Quality Assurance Plan (ACQAP)
Yes Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.
Name of Laboratory: Accutest
SCDHEC Certification Number: 73004001
Name of Laboratory Director: Ron Benjamin

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

D H E C

PROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

ASSESSMENT COMPONENT COST AGREEMENT
SOUTH CAROLINA
Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
November 1, 2013

Former 81 Food Mart

UST Permit #: 12458 **Cost Agreement #:**

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1. **Plan Preparation**				
A1. Site-specific Work Plan	1	each	$150.00	$150.00
B1. Tax Map		each	$70.00	$0.00
C1. Tier II or Comp. Plan /QAPP Appendix B		each	$250.00	$0.00
2. A1. **Receptor Survey** *		each	$551.00	$0.00
3. **Survey (500 ft x 500 ft)**				
A1. Comprehensive Survey		each	$1,040.00	$0.00
B. Subsurface Geophysical Survey				
1B. < 10 meters below grade		each	$1,300.00	$0.00
2B. > 10 meters below grade		each	$2,310.00	$0.00
C1. Geophysical UST or Drum Survey		each	$910.00	$0.00
4. **Mob/Demob**				
A1. Equipment		each	$1,020.00	$0.00
B1. Personnel	2	each	$423.00	$846.00
C1. Adverse Terrain Vehicle		each	$500.00	$0.00
5. A1. **Soil Borings (hand auger)***		foot	$5.00	$0.00
6. **Soil Borings (requiring equipment, push technology, etc)* or Field Screening (including water ssample, soil sample, soil gas sample, etc.)***				
A1. Standard		per foot	$7.40	$0.00
C1. Fractured Rock		per foot	$20.20	$0.00
7. A1. **Soil Leachability Model**		each	$60.00	$0.00
8. **Abandonment (per foot)***				
A1. 2" diameter or less		per foot	$3.10	$0.00
B1. Greater than 2" to 6" diameter		per foot	$4.50	$0.00
C1. Dug/Bored well (up to 6 feet diameter)		per foot	$15.00	$0.00
9. **Well Installation (per foot)***				
A1. Water Table (hand augered)		per foot	$10.60	$0.00
B1. Water Table (drill rig)		per foot	$38.00	$0.00
C1. Telescoping		per foot	$31.80	$0.00
D1. Rock Drilling		per foot	$26.80	$0.00
E1. 2" Rock Coring		per foot	$30.90	$0.00
G1. Rock Multi-sampling ports/screens		per foot	$33.40	$0.00
H1. Recovery Well (4" diameter)		per foot	$30.00	$0.00
II. Pushed Pre-packed screen (1.25" dia)		per foot	$15.00	$0.00
J1. Rotosonic (2" diameter)		per foot	$44.00	$0.00
K. Re-develop Existing Well		per foot	$11.00	$0.00
10. **Groundwater Sample Collection / Gauge Depth to Water or Product** *				
A1. Groundwater Purge	47	per well/receptor	$60.00	$2,820.00
B1. Air or Vapors		per receptor	$12.00	$0.00
C1. Water Supply		per well/receptor	$22.00	$0.00
D1. Groundwater No Purge or Duplicate	3	per well/receptor	$28.00	$84.00
E1. Gauge Well only		per well	$7.00	$0.00
F1. Sample Below Product		per well	$12.00	$0.00
G1. Passive Diffusion Bag		each	$26.00	$0.00
H1. Field Blank	3	each	$24.60	$73.80

11. Laboratory Analyses-Groundwater				
A2. BTEXNM+Oxyg's+1,2 DCA+Eth(8260	56	per sample	$122.00	$6,832.00
AA1. Lead, Filtered		per sample	$13.80	$0.00
B2. Rush EPA Method 8260B (All of item A.)		per sample	$153.60	$0.00
C2. Trimethal, Butyl, and Isopropyl Benzenes		per sample	$36.40	$0.00
D1. PAH's		per sample	$60.60	$0.00
E1. Lead		per sample	$16.00	$0.00
F1. EDB by EPA 8011	56	per sample	$45.20	$2,531.20
FF1. EDB by EPA Method 8011 Rush		per sample	$68.20	$0.00
G1. 8 RCRA Metals		per sample	$63.40	$0.00
H1. TPH (9070)		per sample	$41.00	$0.00
II. pH		per sample	$5.20	$0.00
J1. BOD		per sample	$20.00	$0.00
PP. Ethanol		per sample	$14.80	$0.00
11. Analyses-Soil				
Q1. BTEX + Naphth.		per sample	$64.00	$0.00
R1. PAH's		per sample	$64.04	$0.00
S1. 8 RCRA Metals		per sample	$56.40	$0.00
U1. TPH-DRO (3550C/8015C)		per sample	$40.00	$0.00
V1. TPH- GRO (5030B/8015C)		per sample	$35.96	$0.00
W1. Grain size/hydrometer		per sample	$104.00	$0.00
X1. Total Organic Carbon		per sample	$30.60	$0.00
11. Analyses-Air				
Y1. BTEX + Naphthalene		per sample	$216.00	$0.00
11. Analyses-Free Phase Product				
Z1. Hydrocarbon Fuel Identification		per sample	$357.00	$0.00
12. Aquifer Characterization				
A1. Pumping Test*		per hour	$23.00	$0.00
B1. Slug Test*		per test	$191.00	$0.00
C1. Fractured Rock		per test	$100.00	$0.00
13. A1. **Free Product Recovery Rate Test***		each	$38.00	$0.00
14. Fate/Transport Modeling				
A1. Mathematical Model		each	$100.00	$0.00
B1. Computer Model		each	$100.00	$0.00
15. Risk Evaluation				
A. Tier I Risk Evaluation		each	$300.00	$0.00
B1. Tier II Risk Evaluation		each	$100.00	$0.00
16. A1. **Subsequent Survey***		each	$260.00	$0.00
17. Disposal (gallons or tons)*				
AA. Wastewater	300	gallon	$0.56	$168.00
BB. Free Product		gallon	$0.50	$0.00
C1. Soil Treatment/Disposal		ton	$60.00	$0.00
D1. Drilling fluids		gallon	$0.42	$0.00
18. Miscellaneous (attach receipts)				
		each	$0.00	$0.00
		each	$0.00	$0.00
		each	$0.00	$0.00
20. Tier I Assessment (Use DHEC 3665 form)		standard		$0.00
21. IGWA (Use DHEC 3666 form)		standard		$0.00
22. Corrective Action (Use DHEC 3667 form)		PFP Bid		$0.00

23. Aggressive Fluid & Vapor Recovery (AFVR)					
A1. 8-hour Event*		each	$1,375.00		$0.00
A2. 24-hour Event*		each	$3,515.00		$0.00
A3. 48-hour Event*		each	$6,265.00		$0.00
A4. 96-hour Event*		each	$12,567.50		$0.00
C1. Off-gas Treatment 8 hour		per event	$122.50		$0.00
C2. Off-gas Treatment 24 hour		per event	$241.50		$0.00
C3. Off-gas Treatment 48 hour		per event	$327.00		$0.00
C4. Off-gas Treatment 96 hour		per event	$780.00		$0.00
D. Site Reconnaissance		each	$203.25		$0.00
E1. Additional Hook-ups		each	$25.75		$0.00
F. Effluent Disposal		gallon	$0.30		$0.00
G. AFVR Mobilization/Demobilization		each	$391.50		$0.00
24. Granulated Activated Carbon (GAC) filter system installation & service:					
A1. New GAC System Installation*		each	$1,900.00		$0.00
BB. Refurbished GAC Sys. Install*		each	$900.00		$0.00
C1. Filter replacement/removal*		each	$350.00		$0.00
DD. GAC System removal, cleaning, & refurbishment*		each	$275.00		$0.00
E1. GAC System housing*		each	$250.00		$0.00
F. In-line particulate filter		each	$150.00		$0.00
G1. Additional piping & fittings		foot	$1.50		$0.00
25. Well Repair					
A1. Additional Copies of the Report Delivered		each	$50.00		$0.00
B1. Repair 2x2 MW pad*		each	$50.00		$0.00
C1. Repair 4x4 MW pad*		each	$88.00		$0.00
D1. Repair well vault*		each	$118.00		$0.00
F1. Replace well cover bolts		each	$2.60		$0.00
G. Replace locking well cap & lock		each	$15.00		$0.00
H1. Replace/Repair stick-up*		each	$134.00		$0.00
II. Convert Flush-mount to Stick-up*		each	$150.00		$0.00
J1. Convert Stick-up to Flush-mount*		each	$130.00		$0.00
K1. Replace missing/illegible well ID plate		each	$12.00		$0.00
Report Prep & Project Management	10%	percent	$13,505.00		$1,350.50
TOTAL					$14,855.50

*The appropriate mobilization cost can be added to complete these tasks, as necessary

D H E C
PROMOTE PROTECT PROSPER
Catherine B. Templeton, Director
Promoting and protecting the health of the public and the environment

BRENT PUZAK
PANTRY INC
305 GREGSON DR
CARY NC 28511

APR 0 2 2014

UST DOCKETING 45 tech

Re: **Sample Directive**
Former 81 Food Mart, 1502 E Greenville Hwy., Greenville, SC
UST Permit #12458; CA #47670
Release reported November 10, 1992
Site-Specific Work Plan received March 27, 2014
Anderson County

Dear Mr. Puzak:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the referenced plan submitted on your behalf by Cardno ATC. Sampling of the monitoring wells is necessary. All work should be conducted in accordance with the UST Quality Assurance Program Plan (QAPP) and must be conducted in compliance with all applicable regulations. A copy of Agency QAPP Revision 2.0 for the UST Management Division is available at http://www.scdhec.gov/environment/lwm/usthome/Qapp.htm.

Activities at the site should begin immediately upon receipt of this letter. Cost agreement # 47670 has been approved for the amount shown on the enclosed cost agreement form for the sampling of the monitoring wells and analysis for BTEX, naphthalene, MTBE, 1,2-DCA, oxygenates, and EDB. Analyses should be in accordance with Appendix E of the QAPP to include duplicate samples, field and trip blanks.

The Monitoring 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 the QAPP. 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.

Cardno ATC can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. Please note that applicable South Carolina certification requirements regarding the services and report preparation must be satisfied. 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.

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 is obtained from the Agency. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the Agency for the cost to be paid. The Agency 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 Agency 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.

Please note, if unnecessary dilutions are completed resulting in reporting limits of individual CoC in excess of Risk-Based Screening Levels (RBSLs), the data cannot be used. In those cases, the Agency may deny payment for any non-detect analysis where the reporting limit exceeds the RBSL. The UST Management Division encourages the use of 'J' values as necessary so the appropriate action can be determined for a release.

The Agency 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 the CoC concentrations based on laboratory analysis are below RBSLs, 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 regarding this site, please reference UST Permit #12458. If you have any questions regarding this correspondence, please contact me by telephone at (803) 898-0608 or by e-mail at minerrs@dhec.sc.gov.

Sincerely,

Read S. Miner

Read S. Miner, P.G., Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Cardno ATC, 400 Northeast Dr., Ste. Q, Columbia, SC 29203 (with enclosure)
Technical File (with enclosure)

Approved Cost Agreement 47670

Facility: 12458 81 FOOD MART

MINERRS

PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
01 PLAN						
		A1	SITE SPECIFIC WORK PLAN	1.0000	150.00	150.00
04 MOB/DEMOB						
		B1	PERSONNEL	2.0000	423.00	846.00
10 SAMPLE COLLECTION						
		A1	GROUNDWATER (PURGE)	47.0000	60.00	2,820.00
		D1	GROUNDWATER NO PURGE/DUPLICATE	3.0000	28.00	84.00
		H1	FIELD BLANK	3.0000	24.60	73.80
11 ANALYSES						
	GW GROUNDWATER	A2	BTEXNM+OXYGS+1,2-DCA+ETH-8260B	56.0000	122.00	6,832.00
		F1	EDB BY 8011	56.0000	45.20	2,531.20
17 DISPOSAL						
		AA	WASTEWATER	300.0000	0.56	168.00
19 RPT/PROJECT MNGT & COORDINATIO						
		PERC	REPORT PREPARATION	0.1000	13,505.00	1,350.50
				Total Amount		14,855.50

Cardno ATC
Shaping the Future

July 1, 2014

Cardno ATC

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Mr. Read S. Miner, P.G., Hydrogeologist
South Carolina Department of Health and Environmental Control
Corrective Action Section
Bureau of Land and Waste Management
UST Management Division
2600 Bull Street
Columbia, South Carolina 29201

UST DIVISION JUL 03 2014

UST DOCKETING 46 tech

RE: Groundwater Monitoring and Well Pad Repair Report
Former Pantry #585 / 81 Food Mart
1502 East Greenville Highway, Anderson, South Carolina
Anderson County
UST Permit ID #12458; CA #47670
Cardno ATC Project No. 14.25384.0585

Dear Mr. Miner:

Cardno ATC, on behalf of The Pantry Inc., is submitting the enclosed Groundwater Monitoring Report for the **Former Pantry #585 / 81 Food Mart**. This report is in accordance with the South Carolina Department of Health and Environmental Control (SCDHEC) directive letter dated April 2, 2014, and documents investigative procedures, field activities, and laboratory analytical results for the May 12, 13, and 31, 2014 groundwater sampling event. If you have any questions or require additional information, please contact the Cardno ATC project manager for the site, Jesse Keeffe, at (803) 735-0003.

Sincerely,
Cardno ATC

Braden Belding

Braden Belding
Staff Geologist
for Cardno ATC
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Jesse L. Keeffe, Jr.

Jesse L. Keeffe, Jr., P.G. #2308
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for Cardno ATC
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cc: Mr. Brent Puzak, Director of Environmental Compliance, The Pantry, Inc.

UST Management Division
July 1, 2014

Cardno ATC
Shaping the Future

Groundwater Monitoring Report
Former Pantry #585 / 81 Food Mart
1502 East Greenville Highway, Anderson, South Carolina
Anderson County
UST Permit ID #12458; CA #47670
Cardno ATC Project No. 14.25384.0585

Prepared By:

Braden Belding
Staff Geologist

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Project Manager

JESSE L. KEEFF
REGISTERED
No. 2308
SOUTH CAROLINA
PROFESSIONAL GEOLOGIST

Submitted To:

State of South Carolina
Department of Health and Environmental Control
Bureau of Land and Waste Management
UST Management Division
Corrective Action Section
2600 Bull Street
Columbia, South Carolina 29201

On Behalf Of:

The Pantry, Inc.
Attn: Brent Puzak
P.O. Box 1410
Cary, North Carolina
Phone: (919) 774-6700

Submitted By:

Cardno ATC
400 Northeast Drive, Unit Q
Columbia, South Carolina 29203
Phone: (803) 735-0003
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Underground Storage Tank Site Rehabilitation Contractor Certification No. 313

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Appendix E	SCDHEC QAPP Appendix M (Project Status Update)

1.0 INTRODUCTION

Cardno ATC was retained by The Pantry, Inc. to perform environmental consulting services at the Former Pantry #585 / 81 Food Mart (site). Cardno ATC has completed monitoring, sampling, and well pad repair activities at the site located at 1502 East Greenville Highway, Anderson, Anderson County, South Carolina (UST Permit #12458). A site topographic map is presented as ***Figure 1*** and a site map depicting pertinent features is presented as ***Figure 2***. The activities were authorized by the South Carolina Department of Health and Environmental Control's (SCDHEC) issuance of a sampling directive for the site dated April 2, 2013. The scope of services included a groundwater sampling event, laboratory testing, and report preparation. The results of the groundwater sampling event, along with recommendations, are included herein.

2.0 SITE DESCRIPTION

2.1 Site Characterization

The site is currently operating as a medical laboratory with underground storage tanks (USTs) having been removed. The site is owned by Dbouk Wajda and Joumana of 1502 East Greenville Highway, Anderson, South Carolina (Parcel number 1480902006). The site is located at the intersection of S.C. Highway 81 and McLees Road in Anderson, Anderson County, South Carolina. The surrounding area includes developed commercial properties and a residential property to the east of the site.

2.2 Site Background

The release was reported on November 10, 1992. Following confirmation of the release, soil and groundwater assessments were conducted. Most recently, SCDHEC issued a directive for the preparation of a Quality Assurance Program Plan (QAPP) contractor addendum (QAPPA) for a comprehensive sampling event. On March 26, 2014, Cardno ATC submitted the QAPPA which was approved by SCDHEC on March 28, 2014. On April 2, 2014, SCDHEC issued a Groundwater Sampling Directive requesting the completion of a groundwater sampling event at the site. Per SCDHEC's request, this report documents a groundwater sampling event conducted on May 12, 13, and 31, 2014.

2.3 Well Pad Maintenance

On May 31, 2014, Cardno ATC completed work to find and repair monitoring wells onsite which had been either damaged or concealed by concrete paving. Monitoring Wells 12458 DMW-1 and 12458 MW-22D were found approximately a foot under the concrete parking lot. These wells were raised to surface grade and their pads were repaired. Monitoring Wells 12458 MW-23 and 12458 MW-24 had broken concrete inside the well vault restricting access to the casing. The concrete was removed and the well pad was repaired or replaced as appropriate. However, monitoring wells 12458 MW-10, 12458 MW-29, and 12458 MW-31 could not be located during this event due to false magnehelic readings due to ¾" steel rebar within the concrete pavement.

3.0 GROUNDWATER CHARACTERIZATION

3.1 Groundwater Levels

On May 12, 13, and 31, 2014, groundwater levels were gauged in monitoring wells 12458 MW-PL-1, 12458 MW-PL-2, 12458 MW-PL-3, 12458 MW-1, 12458 MW-2, 12458 MW-3, 12458 MW-4, 12458 MW-5, 12458 MW-6, 12458 MW-7, 12458 MW-8, 12458 MW-9, 12458 MW-11, 12458 MW-12, 12458 MW-13, 12458 MW-14, 12458 MW-15, 12458 MW-16, 12458 MW-17, 12458 MW-18D, 12458 MW-19D, 12458 MW-20D,12458 MW-21D, 12458 MW-22D, 12458 MW-23, 12458 MW-24, 12458 MW-25, 12458 MW-26, 12458 MW-27, 12458 MW-28, 12458 MW-30, 12458 DMW-1, 12458 DMW-2, 12458 DMW-3, 12458 KMO-3, 12458 KMO-5, 12458 KMO-6, 12458 KMO-10, 12458 KMO-11, 12458 KMO-12, 12458 KMO-17, and 12458 KMO-18. An oil/water interface probe was used to measure the depths to water and free-phase product, which was present at the time of the gauging event in Monitoring Wells 12458 MW-1, 12458 MW-5, 12458 MW-6, 12458 MW-8, 12458 MW-9, 12458 MW-11, and 12458 MW-30 (with an approximate thickness of 0.46, 1.53, 0.65, 0.25, 0.49, 0.23, and 1.88 feet respectively). Monitoring wells 12458 MW-10, 12458 MW-29, and 12458 MW-31 could not be located due to the steel rebar in the concrete. Monitoring wells 12458 DMW-4 could not be located and appears to have been destroyed. Depths were measured from the top of the well casings. The locations of the monitoring wells are shown in ***Figure 2***. Monitoring well construction details and current groundwater elevation data are included in ***Table 1***. Groundwater elevation contour maps are based on the May 12, 13, and 31, 2014 data is presented as ***Figure 3***. Groundwater flow direction is in a south to southwestern direction across the site. The Hydraulic Gradient as measured between monitoring wells 12458 KMO-6 and 12458 KMO-11 is estimated to be 0.055 feet per foot.

3.2 Groundwater Quality

On May 12, 13, and 31, 2014, groundwater samples were collected from monitoring wells 12458 MW-PL-1, 12458 MW-PL-2, 12458 MW-PL-3, 12458 MW-2, 12458 MW-3, 12458 MW-4, 12458 MW-7, 12458 MW-12, 12458 MW-13, 12458 MW-14, 12458 MW-15, 12458 MW-16, 12458 MW-17, 12458 MW-18D, 12458 MW-19D, 12458 MW-20D, 12458 MW-21D, 12458 MW-25, 12458 MW-26, 12458 MW-27, 12458 MW-28, 12458 DMW-2, 12458 DMW-3, 12458 KMO-3, 12458 KMO-5, 12458 KMO-6, 12458 KMO-10, 12458 KMO-11, 12458 KMO-12, 12458 KMO-17, and 12458 KMO-18.

Groundwater samples were collected from monitoring wells 12458 MW-22D, 12458 MW-23, 12458 MW-24, and 12458 DMW-1 on May 31, 2014 (after the missing well locating and well pad repair/replacement activities). New disposable polyethylene bailers were used for the collection of the water samples from monitoring wells. The groundwater monitoring wells were purged of three casing volumes, bailed for dryness, or purged until field parameters reached ten percent equilibrium prior to sample collection. During groundwater collection, Cardno ATC collected pH, specific conductivity, water temperature, and dissolved oxygen measurements. These measurements for each well are recorded in the field data information sheets included in ***Appendix A***. New disposable nitrile gloves were used to maintain sample integrity during the sampling process.

The groundwater and quality assurance samples were transported under chain of custody to Accutest Laboratories [500 Ambassador Caffery Parkway, Scott, Louisiana 70583, South Carolina Laboratory Certification Number 73004001, (337) 237-4775]. The groundwater samples were analyzed for the volatile organic compounds benzene, toluene, ethylbenzene, total xylenes (BTEX), methyl tert-butyl ether (MTBE), naphthalene, 1,2-dichloroethane (1,2-DCA) and the 8 oxygenates by EPA Method 8260B; and additionally analyzed for 1,2-dibromoethane (EDB) by EPA method 8011. Copies of the laboratory analytical results for groundwater quality and chain-of-custody documentation are included in ***Appendix B.***

Groundwater analytical results for the May 12, 13, and 31, 2014 sampling event are summarized in ***Table 2***. The groundwater samples that exceeded the SCDHEC RBSLs are summarized as follows:

- Benzene — 12458 MW-12, 12458 MW-13, 12458 MW-17, 12458 MW-23, 12458 MW-24, 12458 MW-25, 12458 MW-27, 12458 DMW-1, 12458 DMW-2, 12458 KMO-3, and 12458 KMO-17;
- Toluene — 12458 MW-12, 12458 MW-17, and 12458 MW-27;
- Ethylbenzene — 12458 MW-12, 12458 MW-13, 12458 MW-17, and 12458 MW-27;
- Naphthalene — 12458 MW-12, 12458 MW-13, 12458 MW-17, 12458 MW-24, 12458 MW-25, 12458 MW-27, and 12458 KMO-17;
- MTBE — 12458 MW-12, 12458 MW-23, 12458 MW-24, 12458 MW-27, and 12458 KMO-3;
- Diisopropyl ether — 12458 MW-12 and 12458 MW-24;
- Tert-Butyl Alcohol — 12458 MW-12;
- Tert-Amyl Alcohol — 12458 MW-12, 12458 MW-13, 12458 MW-17, 12458 MW-23, 12458 MW-24, 12458 MW-25, and 12458 MW-27.

A chemicals of concern (CoC) in groundwater map is included as ***Figure 4***. Historical groundwater analytical results are summarized in ***Table 3***. All purge water was filtered through a granular activated carbon unit for proper disposal. A waste disposal certificate for the purge water is included in ***Appendix C***.

4.0 DATA VALIDATION AND USABILITY

4.1 Data Validation

To ensure adherence to the methodologies described in the QAPPA, a contractor checklist (SCDHEC Programmatic QAPP Appendix K) was completed and is included in ***Appendix D.***

4.2 Quality Assurance Analysis

The project sample design, field procedures, and laboratory data were reviewed for quality assurance and data usability using the six data quality indicators (DQIs) described in Section A7 of the SCDHEC Programmatic QAPP requirements. The results of the quality assurance analysis are described below.

4.3 Precision

The precision of the laboratory data was evaluated by comparing the relative percent difference (RPD) between using a sample and a field duplicate sample. The sample locations were selected based on previous analytical results. The field duplicate sample DUP-1 was collected from Monitoring Well 12458 MW-17, field duplicate sample DUP-2 was collected from Monitoring Well 12458 MW-12, as well as field duplicate sample DUP was collected from Monitoring Well 12458 MW-23 and submitted for analysis of BTEX, MTBE, naphthalene, 1,2-DCA , the 8 oxygenates, and EDB. The RPD was calculated using the formula:

$$PD\ (\%) = Absolute\ value\ of \left(\frac{(C_S - C_D)}{((C_S - C_D)/2)}\right) x\ 100$$

Where: C_S = Concentration of the sample

C_D = Concentration of the duplicate sample

The RPDs were compared to the limits established in Appendix E of the SCDHEC Programmatic QAPP. The results of the Precision Analysis are included in ***Table 4***. The RPD indicates all sampled wells are within the acceptable range between the well samples and duplicate samples except for Benzene, Toluene, Ethylbenzene, MTBE, Diisopropyl ether, t-Butyl alcohol, and tert-

Amyl alcohol. Please see ***Appendix E*** for the Project Status Update Form regarding the exceeded the RPD limit for the respective chemicals of concern.

4.4 Bias

Bias analysis of the data can indicate accuracy of the laboratory measurement system. The results of the analysis of the trip blank indicate that there were no sources of error in the sampling process, preservation, handling, sample preparation and analytical techniques. The results of the bias analysis of the field and trip blanks are included in ***Table 4***.

4.5 Representativeness

The site monitoring well network was designed to allow representative samples to be collected from the site and the surrounding area. Field personnel have been instructed to log data, label containers, and enter samples on the chains-of-custody immediately upon collection to reduce potential for sample location or other representativeness errors. Proper preservation techniques, including preservative use and immediate icing of samples are also employed. Samples were collected and analyzed in accordance with the QAPPA. The data collected and presented in this report meet the QAPP criteria for representativeness.

4.6 Completeness

The dataset meets the completeness criteria based on the purpose of the sampling event because each available monitoring well that did not contain free product and which could be located was sampled. The purpose of the sampling event was to monitoring the petroleum impact to groundwater.

4.7 Comparability

The results of laboratory analysis of groundwater at the site between November 2000 and May 31, 2014 are included in this report. The samples were collected using the same field protocols, analyzed using the same EPA Methods, and the data is reported in micrograms per Liter (µg/L) to allow for easy comparison. In general, trends of impact conditions show that effects of natural migration and attenuation of impact are consistent with a petroleum release in the South Carolina geographic setting. Concentrations between individual monitoring events show modest changes reflective of natural attenuation or reasonable data fluctuations from sorption and desorption effects

during water level changes or from other natural variations. The comparability criteria have generally been met.

4.8 Method Sensitivity

Laboratory method detection limits and reporting limits were reviewed and compared to the limits established in Appendix E of the SCDHEC Programmatic QAPP. The results of the Method Sensitivity analysis are included in ***Table 4***. The analytical dataset met the QAPP sensitivity limits. The analytical dataset met the QAPP sensitivity limits.

5.0 SUMMARY

During this reporting period Cardno ATC conducted monitoring well sampling at the site. Based on field activities and laboratory results Cardno ATC concludes the following:

- Groundwater flow direction is in a south to southwestern direction across the site with an estimated hydraulic gradient of 0.055 feet per foot;
- Free product was detected during the May 12, 13, and 31, 2014 sampling event in monitoring wells 12458 MW-1, 12458 MW-5, 12458 MW-6, 12458 MW-8, 12458 MW-9, 12458 MW-11, and 12458 MW-30 with an approximate thickness of 0.46, 1.53, 0.65, 0.25, 0.49, 0.23, and 1.88 feet respectively;
- Benzene exceeded its RBSL in monitoring wells 12458 MW-12, 12458 MW-13, 12458 MW-17, 12458 MW-23, 12458 MW-24, 12458 MW-25, 12458 MW-27, 12458 DMW-1, 12458 DMW-2, 12458 KMO-3, and 12458 KMO-17;
- Toluene exceeded its RBSL in monitoring wells 12458 MW-12, 12458 MW-17, and 12458 MW-27;
- Ethylbenzene exceeded its RBSL in monitoring wells 12458 MW-12, 12458 MW-13, 12458 MW-17, and 12458 MW-27;
- MTBE exceeded its RBSL in monitoring wells 12458 MW-12, 12458 MW-23, 12458 MW-24, 12458 MW-27, and 12458 KMO-3;
- Naphthalene exceed its RBSL in monitoring wells 12458 MW-12, 12458 MW-13, 12458 MW-17, 12458 MW-24, 12458 MW-25, 12458 MW-27, and 12458 KMO-12;
- Tert-amyl alcohol exceeded its RBSL in monitoring wells 12458 MW-12, 12458 MW-13, 12458 MW-17, 12458 MW-23, 12458 MW-24, 12458 MW-25, and 12458 MW-27;
- Tert-butyl alcohol exceeded its RBSL in monitoring well 12458 MW-12;
- Diisopropyl ether exceeded its RBSL in monitoring wells 12458 MW-12 and 12458 MW-24.

Based on the groundwater results, overall contaminant concentrations do appear to be decreasing. However, free product is present in monitoring wells 12458 MW-1, 12458 MW-5, 12458 MW-6, 12458 MW-8, 12458 MW-9, 12458 MW-11, and 12458 MW-30. Cardno ATC recommends continued groundwater sampling on a semi-annual basis to monitor contaminant concentrations and the

completion of a series of aggressive fluid vapor recovery (AFVR) events at the monitor wells that historically have contained free product.

TABLES

Table 1
Groundwater Elevation Data
Pantry #585 (81 Food Mart)
1502 East Greenville Street
Anderson, Anderson County, South Carolina
UST Permit #12458

Well Identification	Date Measured	Top of Casing Elevation, ft	Total Well Depth, ft	Screened interval, ft	Depth to Product, ft (1)	Product Thickness, ft	Depth to Water, ft (2)	Groundwater Elevation, ft
12458 MW-PL-1	05/12/2014	86 55	13	3-13	NP	NP	6 15	80 40
	04/28/2011				NP	NP	8 22	78 33
12458 MW-PL-2	05/12/2014	84 05	13	3-13	NP	NP	5 45	78 60
	04/28/2011				NP	NP	5 94	78.11
12458 MW-PL-3	05/12/2014	82 56	13	3-13	NP	NP	5 00	77 56
	04/28/2011				NP	NP	5 46	77 10
12458 MW-1	05/13/2014	94 87	25	15-25	9 89	0 46	10 35	84 52
	06/15/2011				11 11	0 62	11 73	83 14
	11/15/2007				13 47	0 26	13 73	81 14
12458 MW-2	05/13/2014	94 78	20	10-20	NP	NP	8 55	86 23
	06/15/2011				NP	NP	10 72	84 06
	11/15/2007				NP	NP	12 91	81 87
12458 MW-3	05/13/2014	91 60	15	5-15	NP	NP	6 15	85 45
	06/15/2011				NP	NP	8 04	83 56
	11/15/2007				NP	NP	10 28	81 32
12458 MW-4	05/13/2014	91 77	15	5-15	NP	NP	7 25	84 52
	06/15/2011				NP	NP	9 04	82 73
	11/15/2007				NP	NP	11 06	80 71
12458 MW-5	05/13/2014	94 34	15	5-15	9 57	1 53	11 10	83 24
	06/15/2011				11 31	0 23	11 54	82 80
	11/15/2007				NP	NP	14 23	80 11
12458 MW-6	05/12/2014	95 34	18	8-18	10 45	0 65	11 10	84 24
	06/15/2011				12 01	0 26	12 27	83 07
	11/15/2007				NP	NP	14 23	81 11
12458 MW-7	05/12/2014	95 80	15	5-15	8 05	0 25	8 3	87 50
	06/15/2011				9 58	0 23	9 81	85 99
	11/15/2007				NP	NP	11 37	84 43
12458 MW-8	05/12/2014	95 80	15	5-15	NP	NP	7 68	88 12
	06/15/2011				NP	NP	9 41	86 39
	11/15/2007				11 55	0 31	11 86	83.94
12458 MW-9	05/12/2014	94 36	17	7-17	9 04	0 49	9 53	84 83
	06/15/2011				NP	NP	12 14	82 22
	11/15/2007				NP	NP	13 29	81 07
12458 MW-10	05/12/2014	94 29	17	7-17	N/A	N/A	N/A	N/A
	06/15/2011				11.1	0 12	11 22	83 07
	11/15/2007				11 55	1 76	13 31	80 98
12458 MW-11	05/12/2014	94 71	17	7-17	10 05	0 23	10 28	84 43
	06/15/2011				N/A	N/A	N/A	N/A
	11/15/2007				13 38	0 3	13 68	81 03
12458 MW-12	05/13/2014	92 18	17	7-17	NP	NP	8 55	83 63
	06/15/2011				NP	NP	10 29	81 89
	11/15/2007				NP	NP	12 26	79 92
12458 MW-13	05/12/2014	90 12	13	3-13	NP	NP	7 15	82 97
	06/15/2011				NP	NP	8 62	81 50
	11/15/2007				NP	NP	10 57	79 55
12458 MW-14	05/12/2014	Unk	25	15-25	NP	NP	12 25	Unk
12458 MW-15	05/12/2014	Unk	25	15-25	NP	NP	9 75	Unk
12458 MW-16	05/13/2014	Unk	20	10-20	NP	NP	7 55	Unk
12458 MW-17	05/12/2014	Unk	20	10-20	NP	NP	10 3	Unk
12458 MW-18D	05/13/2014	Unk	80	75-80	NP	NP	7 58	Unk
12458 MW-19D	05/13/2014	Unk	48	43-48	NP	NP	10 41	Unk
12458 MW-20D	05/13/2014	Unk	47	42-47	NP	NP	9 75	Unk
12458 MW-21D	05/12/2014	Unk	47	42-47	NP	NP	8 15	Unk
12458 MW-22D	05/31/2014	Unk	47	42-47	NP	NP	6 73	Unk
12458 MW-23	05/31/2014	90 79	18	8-18	NP	NP	6 71	84 08
	06/15/2011				NP	NP	8 4	82 39
12458 MW-24	05/31/2014	91 49	20	10-20	NP	NP	7 27	84 22
	06/15/2011				8 76	0 15	8 91	82 58
12458 MW-25	05/13/2014	Unk	20	10-20	NP	NP	10	Unk
12458 MW-26	05/13/2014	Unk	20	10-20	NP	NP	6 69	Unk
12458 MW-27	05/13/2014	Unk	21	11-21	NP	NP	8 25	Unk
12458 MW-28	05/31/2014	Unk	20	10-20	NP	NP	8 76	Unk
12458 MW-30	05/12/2014	Unk	20	10-20	8 7	1 88	10 58	Unk
12458 MW-31	05/31/2014	92 79	20	5-15	N/A	N/A	N/A	N/A
	06/15/2011				NP	NP	10 21	82.58
12458 DMW-1	05/31/2014	94 71	78	73-78	NP	NP	9 81	84 90
	11/15/2007				NP	NP	13 49	81.22
12458 DMW-2	05/13/2014	Unk	80	75-80	NP	NP	10 66	Unk
	11/15/2007	Unk			NP	NP	13 76	Unk
12458 DMW-3	05/13/2014	Unk	112	107-112	NP	NP	10 25	Unk
12458 KMO-3	05/12/2014	87 86	14	4-14	NP	NP	5 8	82 06
	04/28/2011				NP	NP	7 28	80 58

(1) Depth to water measured from top of casing
(2) Depth to water corrected for presence of product using density corrective factor of 0 73 g/cc
(3) NP free product not present
(4) Unk = Unknown

Table 1
Groundwater Elevation Data
Pantry #585 (81 Food Mart)
1502 East Greenville Street
Anderson, Anderson County, South Carolina
UST Permit #12458

Well Identification	Date Measured	Top of Casing Elevation, ft	Total Well Depth, ft	Screened interval, ft	Depth to Product, ft (1)	Product Thickness, ft	Depth to Water, ft (2)	Groundwater Elevation, ft
12458 KMO-5	05/12/2014	88 22	14	4-14	NP	NP	5 75	82 47
	04/28/2011				NP	NP	7 52	80 70
12458 KMO-6	05/12/2014	86 17	15	5-15	NP	NP	6 15	80 02
	04/28/2011				NP	NP	7 15	79 02
12458 KMO-10	05/12/2014	84 63	15	5-15	NP	NP	8 25	76 38
	04/28/2011				NP	NP	5 85	78 78
12458 KMO-11	05/12/2014	83 38	12	2-12	NP	NP	5 85	77 53
	04/28/2011				NP	NP	6 02	77 36
12458 KMO-12	05/12/2014	85 45	15	5-15	NP	NP	5 5	79 95
	04/28/2011				NP	NP	5 93	79 52
12458 KMO-17	05/12/2014	87 79	15	5-15	NP	NP	7 15	80 64
	04/28/2011				NP	NP	7 88	79 91
	11/15/2007				NP	NP	10 13	77 66
12458 KMO-18	05/12/2014	85 93	15	5-15	NP	NP	5 45	80 48
	04/28/2011				NP	NP	5 77	80 16
	04/28/2011				NP	NP	8 36	77 57

(1) Depth to water measured from top of casing
(2) Depth to water corrected for presence of product using density corrective factor of 0 73 g/cc
(3) NP. free product not present
(4) Unk = Unknown

Table 2
Groundwater Analytical Results
Former Pantry #585
1502 East Greenville Street
Anderson, Anderson County, South Carolina
UST Permit #12458

Well ID	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naph-thalene	EDB	1,2 DCA	3,3-Dimethyl-1-butanol	di-Isopropyl ether	Ethanol	t-Butyl alcohol	tert-Amyl alcohol	tert-Amyl ethyl ether	Ethyl tert-butyl ether	tert Butyl formate
12458 MW-PL-1	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
12458 MW-PL-2	05/12/2014	< 1	< 1	< 1	< 2	17	< 5	< 0 022	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
12458 MW-PL-3	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 022	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
12458 MW-2	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
12458 MW-3	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
12458 MW-4	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 022	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
12458 MW-7	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
12458 MW-12	05/13/2014	23,000	22,000	2,000	8,100	12,000	540	< 0 022	< 500	< 1000	2,300	< 10000	9,400	51,000	< 500	< 500	< 100
12458 MW-13	05/12/2014	2,900	860	720	990	< 5	280	< 0 021	< 25	< 50	28	< 500	< 50	1,800	< 25	< 25	< 5
12458 MW-14	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
12458 MW-15	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
12458 MW-16	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
12458 MW-17	05/12/2014	5,900	24,000	2,100	11,900	< 100	820	< 0 021	5,000	< 1000	< 500	< 10000	< 1000	5,900	< 500	< 500	< 100
12458 MW-18D	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
12458 MW-19D	05/13/2014	< 1	1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
12458 MW-20D	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
12458 MW-21D	05/12/2014	< 1	< 1	< 1	< 2	1 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
12458 MW-22D	05/31/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 023	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
12458 MW-23	05/31/2014	34	21	9 1	63	83	10	< 0 022	< 5	< 10	14	< 100	< 10	290	< 5	< 5	< 1
12458 MW-24	05/31/2014	680	92	19	83	3,100	33	< 0 023	< 5	< 10	350	< 100	< 10	12,000	61	< 5	< 1
12458 MW-25	05/13/2014	53	43	17	154	< 1	28	< 0 022	< 5	< 10	< 5	< 100	< 10	240	< 5	< 5	< 1
12458 MW-26	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
12458 MW-27	05/13/2014	1,200	2,600	950	5,600	120	650	< 0 022	< 50	< 100	58	< 1000	< 100	810	< 50	< 50	< 10
12458 MW-28	05/31/2014	< 1	< 1	< 1	< 2	8 3	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
12458 DMW-1	05/31/2014	19	23	2 3	16 2	16	< 5	< 0 023	< 5	< 10	< 5	< 100	14	13	< 5	< 5	< 1
12458 DMW-2	05/13/2014	6 2	37	12	74	< 1	6 6	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
12458 DMW-3	05/13/2014	< 1	1 3	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
12458 KMO-3	05/12/2014	80	1 5	13	12 3	74	12	< 0 022	< 5	< 10	62	< 100	160	35	5 4	< 5	< 1
12458 KMO-5	05/12/2014	1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	15	160	< 5	< 5	< 1
12458 KMO-6	05/12/2014	< 1	< 1	< 1	< 2	6 2	< 5	< 0 021	< 5	< 10	6 8	< 100	29	32	< 5	< 5	< 1
12458 KMO-10	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
12458 KMO-11	05/12/2014	< 1	< 1	< 1	< 2	3	< 5	< 0 023	< 5	< 10	< 5	< 100	< 10	11	< 5	< 5	< 1
12458 KMO-12	05/12/2014	< 1	< 1	< 1	< 2	19	< 5	< 0 021	< 5	< 10	18	< 100	130	170	< 5	< 5	< 1
12458 KMO-17	05/12/2014	13	95	80	188	< 1	38	< 0 021	< 5	< 10	< 5	< 100	< 10	41	< 5	< 5	< 1
12458 KMO-18	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
RBSL		5	1,000	700	10,000	40	25	0 05	NE	NE	70	2,000	1,400	240	128	47	NE

Notes
1. Units = µg/L
2. MTBE = Methyl Tertiary Butyl Ether, EDB = 1,2-Dibromoethane
3. "<" = Not detected at or above the laboratory reporting limit
4. J = Result is less than the Reporting Limit but greater than or equal to the Method detection limit
5. RBSL = May 15, 2001 Risk Based Screening Level
6. Bold concentrations equal or exceed the corresponding RBSL
7. NE = Not established
8. NSP = Well not sampled-due to free product
9. NSD = Well not sampled-dry
10. NSI = Well not sampled-inaccessable during sampling event

Table 3
Historical Groundwater Analytical Results
Former Pantry #585
1502 East Greenville Street
Anderson, Anderson County, South Carolina
UST Permit #12458

Well ID	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naphthalene	EDB
12458 MW-PL-1	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021
	04/28/2011	< 1	< 1	< 1	< 2	< 1	< 5	<0 046
12458 MW-PL-2	05/12/2014	< 1	< 1	< 1	< 2	17	< 5	< 0 022
	04/28/2011	< 1	< 1	< 1	< 2	< 1	< 5	<0 044
12458 MW-PL-3	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 022
	04/28/2011	< 1	< 1	< 1	< 2	< 1	< 5	<0 043
12458 MW-1	05/12/2014	NSP	NSP	NSP	NSP	NSP	NSP	NSP
	11/15/2007	6200	8600	1600	7200	2400	810	NS
	April 2007	NS	NS	NS	NS	NS	NS	NS
	June 2006	NS	NS	NS	NS	NS	NS	NS
	November 2000	7050	13100	1590	7590	2470	610	NS
12458 MW-2	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021
	11/15/2007	<1	<1	<1	<1	<1	<5	NS
	April 2007	<5	<5	<5	<5	<5	<5	NS
	June 2006	<5	<5	<5	<5	<5	<5	NS
	November 2000	2 1	25	5 1	39 6	<2	14 9	NS
12458 MW-3	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021
	11/15/2007	< 1	< 1	< 1	<1	< 1	< 5	NS
	April 2007	<5	<5	<5	<5	<5	<5	NS
	June 2006	<5	<5	<5	<5	<5	<5	NS
	November 2000	<2	4 1	<2	<2	<2	15 9	NS
12458 MW-4	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 022
	11/15/2007	3400	2900	870	1770	890	340	NS
	April 2007	2200	2100	530	930	660	180	NS
12458 MW-5	11/15/2007	22000	30000	2500	14600	160	<500	NS
	April 2007	NS	NS	NS	NS	NS	NS	NS
12458 MW-6	11/15/2007	620	1500	260	1080	19	75	NS
	April 2007	2800	24000	3100	13200	<1000	2000	NS
12458 MW-7	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021
	11/15/2007	<1	<1	<1	<1	<1	<5	NS
	April 2007	<5	<5	<5	<5	<5	<5	NS
12458 MW 12	05/13/2014	23,000	22,000	2,000	8,100	12,000	540	< 0 022
12458 MW 13	05/12/2014	2,900	860	720	990	< 5	280	< 0 021
12458 MW 14	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021
12458 MW-15	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021
12458 MW-16	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021
12458 MW-17	05/12/2014	5,900	24,000	2,100	11,900	< 100	820	< 0 021
12458 MW-18D	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021
12458 MW-19D	05/13/2014	< 1	1	< 1	< 2	< 1	< 5	< 0 021
12458 MW-20D	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021
12458 MW-21D	05/12/2014	< 1	< 1	< 1	< 2	1 1	< 5	< 0 021
12458 MW-22D	05/31/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 023
12458 MW-23	05/31/2014	34	21	9 1	83	83	10	< 0 022
12458 MW-24	05/31/2014	680	92	19	83	3,100	33	< 0 023
12458 MW-25	05/13/2014	53	43	17	154	< 1	28	< 0 022
12458 MW-26	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021
12458 MW 27	05/13/2014	1,200	2,600	950	5,600	120	650	< 0 022
12458 MW 28	05/31/2014	< 1	< 1	< 1	< 2	8 3	< 5	< 0 021
12458 DMW-1	05/31/2014	19	23	2 3	16 2	16	< 5	< 0 023
	11/15/2007	300	490	90	420	210	31	NS
	April 2007	13	19	<5	<5	<5	<5	NS
12458 DMW-2	05/13/2014	6 2	37	12	74	< 1	6 6	< 0 021
12458 DMW 3	05/13/2014	< 1	1 3	< 1	< 2	< 1	< 5	< 0 021
12458 KMO-3	05/12/2014	80	1 5	13	12 3	74	12	< 0 022
	04/28/2011	NS	NS	NS	NS	NS	NS	NS
12458 KMO-5	05/12/2014	1	< 1	< 1	< 2	< 1	< 5	< 0 021
	04/28/2011	NS	NS	NS	NS	NS	NS	NS
12458 KMO-6	05/12/2014	< 1	< 1	< 1	< 2	6 2	< 5	< 0 021
	04/28/2011	NS	NS	NS	NS	NS	NS	NS
12458 KMO-10	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021
	04/28/2011	NS	NS	NS	NS	NS	NS	NS
12458 KMO-11	05/12/2014	< 1	< 1	< 1	< 2	3	< 5	< 0 023
	04/28/2011	NS	NS	NS	NS	NS	NS	NS
12458 KMO-12	05/12/2014	< 1	< 1	< 1	< 2	19	< 5	< 0 021
	04/28/2011	NS	NS	NS	NS	NS	NS	NS
12458 KMO-17	05/12/2014	13	95	80	188	< 1	38	< 0 021
	04/28/2011	NS	NS	NS	NS	NS	NS	NS
12458 KMO-18	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021
	04/28/2011	NS	NS	NS	NS	NS	NS	NS
RBSL		5	1,000	700	10,000	40	25	0 05

Notes
1 Units = µg/L
2 MTBE = Methyl Tertiary Butyl Ether; EDB = 1 2-Dibromoethane
3 "<" = Not detected at or above the laboratory reporting limit
4 J = Result is less than the Reporting Limit but greater than or equal to the Method detection limit
5 RBSL = May 15, 2001 Risk Based Screening Level
6 Bold concentrations equal or exceed the corresponding RBSL
7 NE = Not established
8 NSP = Well not sampled-due to free product
9 NSD = Well not sampled-dry
10 NSI = Well not sampled-inaccessable during sampling event

Table 4
Data Quality Indicator Analysis
Former Pantry #585
Anderson, Anderson County, South Carolina
UST Permit #12458

Well Location	Sample Date	Petroleum Constituents (ug/L)									Oxygenates (ug/L)							Comments / Notes
		Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene (8260)	1,2 - Dibromoethane (EDB)	1,2 - Dichloroethane (DCA)	3,3-Dimethyl-1-butanol	Diisopropyl ether	Ethanol	t-Butyl alcohol	tert-Amyl alcohol	tert-Amyl ethyl ether	ethyl tert-Butyl ether	tert-Butyl formate	
Precision Analysis																		
Precision Limit (RPD %)		**20**	**20**	**20**	**20**	**20**	**20**		**20**	**20**	**20**		**20**	**20**	**20**	**20**	**20**	All constituents except for Benzene, Toluene, Ethylbenzene, MTBE, Diisopropyl ether, t-Butyl alcohol, and tert-Amyl alcohol within 20% RPD
12458 MW-17	05/12/2014	5,900	24,000	2,100	11,900	< 100	820	< 0 021	5,000	< 1000	< 500	< 10000	< 1000	5,900	< 500	< 500	< 100	
DUP-1	05/12/2014	6,600	25,000	2,200	12,500	< 100	860	< 0 021	< 500	< 1000	< 500	< 10000	< 1000	7,300	< 500	< 500	< 100	
RPD (%)		11%	4%	5%	5%	---	5%	---	---	---	---	---	---	21%	---	---	---	
12458 MW-12	05/13/2014	23,000	22,000	2,000	8,100	12,000	540	< 0 022	< 500	< 1000	2,300	< 10000	9,400	51,000	< 500	< 500	< 100	
DUP-2	05/13/2014	21,000	19,000	1,800	7,400	13,000	520	< 0 021	< 500	< 1000	2,400	< 10000	12,000	58,000	< 500	< 500	< 100	
RPD (%)		9%	15%	11%	9%	8%	4%	---	---	---	4%	---	24%	13%	---	---	---	
12458 MW-23	05/31/2014	34	21	9 1	63	83	10	< 0 022	< 5	< 10	14	< 100	< 10	290	< 5	< 5	< 1	
DUP	05/31/2014	48	54	7 3	73	48	9	< 0 021	< 5	< 10	6 8	< 100	41	200	< 5	< 5	< 1	
RPD (%)		34%	88%	22%	15%	53%	11%	---	---	---	69%	---	---	37%	---	---	---	
Bias Analysis																		
Trip Blank	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	NA	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	No Errors Indicated
Trip Blank	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	NA	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	No Errors Indicated
Trip Blank	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	NA	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	No Errors Indicated
Trip Blank	05/31/2014	< 1	< 1	< 1	< 2	< 1	< 5	NA	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	No Errors Indicated
Field Blank	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	No Errors Indicated
Field Blank	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	No Errors Indicated
Field Blank	05/31/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	No Errors Indicated
Method Sensitivity																		
Sensitivity Limits (GW - µg/L)		**<1**	**<1**	**<1**	**<2**	**<1**	**<5**		**<5**	**<0 021**	**<10**		**<5**	**<10**	**<10**	**<100**	**<5**	
12458 MW-PL-1	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	
12458 MW-PL-2	05/12/2014	< 1	< 1	< 1	< 2	17	< 5	< 0 022	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	
12458 MW-PL-3	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 022	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	
12458 MW-2	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	
12458 MW-3	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	
12458 MW-4	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 022	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	
12458 MW-7	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	
12458 MW-12	05/13/2014	23,000	22,000	2,000	8,100	12,000	540	< 0 022	< 500	< 1000	2,300	< 10000	9,400	51,000	< 500	< 500	< 100	100X Dilution Factor
12458 MW-13	05/12/2014	2,900	860	720	990	< 5	280	< 0 021	< 25	< 50	28	< 500	< 50	1,800	< 25	< 25	< 5	5X, 20X Dilution Factor
12458 MW-14	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	
12458 MW-15	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	
12458 MW-16	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	
12458 MW-17	05/12/2014	5,900	24,000	2,100	11,900	< 100	820	< 0 021	5,000	< 1000	< 500	< 10000	< 1000	5,900	< 500	< 500	< 100	100X Dilution Factor
12458 MW-18D	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	
12458 MW-19D	05/13/2014	< 1	1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	
12458 MW-20D	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	
12458 MW-21D	05/12/2014	< 1	< 1	< 1	< 2	1 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	
12458 MW-22D	05/31/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 023	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	
12458 MW-23	05/31/2014	34	21	9 1	63	83	10	< 0 022	< 5	< 10	14	< 100	< 10	290	< 5	< 5	< 1	
12458 MW-24	05/31/2014	680	92	19	83	3,100	33	< 0 023	< 5	< 10	350	< 100	< 10	12,000	61	< 5	< 1	5X, 10X Dilution Factor
12458 MW-25	05/13/2014	53	43	17	154	< 1	28	< 0 022	< 5	< 10	< 5	< 100	< 10	240	< 5	< 5	< 1	
12458 MW-26	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	
12458 MW-27	05/13/2014	1,200	2,600	950	5,600	120	650	< 0 022	< 50	< 100	58	< 1000	< 100	810	< 50	< 50	< 10	10X Dilution Factor
12458 MW-28	05/31/2014	< 1	< 1	< 1	< 2	8 3	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	
12458 DMW-1	05/31/2014	19	23	2 3	16 2	16	< 5	< 0 023	< 5	< 10	< 5	< 100	14	13	< 5	< 5	< 1	
12458 DMW-2	05/13/2014	6 2	37	12	74	< 1	6.6	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	
12458 DMW-3	05/13/2014	< 1	1 3	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	
12458 KMO-3	05/12/2014	80	1 5	13	12 3	74	12	< 0 022	< 5	< 10	62	< 100	160	35	5 4	< 5	< 1	
12458 KMO-5	05/12/2014	1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	15	160	< 5	< 5	< 1	
12458 KMO-6	05/12/2014	< 1	< 1	< 1	< 2	6 2	< 5	< 0 021	< 5	< 10	6 8	< 100	29	32	< 5	< 5	< 1	
12458 KMO-10	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	
12458 KMO-11	05/12/2014	< 1	< 1	< 1	< 2	3	< 5	< 0 023	< 5	< 10	< 5	< 100	< 10	11	< 5	< 5	< 1	
12458 KMO-12	05/12/2014	< 1	< 1	< 1	< 2	19	< 5	< 0 021	< 5	< 10	18	< 100	130	170	< 5	< 5	< 1	
12458 KMO-17	05/12/2014	13	95	80	188	< 1	38	< 0 021	< 5	< 10	< 5	< 100	< 10	41	< 5	< 5	< 1	
12458 KMO-18	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	

Notes

1 Concentrations in µg/L (micrograms per liter)

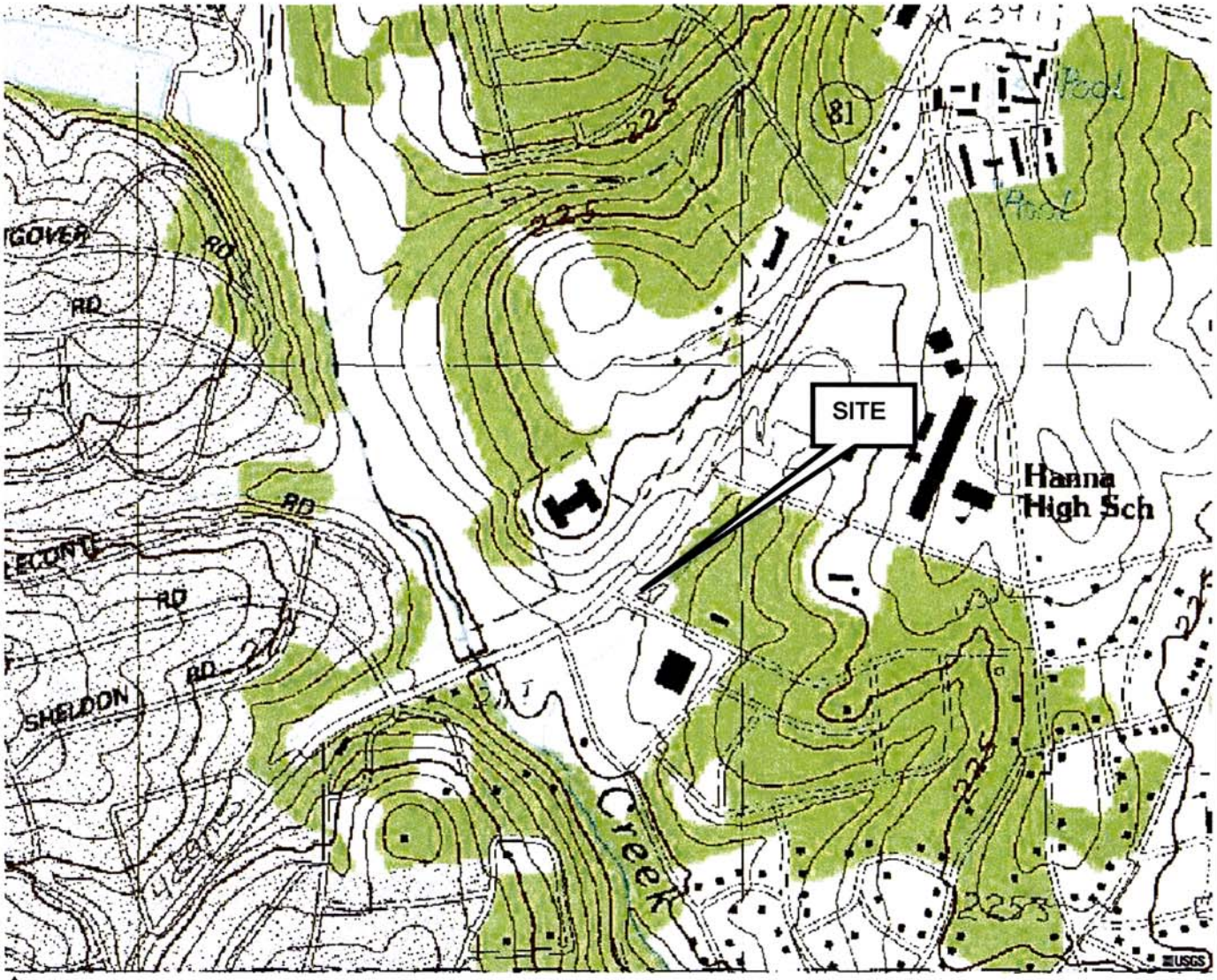
2 "<" = Not present above analytical method detection limit (detection limit in µg/l)

3 J = Estimated result

4 NA = Not Analyzed, NSP = Well not sampled-due to free product, NSD = Well not Sampled-due to Dry Well

5 --- = No Data

FIGURES



↑N

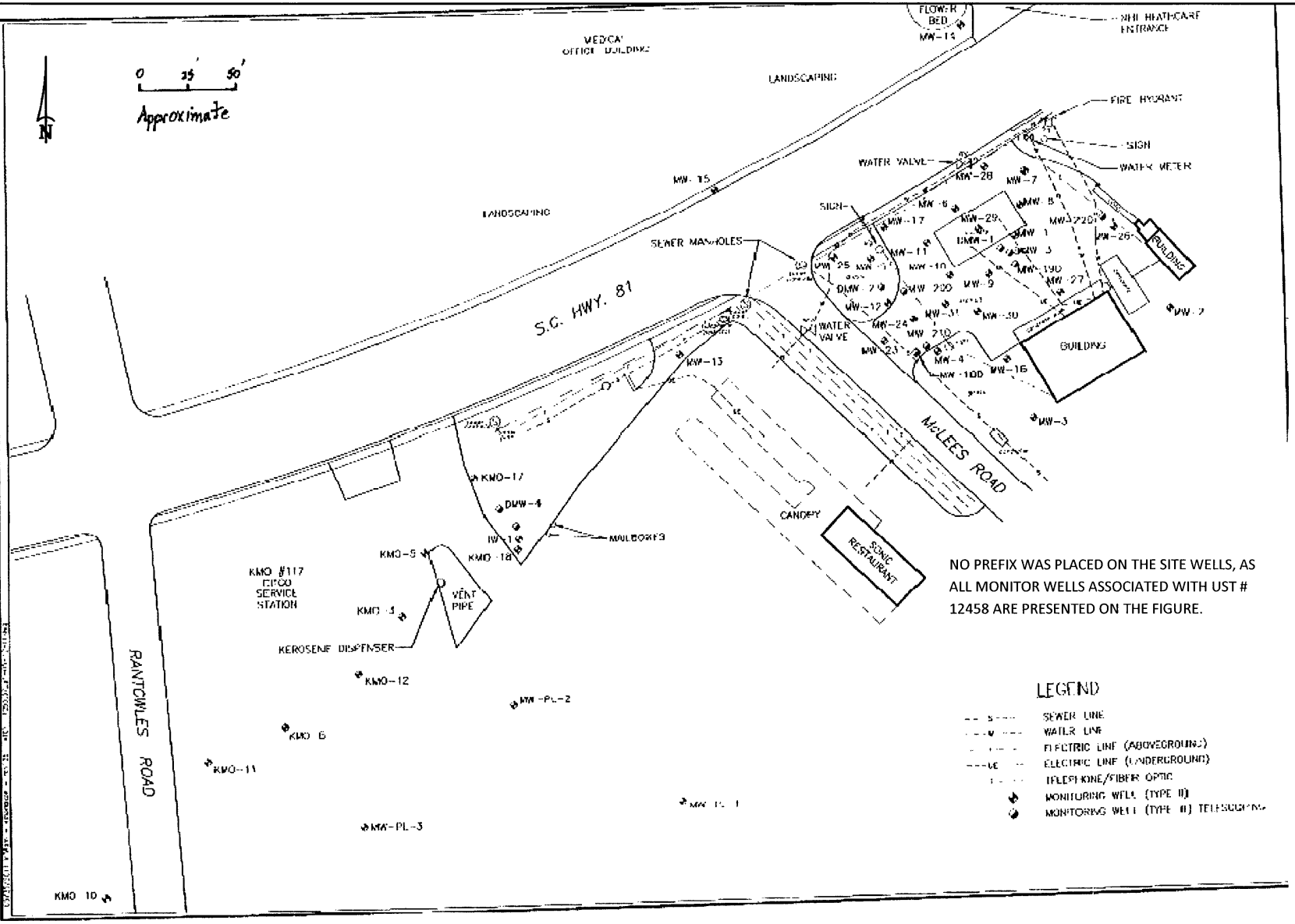
Figure 1: Site Location Map
Pantry #585 (81 Food Mart)
1502 East Greenville Street
Anderson, Anderson County, South Carolina
UST Permit #12458

Cardno ATC
Shaping the Future

400 Northeast Drive, Unit Q Phone (803) 735-0003
Columbia, South Carolina Fax (803) 735-0443

ATC PROJECT No: 14.25384.0585

SOURCE: USGS Topographic Map Anderson, SC Quadrangle | 1"= 885'



Cardno ATC

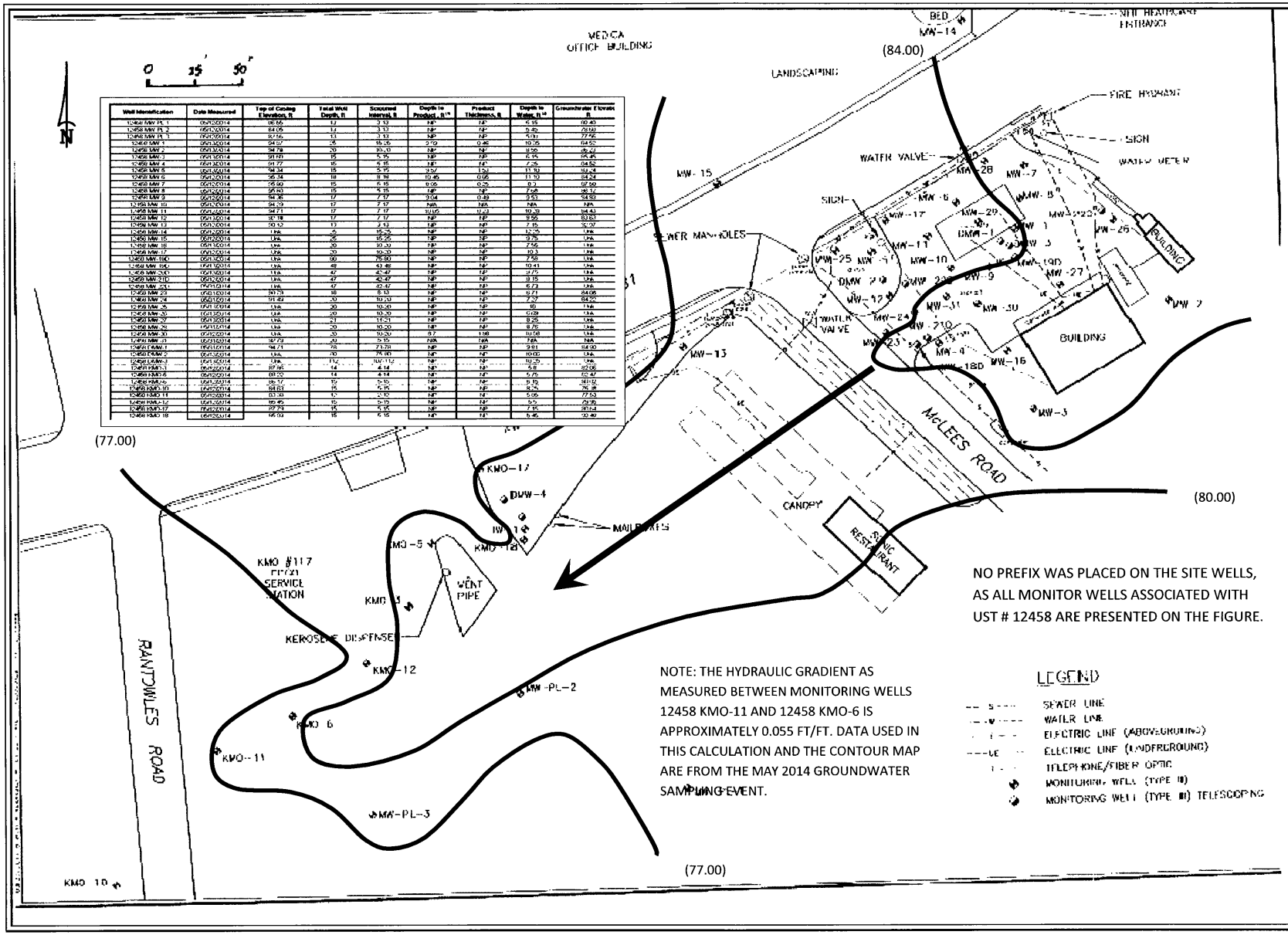
400 NORTHEAST DRIVE
COLUMBIA, SOUTH CAROLINA (803) 735-0003

TITLE FIGURE 2 UST PERMIT # 12458
SITE MAP
FORMER PANTRY #585
1502 EAST GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

SCALE	DATE	PROJECT NUMBER
1" = 50'	6-26-14	014.25384.0585

PREP BY	REV BY
BB	JK

NOTE:



Well Identification	Date Measured	Top of Casing Elevation, ft	Total Well Depth, ft	Screened Interval, ft	Depth to Product, ft[1,2]	Product Thickness, ft	Depth to Water, ft[1,2]	Groundwater Elevation ft
12458 MW PL 1	05/12/2014	96.55	13	3.13	NP	NP	6.15	90.40
12458 MW PL 2	05/12/2014	84.05	13	3.13	NP	NP	5.49	78.56
12458 MW PL 3	05/12/2014	83.56	13	3.13	NP	NP	5.81	77.75
12458 MW 1	05/12/2014	94.57	25	15.25	2.12	0.46	10.25	84.52
12458 MW 2	05/12/2014	94.78	20	10.20	NP	NP	8.56	86.22
12458 MW 3	05/12/2014	91.80	15	5.15	NP	NP	6.15	85.45
12458 MW 4	05/12/2014	91.77	15	5.15	NP	NP	7.25	84.52
12458 MW 5	05/12/2014	94.34	15	5.15	9.57	1.52	11.80	84.4
12458 MW 6	05/12/2014	96.34	18	8.18	10.48	0.05	11.70	84.24
12458 MW 7	05/12/2014	95.60	15	5.15	9.06	0.25	9.3	87.50
12458 MW 8	05/12/2014	95.93	15	5.15	NP	NP	7.58	88.34
12458 MW 9	05/12/2014	94.38	17	7.17	9.04	0.49	9.53	84.80
12458 MW 10	05/12/2014	94.29	17	7.17	NA	NA	NA	NA
12458 MW 11	05/12/2014	94.71	17	7.17	10.05	1.33	10.38	84.43
12458 MW 12	05/12/2014	87.18	17	7.17	NP	NP	8.55	83.63
12458 MW 13	05/12/2014	90.12	13	3.13	NP	NP	7.15	82.97
12458 MW 14	05/12/2014	Unk.	5	15.25	NP	NP	12.25	Unk.
12458 MW 15	05/12/2014	Unk.	25	15.25	NP	NP	9.75	Unk.
12458 MW 16	05/12/2014	Unk.	20	10.20	NP	NP	7.56	Unk.
12458 MW 17	05/12/2014	Unk.	20	10.20	NP	NP	10.3	Unk.
12458 MW 18D	05/12/2014	Unk.	80	75.80	NP	NP	7.58	Unk.
12458 MW 19D	05/12/2014	Unk.	48	43.48	NP	NP	10.41	Unk.
12458 MW 20D	05/12/2014	Unk.	47	42.47	NP	NP	9.75	Unk.
12458 MW 21D	05/12/2014	Unk.	47	42.47	NP	NP	8.15	Unk.
12458 MW 22D	05/12/2014	Unk.	47	42.47	NP	NP	6.73	Unk.
12458 MW 23	05/12/2014	91.78	18	8.13	NP	NP	9.71	84.06
12458 MW 24	05/12/2014	91.49	30	10.20	NP	NP	7.27	84.22
12458 MW 25	05/12/2014	Unk.	30	10.20	NP	NP	10	Unk.
12458 MW 26	05/12/2014	Unk.	20	10.20	NP	NP	6.28	Unk.
12458 MW 27	05/12/2014	Unk.	21	11.21	NP	NP	8.25	Unk.
12458 MW 28	05/12/2014	Unk.	20	10.20	NP	NP	8.75	Unk.
12458 MW 30	05/12/2014	Unk.	20	10.20	8.7	1.98	10.58	Unk.
12458 DMW 1	05/12/2014	90.73	20	5.15	NA	NA	NA	NA
12458 DMW 2	05/12/2014	94.71	76	71.71	NP	NP	9.81	84.90
12458 DMW 3	05/12/2014	Unk.	70	75.80	NP	NP	10.00	Unk.
12458 DMW 4	05/12/2014	Unk.	112	107.112	NP	NP	10.25	Unk.
12458 KMO 1	05/12/2014	87.95	14	4.14	NP	NP	5.8	82.06
12458 KMO 6	05/12/2014	88.22	14	4.14	NP	NP	5.75	82.47
12458 KMO 9	05/12/2014	85.12	10	5.15	NP	NP	9.19	76.12
12458 KMO 10	05/12/2014	84.83	15	5.15	NP	NP	9.25	75.58
12458 KMO 11	05/12/2014	83.39	10	5.15	NP	NP	5.86	77.53
12458 KMO 12	05/12/2014	85.45	15	5.15	NP	NP	5.5	79.95
12458 KMO 17	05/12/2014	87.73	15	5.15	NP	NP	7.15	80.4
12458 KMO 18	05/12/2014	85.93	15	5.15	NP	NP	5.45	80.48

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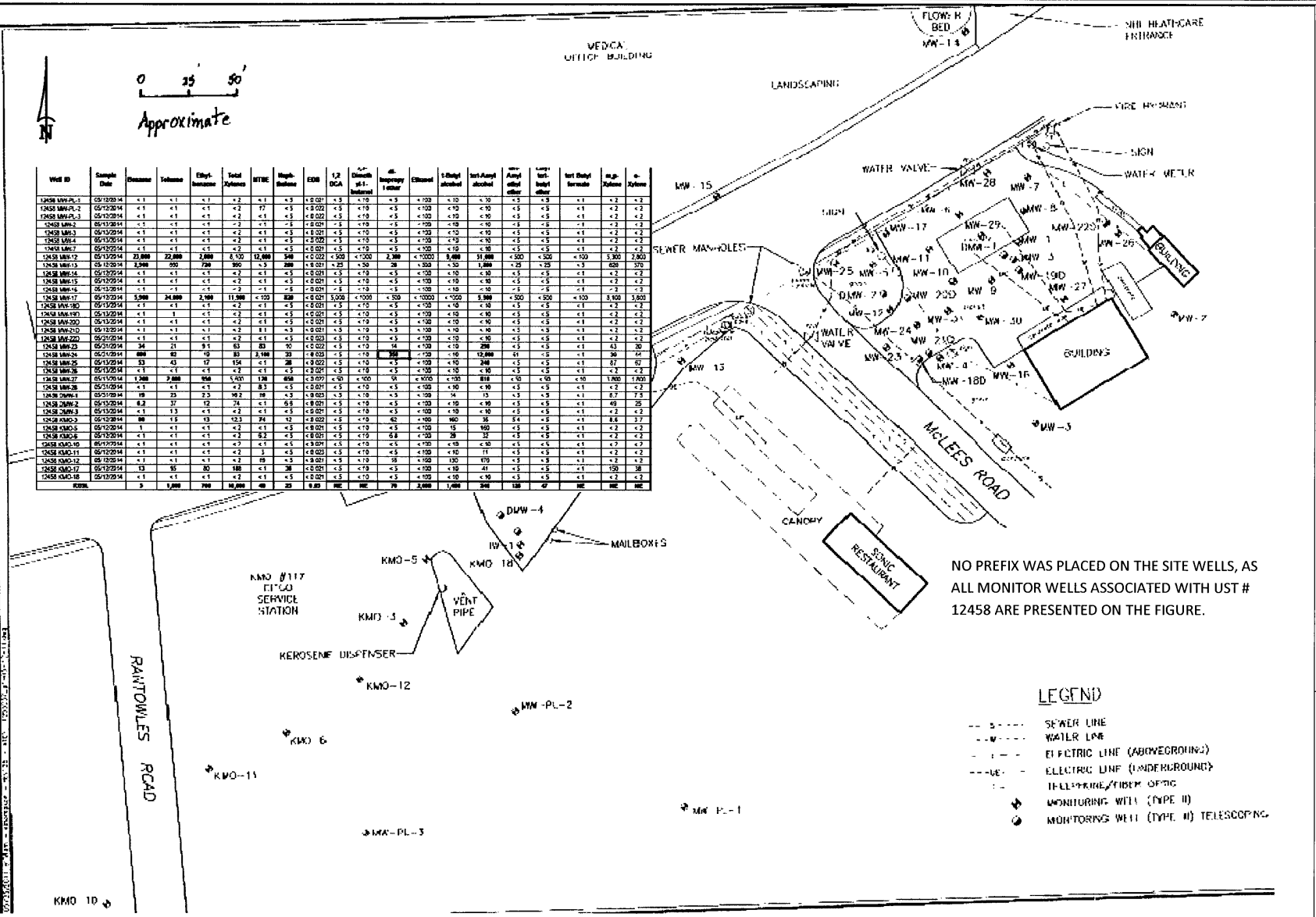
400 NORTHEAST DRIVE
COLUMBIA, SOUTH CAROLINA (803) 735-0003

TITLE FIGURE 3 UST PERMIT # 12458
GROUNDWATER CONTOUR ELEVATION MAP
FORMER PANTRY #585
1502 EAST GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

SCALE	DATE	PROJECT NUMBER
1" = 50'	6-26-14	014.25384.0585

PREP BY	REV BY
BB	JK

NOTE:



Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene	EDB	1,2 DCA	Diisopropyl ether (DIPE)	di-Isopropyl ether	Ethanol	t-Butyl alcohol	tert-Amyl alcohol	tert-Amyl ethyl ether	tert-butyl ethyl ether	tert Butyl formate	m,p-Xylene	o-Xylene
12458 MW-PL-1	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0.021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	< 2	< 2
12458 MW-PL-2	05/12/2014	< 1	< 1	< 1	< 2	17	< 5	< 0.022	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	< 2	< 2
12458 MW-PL-3	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0.022	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	< 2	< 2
12458 MW-2	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0.021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	< 2	< 2
12458 MW-3	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0.021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	< 2	< 2
12458 MW-4	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0.022	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	< 2	< 2
12458 MW-7	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0.021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	< 2	< 2
12458 MW-12	05/13/2014	23,000	22,000	2,000	8,100	12,000	540	< 0.022	< 500	< 1000	2,300	< 10000	5,000	51,000	< 500	< 500	< 100	5,300	2,800
12458 MW-13	05/12/2014	2,900	600	720	900	< 5	200	< 0.021	< 25	< 50	28	< 500	< 50	1,800	< 25	< 25	< 5	620	370
12458 MW-14	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0.021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	< 2	< 2
12458 MW-15	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0.021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	< 2	< 2
12458 MW-16	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0.021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	< 2	< 2
12458 MW-17	05/12/2014	5,900	24,000	2,100	11,900	< 100	820	< 0.021	5,000	< 1000	< 500	< 10000	< 1000	5,300	< 500	< 500	< 100	3,100	3,800
12458 MW-18D	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0.021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	< 2	< 2
12458 MW-19D	05/13/2014	< 1	1	< 1	< 2	< 1	< 5	< 0.021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	< 2	< 2
12458 MW-20D	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0.021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	< 2	< 2
12458 MW-21D	05/12/2014	< 1	< 1	< 1	< 2	11	< 5	< 0.021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	< 2	< 2
12458 MW-22D	05/31/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0.023	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	< 2	< 2
12458 MW-23	05/31/2014	34	21	9.1	63	83	10	< 0.022	< 5	< 10	14	< 100	< 10	250	< 5	< 5	< 1	43	20
12458 MW-24	05/31/2014	880	92	10	83	3,100	33	< 0.023	< 5	< 10	200	< 100	< 10	12,000	61	< 5	< 1	30	14
12458 MW-25	05/13/2014	33	43	17	154	< 1	28	< 0.022	< 5	< 10	< 5	< 100	< 10	240	< 5	< 5	< 1	67	67
12458 MW-26	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0.021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	< 2	< 2
12458 MW-27	05/13/2014	1,200	2,800	150	1,400	130	450	< 0.021	< 50	< 100	51	< 1000	< 100	810	< 50	< 50	< 10	1,900	1,000
12458 MW-28	05/31/2014	< 1	< 1	< 1	< 2	8.3	< 5	< 0.021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	< 2	< 2
12458 DMW-1	05/31/2014	19	23	2.3	10.2	19	< 5	< 0.023	< 5	< 10	< 5	< 100	14	13	< 5	< 5	< 1	8.7	7.5
12458 DMW-2	05/13/2014	8.2	37	12	74	< 1	6.6	< 0.021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	49	25
12458 DMW-3	05/13/2014	< 1	1.3	< 1	< 2	< 1	< 5	< 0.021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	< 2	< 2
12458 KMO-3	05/12/2014	80	1.5	13	12.3	74	12	< 0.022	< 5	< 10	62	< 100	160	36	5.4	< 5	< 1	8.6	3.7
12458 KMO-5	05/12/2014	1	< 1	< 1	< 2	< 1	< 5	< 0.021	< 5	< 10	< 5	< 100	15	160	< 5	< 5	< 1	< 2	< 2
12458 KMO-8	05/12/2014	< 1	< 1	< 1	< 2	6.2	< 5	< 0.021	< 5	< 10	6.8	< 100	29	32	< 5	< 5	< 1	< 2	< 2
12458 KMO-10	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0.021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	< 2	< 2
12458 KMO-11	05/12/2014	< 1	< 1	< 1	< 2	3	< 5	< 0.023	< 5	< 10	< 5	< 100	< 10	11	< 5	< 5	< 1	< 2	< 2
12458 KMO-12	05/12/2014	< 1	< 1	< 1	< 2	19	< 5	< 0.021	< 5	< 10	18	< 100	130	170	< 5	< 5	< 1	< 2	< 2
12458 KMO-17	05/12/2014	13	55	20	180	< 1	38	< 0.021	< 5	< 10	< 5	< 100	< 10	41	< 5	< 5	< 1	150	38
12458 KMO-18	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0.021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	< 2	< 2
TOTAL		3	1,000	700	10,000	40	23	0.03	NE	NE	70	2,000	1,000	340	130	47	NE	NE	NE

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400 NORTHEAST DRIVE
COLUMBIA, SOUTH CAROLINA (803) 735-0003

TITLE FIGURE 4 UST PERMIT # 12458
GROUNDWATER CONCENTRATION MAP
FORMER PANTRY #585
1502 EAST GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

SCALE	DATE	PROJECT NUMBER
1" = 50'	6-26-14	014.25384.0585

PREP BY	REV BY
BB	JK

NOTE:

APPENDIX A

FIELD DATA INFORMATION SHEETS

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Page

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5-12-2014
Field Personnel Chris Hamilton, Braden Belding
General Weather Conditions Sunny Hot Charlie Strang
Ambient Air Temperature 88 °F William Fogle

Facility Name Pantry 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: MW-PL-1

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 13.0 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 6.15' ft.

Length of Water Column (LWC=TWD-DGW) 6.85 ft.

1 Csg. Volume (LWC*C)= 6.85 X 0.163 = 1.12 gals.
3 Csg. Volumes = 3 X 1.12 = 3.36 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 3.5 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	16:20	16:24	16:28	16:31				16:34
pH (s.u.)	4.20	3.83	3.39	3.22				
Specific Cond. (umhos/cm) CS 106	[illegible]	181	189	186				
Water Temp (°C)	21.11	20.97	20.89	21.69				
Turbidity (*)	60.3	1000+	1000+	1000+				
D.O. Reading	1.02	1.09	1.14	1.08				

*subjective (1) Clear (2) Slight (3) Moderate (4) High

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Page

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5-12-2014
Field Personnel Chris Hamilton, Braden Belding
General Weather Conditions Sunny Hot Charlie Strang
Ambient Air Temperature 88 °F William Fogle

Facility Name Pantry 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: MW-PL-2

Well Diameter (D) 2 inch or 13 feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 13 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 5.45' ft.

Length of Water Column (LWC=TWD-DGW) 7.55 ft.

1 Csg. Volume (LWC*C)= 7.55 X 0.163 = 1.23 gals.
3 Csg. Volumes = 3 X 1.23 = 3.69 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 3.75 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	16:03	16:06	16:09	16:13				16:16
pH (s.u.)	3.78	3.85	4.02	3.35				
Specific Cond. (umhos/cm)	189	188	200	202				
Water Temp (°C)	21.23	21.14	20.57	21.32				
Turbidity (*)	186	1000+	1000+	1000+				
D.O. Reading	0.44	0.33	0.53	0.78				

*subjective (1) Clear (2) Slight (3) Moderate (4) High

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Page

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5-12-2014
Field Personnel Chris Hamilton, Braden Belding
General Weather Conditions Sunny Hot Charlie Strange
Ambient Air Temperature 88 °F William Fogle

Facility Name Pantry 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: MW-PL-3

Well Diameter (D) 2 inch or 13 feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 13 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 5.00 ft.

Length of Water Column (LWC=TWD-DGW) 8.0 ft.

1 Csg. Volume (LWC*C)= 8.0 X 0.163 = 1.30 gals.
3 Csg. Volumes = 3 X 1.30 = 3.90 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 4.0 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	15:40	15:42	15:46	15:49				15:53
pH (s.u.)	3.50	3.15	2.99	2.79				
Specific Cond. (umhos/cm)	142	139	136	138				
Water Temp (°C)	22.43	21.65	21.17	22.01				
Turbidity (*)	409	915	1000+	1000+				
D.O. Reading	1.34	0.67	1.05	0.90				

*subjective (1) Clear (2) Slight (3) Moderate (4) High

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Page

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5-12-2014
Field Personnel Chris Hamilton, Braden Belling
General Weather Conditions Sunny Hot Charlie Strange
Ambient Air Temperature 88 °F William Fogle

Facility Name Pantry 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: mw-1

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 25 ft.
Depth to Free Product (DFP) 9.89 ft.
Depth to GW (DGW) 10.35 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ X 0.163 = _____ gals.
3 Csg. Volumes = 3 X _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temp (°C)								
Turbidity (*)								
D.O. Reading								

*subjective (1) Clear (2) Slight (3) Moderate (4) High

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks: PRODUCT

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Field Data Information Sheet for Ground Water Sampling

CS 13

Date (mm/dd/yy) 5-[redacted]-2014
Field Personnel Chris Hamilton, Braden Belding
General Weather Conditions Sunny Hot Charlie Strange
Ambient Air Temperature 88 °F William Fogle

Facility Name Parkway 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: MW-2

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 20 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 8.55 ft.

Length of Water Column (LWC=TWD-DGW) 11.45 ft.

1 Csg. Volume (LWC*C)= 11.45 X 0.163 = 1.87 gals.
3 Csg. Volumes = 3 X 1.87 = 5.60 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 5.75 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	9:54	9:58	10:02	10:05				10:09
pH (s.u.)	3.84	3.68	4.28	3.68				
Specific Cond. (umhos/cm)	160	236	256	281				
Water Temp (°C)	17.13	17.51	17.29	18.18				
Turbidity (*)	281	857	710	590				
D.O. Reading	0.36	0.76	0.76	1.28				

*subjective (1) Clear (2) Slight (3) Moderate (4) High

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Field Data Information Sheet for Ground Water Sampling

CS 13

Date (mm/dd/yy) 5-[illegible]-2014
Field Personnel Chris Hamilton, Braden Belding, Charlie Strange, William Fogle
General Weather Conditions Sunny Hot
Ambient Air Temperature 88 °F

Facility Name Parkway 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: MW-3

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 15.0 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 6.15 ft.

Length of Water Column (LWC=TWD-DGW) 8.85 ft.

1 Csg. Volume (LWC*C)= 8.85 X 0.163 = 1.44 gals.
3 Csg. Volumes = 3 X 1.44 = 4.32 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 4.5 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	10:20	10:24	10:27	10:30				10:34
pH (s.u.)	4.57	3.83	4.04	4.27				
Specific Cond. (umhos/cm)	212	207	218	221				
Water Temp (°C)	18.67	18.22	18.13	19.38				
Turbidity (*)	430	1000+	1000+	420				
D.O. Reading	0.51	0.93	0.63	0.50				

*subjective (1) Clear (2) Slight (3) Moderate (4) High

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5-13-2014
Field Personnel Chris Hamilton, Braden Belding
General Weather Conditions Sunny Hot Charlie Strange
Ambient Air Temperature 88 °F William Fogle

Facility Name Pantry 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: MW-4

Well Diameter (D) 2 inch or 8 feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 15 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 7.25 ft.

Length of Water Column (LWC=TWD-DGW) 7.75 ft.

1 Csg. Volume (LWC*C)= 7.75 X 0.163 = 1.26 gals.
3 Csg. Volumes = 3 X 1.26 = 3.79 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 4.0 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	11:26	11:30	11:33	11:36				11:39
pH (s.u.)	3.98	3.80	3.80	3.31				
Specific Cond. (umhos/cm)	810	770	760	801				
Water Temp (°C)	19.27	18.64	18.68	18.67				
Turbidity (*)	430	1000+	1000+	990				
D.O. Reading	2.06	1.02	0.98	0.55				

*subjective (1) Clear (2) Slight (3) Moderate (4) High

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5-12-2014
Field Personnel Chris Hamilton, Braden Belding, Charlie Strange, William Fogle
General Weather Conditions Sunny Hot
Ambient Air Temperature 88 °F

Facility Name Parkway 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: mw-5

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 15 ft.
Depth to Free Product (DFP) 9.57 ft.
Depth to GW (DGW) 11.10 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ X 0.163 = _____ gals.
3 Csg. Volumes = 3 X _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temp (°C)								
Turbidity (*)								
D.O. Reading								

*subjective (1) Clear (2) Slight (3) Moderate (4) High

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks: PRODUCT

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5-12-2014
Field Personnel Chris Hamilton, Braden Belling
General Weather Conditions Sunny Hot Charlie Strange
Ambient Air Temperature 88 °F William Fogle

Facility Name Pantry 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: mw 6

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 18 ft.
Depth to Free Product (DFP) 10.45 ft.
Depth to GW (DGW) 11.10 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ X 0.163 = _____ gals.
3 Csg. Volumes = 3 X _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temp (°C)								
Turbidity (*)								
D.O. Reading								

*subjective (1) Clear (2) Slight (3) Moderate (4) High

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks: PRODUCT

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5-12-2014
Field Personnel Chris Hamilton, Braden Belling
General Weather Conditions Sunny Hot Charlie Strange
Ambient Air Temperature 88 °F William Fogle

Facility Name Pantry 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: mw 7

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 15 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 7.68 ft.

Length of Water Column (LWC=TWD-DGW) 7.32 ft.

1 Csg. Volume (LWC*C)= 7.32 X 0.163 = 1.19 gals.
3 Csg. Volumes = 3 X 1.19 = 3.57 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 3.75 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								14:52
pH (s.u.)	6.02	6.21	6.12	5.94				5.94
Specific Cond. (umhos/cm)	142	167	153	142				142
Water Temp (°C)	22.78	21.38	20.29	21.31				21.31
Turbidity (*)	83.6	406	404	341				341
D.O. Reading	3.86	4.02	3.34	3.09				3.09

*subjective (1) Clear (2) Slight (3) Moderate (4) High

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5-12-2014
Field Personnel Chris Hamilton, Brandon Belding
General Weather Conditions Sunny Hot Charlie Strange
Ambient Air Temperature 88 °F William Fogle

Facility Name Parkway 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: mw-8

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 17 ft.
Depth to Free Product (DFP) 8.05 ft.
Depth to GW (DGW) 8.30 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ X 0.163 = _____ gals.
3 Csg. Volumes = 3 X _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temp (°C)								
Turbidity (*)								
D.O. Reading								

*subjective (1) Clear (2) Slight (3) Moderate (4) High

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks: PRODUCT

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5-12-2014
Field Personnel Chris Hamilton, Braden Belding
General Weather Conditions Sunny Hot Charlie Strong
Ambient Air Temperature 88 °F William Fogle

Facility Name Parkway 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: MW-9

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 17 ft.
Depth to Free Product (DFP) 9.04 ft.
Depth to GW (DGW) 9.53 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ X 0.163 = _____ gals.
3 Csg. Volumes = 3 X _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temp (°C)								
Turbidity (*)								
D.O. Reading								

*subjective (1) Clear (2) Slight (3) Moderate (4) High

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks: PRODUCT

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5-12-2014
Field Personnel Chris Hamilton, Brodee Belding
General Weather Conditions Sunny Hot Charlie Strange
Ambient Air Temperature 88 °F William Fogle

Facility Name Parkway 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: mw-~~X~~11

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 17 ft.
Depth to Free Product (DFP) 10.05 ft.
Depth to GW (DGW) 10.28 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ X 0.163 = _____ gals.
3 Csg. Volumes = 3 X _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temp (°C)								
Turbidity (*)								
D.O. Reading								

*subjective (1) Clear (2) Slight (3) Moderate (4) High

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks: PRODUCT

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5-13-2014
Field Personnel Chris Hamilton, Braden Belding, Charlie Strange, William Fogle
General Weather Conditions Sunny Hot
Ambient Air Temperature 88 °F

Facility Name Parkway 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: MW-12

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 17.0 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 8.55 ft.

Length of Water Column (LWC=TWD-DGW) 8.45 ft.

1 Csg. Volume (LWC*C)= 8.45 X 0.163 = 1.38 gals.
3 Csg. Volumes = 3 X 1.38 = 4.14 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 4.25 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	11:43	11:46	11:49	11:52				11:53
pH (s.u.)	3.25	3.36	3.83					
Specific Cond. (umhos/cm)	231	211	249					
Water Temp (°C)	19.09	18.60	21.01					
Turbidity (*)	610	890	860					
D.O. Reading	0.51	0.49	0.97					

*subjective (1) Clear (2) Slight (3) Moderate (4) High

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks: Duplicate Taken Moderate Petroleum Odor

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5-12-2014
Field Personnel Chris Hamilton, Braden Belding
General Weather Conditions Sunny Hot Charlie Strange
Ambient Air Temperature 88 °F William Fogle

Facility Name Pantry 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: MW-13

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 13 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 7.15 ft.

Length of Water Column (LWC=TWD-DGW) 5.85 ft.

1 Csg. Volume (LWC*C)= 5.85 X 0.163 = 0.95 gals.
3 Csg. Volumes = 3 X 0.95 = 2.86 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 3.0 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	17:13	17:15	17:17	17:19				17:23
pH (s.u.)	4.52	4.53	4.51	4.47				
Specific Cond. (umhos/cm)	218	244	250	336				
Water Temp (°C)	19.16	18.71	18.86	20.31				
Turbidity (*)	413	609	900	1000+				
D.O. Reading	0.74	1.47	0.70	0.56				

*subjective (1) Clear (2) Slight (3) Moderate (4) High

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks: Moderate Petroleum Odor

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5-12-2014
Field Personnel Chris Hamilton, Braden Belfiore
General Weather Conditions Sunny Hot Charlie Strange
Ambient Air Temperature 88 °F William Fogle

Facility Name Panxay 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: MW 14

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 25 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 12.25 ft.

Length of Water Column (LWC=TWD-DGW) 12.75 ft.

1 Csg. Volume (LWC*C)= 12.75 X 0.163 = 2.08 gals.
3 Csg. Volumes = 3 X 2.08 = 6.24 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 6.25 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								13:53
pH (s.u.)	5.25	5.38	5.29	5.20				5.21
Specific Cond. (umhos/cm)	216	157	149	147				146
Water Temp (°C)	24.83	22.34	21.15	22.90				23.97
Turbidity (*)	10.2	1000+	1000+	883				904
D.O. Reading	4.51	9.00	5.76	5.23				4.37

*subjective (1) Clear (2) Slight (3) Moderate (4) High

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5-12-2014
Field Personnel Chris Hamilton, Braden Belling
General Weather Conditions Sunny Hot Charlie Strang
Ambient Air Temperature 88 °F William Fogle

Facility Name Pantry 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: mw 15

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 25 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 9.75 ft.

Length of Water Column (LWC=TWD-DGW) 15.25 ft.

1 Csg. Volume (LWC*C)= 15.25 X 0.163 = 2.49 gals.
3 Csg. Volumes = 3 X 2.49 = 7.47 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 7.50 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								14:21
pH (s.u.)	5.58	5.58	5.49	5:50				5.46
Specific Cond. (umhos/cm)	72	71	68	68				68
Water Temp (°C)	22.34	21.06	19.52	19.45				19.71
Turbidity (*)	233	311	1000+	1000+				1000+
D.O. Reading	4.93	5.38	5.39	4.68				4.35

*subjective (1) Clear (2) Slight (3) Moderate (4) High

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5-13-2014
Field Personnel Chris Hamilton, Braden Belding
General Weather Conditions Sunny Hot Charlie Strang
Ambient Air Temperature 88 °F William Fogle

Facility Name Pantry 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: MW-16

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 20 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 7.55 ft.

Length of Water Column (LWC=TWD-DGW) 12.45 ft.

1 Csg. Volume (LWC*C)= 12.45 X 0.163 = 2.03 gals.
3 Csg. Volumes = 3 X 2.03 = 6.09 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 6.25 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	10:40	10:43	10:46	10:49				10:53
pH (s.u.)	3.38	3.91	3.65	3.71				
Specific Cond. (umhos/cm)	337	288	239	199				
Water Temp (°C)	18.60	18.02	18.13	20.01				
Turbidity (*)	16	830	891	910				
D.O. Reading	1.20	0.39	0.71	0.67				

*subjective (1) Clear (2) Slight (3) Moderate (4) High

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5-12-2014
Field Personnel Chris Hamilton, Brodee Belding
General Weather Conditions Sunny Hot Charlie Strange
Ambient Air Temperature 88 °F William Fogle

Facility Name Parkway 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: mw 17

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 20 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 10.30 ft.

Length of Water Column (LWC=TWD-DGW) 9.70 ft.

1 Csg. Volume (LWC*C)= 9.70 X 0.163 = 1.58 gals.
3 Csg. Volumes = 3 X 1.58 = 4.74 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 4.75 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								15:12
pH (s.u.)	6.10	6.05	6.05	6.19				6.19
Specific Cond. (umhos/cm)	197	197	202	191				191
Water Temp (°C)	21.79	20.83	20.36	24.72				24.72
Turbidity (*)	212	222	485	292				292
D.O. Reading	2.94	2.64	2.77	7.25				7.25

*subjective (1) Clear (2) Slight (3) Moderate (4) High

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

DUP-1 15:17

Remarks: MODERATE ODOR

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5-13-2014
Field Personnel Chris Hamilton, Braden Belding
General Weather Conditions Sunny Hot Charlie Strange
Ambient Air Temperature 88 °F William Fogle

Facility Name Parkway 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: mw 18D

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 80 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 7.58 ft.

Length of Water Column (LWC=TWD-DGW) 72.42 ft.

1 Csg. Volume (LWC*C)= 72.42 X 0.163 = 11.80 gals.
3 Csg. Volumes = 3 X 11.80 = 35.40 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 35.5 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								11:29
pH (s.u.)	8.29	9.39	9.04	8.92				8.92
Specific Cond. (umhos/cm)	88	101	114	115				115
Water Temp (°C)	25.67	22.86	23.32	23.98				23.98
Turbidity (*)	41.2	5.7	7.2	11.3				11.4
D.O. Reading	4.45	3.91	3.26	4.19				4.12

*subjective (1) Clear (2) Slight (3) Moderate (4) High

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5-13-2014
Field Personnel Chris Hamilton, Braden Belding
General Weather Conditions Sunny Hot Charlie Strang
Ambient Air Temperature 88 °F William Fogle

Facility Name Pantry 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: mw 19 D

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 48 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 10.41 ft.

Length of Water Column (LWC=TWD-DGW) 37.59 ft.

1 Csg. Volume (LWC*C)= 37.59 X 0.163 = 6.13 gals.
3 Csg. Volumes = 3 X 6.13 = 18.39 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 18.5 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								9:48
pH (s.u.)	6.57	6.63	6.76	6.81				6.81
Specific Cond. (umhos/cm)	75	112	124	127				127
Water Temp (°C)	23.54	22.30	21.97	22.78				22.81
Turbidity (*)	44.1	16.5	11.0	26.9				27.1
D.O. Reading	3.14	2.61	3.27	4.75				4.72

*subjective (1) Clear (2) Slight (3) Moderate (4) High

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks: INCORRECT TAG MARKING WELL

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5-13-2014
Field Personnel Chris Hamilton, Braden Belding
General Weather Conditions Sunny Hot Charlie Strong
Ambient Air Temperature 88 °F William Fogle

Facility Name Parkway 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: mw 20 D

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 47 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 9.75 ft.

Length of Water Column (LWC=TWD-DGW) 37.25 ft.

1 Csg. Volume (LWC*C)= 37.25 X 0.163 = 6.07 gals.
3 Csg. Volumes = 3 X 6.07 = 18.21 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 18.25 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								13:20
pH (s.u.)	7.67	7.00	6.79	6.54				6.54
Specific Cond. (umhos/cm)	102	100	101	102				102
Water Temp (°C)	28.21	24.83	23.78	25.85				25.85
Turbidity (*)	12.2	75.9	65.3	39.2				39.5
D.O. Reading	4.08	4.21	4.81	3.72				3.73

*subjective (1) Clear (2) Slight (3) Moderate (4) High

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5-13-2014
Field Personnel Chris Hamilton, Brodee Belding
General Weather Conditions Sunny Hot Charlie Strang
Ambient Air Temperature 88 °F William Fogle

Facility Name Parkway 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: MW 21D

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 47 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 8.15 ft.

Length of Water Column (LWC=TWD-DGW) 38.85 ft.

1 Csg. Volume (LWC*C)= 38.85 X 0.163 = 6.33 gals.
3 Csg. Volumes = 3 X 6.33 = 18.99 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 19 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								10:56
pH (s.u.)	6.73	6.58	6.35	6.44				6.44
Specific Cond. (umhos/cm)	133	128	127	127				127
Water Temp (°C)	25.42	23.29	22.89	25.51				25.55
Turbidity (*)	29.3	16.4	8.5	81.8				81.8
D.O. Reading	4.09	3.59	3.09	3.56				3.56

*subjective (1) Clear (2) Slight (3) Moderate (4) High

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy): 5/31/14
Field Personnel: B. BEIDING
General Weather Conditions: HOT, SUNNY
Ambient Air Temperature: ____ °F

Facility Name: PANTRY 585 Site ID #: 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	X	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: MW 22D

Well Diameter (D) 2 inch or ____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD): 47 ft.
Depth to Free Product (DFP): ____ ft.
Depth to GW (DGW): 6.73 ft.

Length of Water Column (LWC=TWD-DGW): 40.27 ft.

1 Csg. Volume (LWC*C)= 40.27 X 0.163 = 6.57 gals.
3 Csg. Volumes = 3 X 6.57 = 19.71 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling: 10 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								16:45
pH (s.u.)	11.38	11.31						
Specific Cond. (umhos/cm)	534	525						
Water Temp (°C)	27.34	27.43						
Turbidity (*)	138	161						
D.O. Reading	2.03	2.08						

circle if well (Bailed Dry) Equilibrated (10%) Duplicate taken

Remarks: BAILED DRY AFTER 10 GALS.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5/31/14
Field Personnel B. BELDING
General Weather Conditions
Ambient Air Temperature ° F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: mw 23

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 18 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 6.71 ft.

Length of Water Column (LWC=TWD-DGW) 11.29 ft.

1 Csg. Volume (LWC*C)= 11.29 X 0.163 = 1.84 gals.
3 Csg. Volumes = 3 X 1.84 = 5.52 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 5.75 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								14:27
pH (s.u.)	7.06	7.85	7.87	7.25				7.25
Specific Cond. (umhos/cm)	157	160	180	230				230
Water Temp (°C)	23.51	22.70	22.39	24.47				24.51
Turbidity (*)	60.3	219	237	173				176
D.O. Reading	2.18	3.81	3.40	2.30				2.34

circle if well Bailed Dry Equilibrated (10%) Duplicate taken @ 14:32

Remarks:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5/31/14
Field Personnel B BELDING
General Weather Conditions HOT, SUNNY
Ambient Air Temperature _____ °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: MW 24

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 20 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 7.27 ft.

Length of Water Column (LWC=TWD-DGW) 12.73 ft.

1 Csg. Volume (LWC*C)= 12.73 X 0.163 = 2.07 gals.
3 Csg. Volumes = 3 X 2.07 = 6.21 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 6.25 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								15:50
pH (s.u.)	7.35	7.13	6.91	6.83				6.83
Specific Cond. (umhos/cm)	137	165	171	218				218
Water Temp (°C)	25.59	23.44	24.39	23.16				23.29
Turbidity (*)	159	105	51.8	42.3				41.0
D.O. Reading	2.04	2.56	2.44	3.66				3.30

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5-13-2014
Field Personnel Chris Hamilton, Braden Belding
General Weather Conditions Sunny Hot Charlie Strange
Ambient Air Temperature 88 °F William Fogle

Facility Name Parkway 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: MW-25

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 20.0 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 10.00 ft.

Length of Water Column (LWC=TWD-DGW) 10.00 ft.

1 Csg. Volume (LWC*C)= 10.0 X 0.163 = 1.63 gals.
3 Csg. Volumes = 3 X 1.63 = 4.89 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 5.0 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	12:15	12:19	12:23	12:27				12:31
pH (s.u.)	4.60	4.38	4.24	4.20				
Specific Cond. (umhos/cm)	215	182	176	172				
Water Temp (°C)	19.83	19.85	20.21	21.17				
Turbidity (*)	26	1000+	890	940				
D.O. Reading	2.20	0.81	0.50	0.58				

*subjective (1) Clear (2) Slight (3) Moderate (4) High

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks: Slight Petroleum Odor

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Field Data Information Sheet for Ground Water Sampling

CS 13

Date (mm/dd/yy) 5-[redacted]-2014
Field Personnel Chris Hamilton, Braden Belding
General Weather Conditions Sunny Hot Charlie Strange
Ambient Air Temperature 88 °F William Fogle

Facility Name Parkway 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: ~~[redacted]~~ MW-26

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 20 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 6.69' ft.

Length of Water Column (LWC=TWD-DGW) 13.31 ft.

1 Csg. Volume (LWC*C)= 13.31 X 0.163 = 2.17 gals.
3 Csg. Volumes = 3 X 2.17 = 6.51 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 6.75 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	9:32	9:35	9:39	9:43				9:46
pH (s.u.)	4.83	4.81	4.75	3.91				
Specific Cond. (umhos/cm)	141	150	130	139				
Water Temp (°C)	19.22	19:10	19:00	20:16				
Turbidity (*)	1000+	1000+	1000+	1000+				
D.O. Reading	1.0	0.89	0.93	0.77				

*subjective (1) Clear (2) Slight (3) Moderate (4) High

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5-13-2014
Field Personnel Chris Hamilton, Braden Belding
General Weather Conditions Sunny Hot Charlie Strange
Ambient Air Temperature 88 °F William Fogle

Facility Name Pantry 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: MW-27

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 21 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 8.25 ft.

Length of Water Column (LWC=TWD-DGW) 12.75 ft.

CS 12.75

1 Csg. Volume (LWC*C)= [redacted] X 0.163 = 2.08 [redacted] CS gals.
3 Csg. Volumes = 3 X [redacted] = 6.24 gals. (Std. Purge Volume)
CS 2.08

Total Volume of Water Purged Before Sampling 6.25 gals.

circle if well was Destroyed Dry Inaccessible Not located Not Purged

		Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)									
Time (military)	CS 15:02	[redacted]	15:05	15:09	15:14				15:19
pH (s.u.)	CS 4.47	[redacted]	3.65	3.44	3.50				
Specific Cond. (umhos/cm)		319	329	321	334				
Water Temp (°C)		[redacted]	19.29	19.42	21.47				
Turbidity (*)	CS 18.68	19	1000+	1000+	1000+				
D.O. Reading	CS 0.70	[redacted]	0.46	0.39	0.46				

*subjective (1) Clear (2) Slight (3) Moderate (4) High

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks: Strong Petroleum Odor

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5/31/14
Field Personnel B. BELDING
General Weather Conditions HOT, SUNNY
Ambient Air Temperature _____ °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: mw 28

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 20 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 8.76 ft.

Length of Water Column (LWC=TWD-DGW) 11.24 ft.

1 Csg. Volume (LWC*C)= 11.24 X 0.163 = 1.83 gals.
3 Csg. Volumes = 3 X 1.83 = 5.49 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 5.50 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								12:08
pH (s.u.)	5.50	5.92	6.02	6.01				6.01
Specific Cond. (umhos/cm)	243	212	196	177				177
Water Temp (°C)	21.74	21.21	21.00	21.70				21.80
Turbidity (*)	34.6	270	276	119				112
D.O. Reading	3.85	2.77	2.35	2.29				2.20

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5-12-2014
Field Personnel Chris Hamilton, Braden Belling
General Weather Conditions Sunny Hot Charlie Strang
Ambient Air Temperature 88 °F William Fogle

Facility Name Pantry 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: MW-3b

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 20 ft.
Depth to Free Product (DFP) 8.70 ft.
Depth to GW (DGW) 10.58 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ X 0.163 = _____ gals.
3 Csg. Volumes = 3 X _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temp (°C)								
Turbidity (*)								
D.O. Reading								

*subjective (1) Clear (2) Slight (3) Moderate (4) High

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks: PRODUCT

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5/31/14
Field Personnel B. BELDING
General Weather Conditions HOT, SUNNY
Ambient Air Temperature ____ °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by ____ Received by ____
Date / Time ____ Date / Time ____

Well #: DMW 1

Well Diameter (D) 2 inch or ____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 80 ft.
Depth to Free Product (DFP) ____ ft.
Depth to GW (DGW) 9.81 ft.

Length of Water Column (LWC=TWD-DGW) 70.19 ft.

1 Csg. Volume (LWC*C)= 70.19 X 0.163 = 11.44 gals.
3 Csg. Volumes = 3 X 11.44 = 34.32 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 10 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								16:59
pH (s.u.)	11.78							
Specific Cond. (umhos/cm)	1770							
Water Temp (°C)	26.77							
Turbidity (*)	115							
D.O. Reading	2.26							

circle if well (Bailed Dry) Equilibrated (10%) Duplicate taken

Remarks: BAILED DRY AFTER 10 GALS.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5-13-2014
Field Personnel Chris Hamilton, Braden Belding
General Weather Conditions Sunny Hot Charlie Strong
Ambient Air Temperature 88 °F William Fogle

Facility Name Parkway 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: DMW 2

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 80 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 10.66 ft.

Length of Water Column (LWC=TWD-DGW) 69.34 ft.

1 Csg. Volume (LWC*C)= 69.34 X 0.163 = 11.30 gals.
3 Csg. Volumes = 3 X 11.30 = 33.90 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 6 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								12:17
pH (s.u.)	9.33							
Specific Cond. (umhos/cm)	104							
Water Temp (°C)	26.80							
Turbidity (*)	75.1							
D.O. Reading	2.19							

*subjective (1) Clear (2) Slight (3) Moderate (4) High

circle if well (Bailed Dry) Equilibrated (10%) Duplicate taken

Remarks: BAILED DRY AFTER 6 GALS.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5-13-2014
Field Personnel Chris Hamilton, Braden Belding
General Weather Conditions Sunny Hot Charlie Strang
Ambient Air Temperature 88 °F William Fogle

Facility Name Pantry 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: DMW 3

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 112 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 10.25 ft.

Length of Water Column (LWC=TWD-DGW) 101.75 ft.

1 Csg. Volume (LWC*C)= 101.75 X 0.163 = 16.6 gals.
3 Csg. Volumes = 3 X 16.6 = 49.5 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 5 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								10:22
pH (s.u.)	7.31							
Specific Cond. (umhos/cm)	134							
Water Temp (°C)	23.20							
Turbidity (*)	77.9							
D.O. Reading	5.43							

*subjective (1) Clear (2) Slight (3) Moderate (4) High

circle if well (Bailed Dry) Equilibrated (10%) Duplicate taken

Remarks: BAILED DRY AFTER 5 GALS.

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5-12-2014
Field Personnel Chris Hamilton, Braden Belding
General Weather Conditions Sunny Hot Charlie Strange
Ambient Air Temperature 88 °F William Fogle

Facility Name Parkway 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: KMO-3

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 14.0 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 5.80 ft.

Length of Water Column (LWC=TWD-DGW) 8.2 ft.

1 Csg. Volume (LWC*C)= 8.2 X 0.163 = 1.34 gals.
3 Csg. Volumes = 3 X 1.34 = 4.02 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 4.25 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	17:42	17:44	14:46	14:51				17:59
pH (s.u.)	4.33	4.19	4.12	4.20				
Specific Cond. (umhos/cm)	262	297	276	279				
Water Temp (°C)	20.73	19.96	19.40	19.05				
Turbidity (*)	200	215	619	736				
D.O. Reading	0.78	0.30	0.64	0.51				

*subjective (1) Clear (2) Slight (3) Moderate (4) High

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5-12-2014
Field Personnel Chris Hamilton, Braden Belding
General Weather Conditions Sunny Hot Charlie Strange
Ambient Air Temperature 88 °F William Fogle

Facility Name Pantry 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: KMO-5

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 14.0 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 5.75 ft.

Length of Water Column (LWC=TWD-DGW) 8.25 ft.

1 Csg. Volume (LWC*C)= 8.25 X 0.163 = 1.34 gals.
3 Csg. Volumes = 3 X 1.34 = 4.02 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 4.25 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	17:29	17:31	17:34	17:37				17:40
pH (s.u.)	4.52	4.44	4.50	4.61				
Specific Cond. (umhos/cm)	208	218	221	233				
Water Temp (°C)	18.98	18.65	19.01	19.19				
Turbidity (*)	18	1000+	1000+	1000+				
D.O. Reading	0.50	0.53	0.61	0.28				

*subjective (1) Clear (2) Slight (3) Moderate (4) High

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5-12-2014
Field Personnel Chris Hamilton, Braden Belding
General Weather Conditions Sunny Hot Charlie Strange
Ambient Air Temperature 88 °F William Fogle

Facility Name Pantry 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: KMO-[redacted]6

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 15 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 6.15 ft.

Length of Water Column (LWC=TWD-DGW) 8.85 ft.

1 Csg. Volume (LWC*C)= 8.85 X 0.163 = 1.441 gals.
3 Csg. Volumes = 3 X 1.441 = 4.32 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 4.5 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	14:20	14:28	14:31	14:34				1437
pH (s.u.)	4.20	3.37	4.37	4.42				
Specific Cond. (umhos/cm)	221.0	258.0	241.0	245.0				
Water Temp (°C)	21.11	19.06	19.58	19.68				
Turbidity (*)	60.3	375.1	650.0	850.0				
D.O. Reading	1.02	0.33	0.29	0.28				

*subjective (1) Clear (2) Slight (3) Moderate (4) High

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5-12-2014
Field Personnel Chris Hamilton, Braden Belding
General Weather Conditions Sunny Hot Charlie Strange
Ambient Air Temperature 88 °F William Fogle

Facility Name Pantry 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: KMO-10

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 15 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 8.25 ft.

Length of Water Column (LWC=TWD-DGW) 6.75 ft.

1 Csg. Volume (LWC*C)= 6.75 X 0.163 = 1.10 gals.
3 Csg. Volumes = 3 X 1.10 = 3.30 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 2.25 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	1505	1508	1529					1536
pH (s.u.)	4.25	4.36	4.61					
Specific Cond. (umhos/cm)	990.0	102	101					
Water Temp (°C)	19.39	18.57	19.12					
Turbidity (*)	410	1000+	1000+					
D.O. Reading	0.95	0.65	1.39					

*subjective (1) Clear (2) Slight (3) Moderate (4) High

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks: Bailed Dry after 2.25 Gallons

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5-12-2014
Field Personnel Chris Hamilton, Braden Belding, Charlie Strong, William Fogle
General Weather Conditions Sunny Hot
Ambient Air Temperature 88 °F

Facility Name Pantry 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: KMO-011

Well Diameter (D) 2 inch or ~~[illegible]~~ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) ~~[illegible]~~ 12 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) ~~5.85~~ 5.85 ft.

Length of Water Column (LWC=TWD-DGW) 6.15 ft.

1 Csg. Volume (LWC*C)= 6.15 X 0.163 = 1.0 gals.
3 Csg. Volumes = 3 X 1.0 = 3.0 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling CS 3.0 ~~[illegible]~~ gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	14:45	14:47	14:49	14:51				14:53
pH (s.u.)	4.41	4.34	4.17	4.21				
Specific Cond. (umhos/cm)	100.0	786	770	698				
Water Temp (°C)	18.66	16.97	18.96	18.30				
Turbidity (*)	813	1000+	1000+	1000+				
D.O. Reading	0.18	0.49	0.71	0.69				

*subjective (1) Clear (2) Slight (3) Moderate (4) High

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks: CS ~~Bailed Dry after 2 Gallons~~

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5-12-2014
Field Personnel Chris Hamilton, Braden Belding
General Weather Conditions Sunny Hot Charlie Strange
Ambient Air Temperature 88 °F William Fogle

Facility Name Parkway 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: K140-12

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 15 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 5.50 ft.

Length of Water Column (LWC=TWD-DGW) 9.5 ft.

1 Csg. Volume (LWC*C)= 9.5 X 0.163 = 1.55 gals.
3 Csg. Volumes = 3 X 1.55 = 4.65 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 4.75 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	15:15	15:17	15:19	15:21				15:24
pH (s.u.)	4.24	3.98	4.68	4.06				
Specific Cond. (umhos/cm)	350	381	364	365				
Water Temp (°C)	20.95	20.43	19.37	20.23				
Turbidity (*)	556	1000+	1000+	1000+				
D.O. Reading	0.32	0.72	0.15	0.19				

*subjective (1) Clear (2) Slight (3) Moderate (4) High

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5-12-2014
Field Personnel Chris Hamilton, Braden Belling
General Weather Conditions Sunny Hot Charlie Strange
Ambient Air Temperature 88 °F William Fogle

Facility Name Pantry 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: RMO-17

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 15 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 7.15 ft.

Length of Water Column (LWC=TWD-DGW) 7.85 ft.

1 Csg. Volume (LWC*C)= 7.85 X 0.163 = 1.28 gals.
3 Csg. Volumes = 3 X 1.28 = 3.84 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 4.0 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	16:40	16:43	16:46	16:49				16:53
pH (s.u.)	5.28	5.15	4.78	4.90				
Specific Cond. (umhos/cm)	171	197	193	189				
Water Temp (°C)	17.92	17.40	17.46	18.43				
Turbidity (*)	128	1000+	1000+	1000+				
D.O. Reading	0.61	0.42	0.27	0.25				

*subjective (1) Clear (2) Slight (3) Moderate (4) High

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5-12-2014
Field Personnel Chris Hamilton, Braden Belding
General Weather Conditions Sunny Hot Charlie Strange
Ambient Air Temperature 88 °F William Fogle

Facility Name Parkway 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: KMO-18

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 15 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 5.45 ft.

Length of Water Column (LWC=TWD-DGW) 9.55 ft.

1 Csg. Volume (LWC*C)= 9.55 X 0.163 = 1.56 gals.
3 Csg. Volumes = 3 X 1.56 = 4.68 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 5.0 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	16:55	17:00	17:03	17:06				17:10
pH (s.u.)	3.70	3.19	3.23	4.07				
Specific Cond. (umhos/cm)	105	108	104	106				
Water Temp (°C)	19.39	18.64	18.65	18.93				
Turbidity (*)	195	1000+	1000+	1000+				
D.O. Reading	0.40	0.73	1.06	0.48				

*subjective (1) Clear (2) Slight (3) Moderate (4) High

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5-12-2014
Field Personnel Chris Hamilton, Braden Belding
General Weather Conditions Sunny Hot Charlie Strong
Ambient Air Temperature 88 °F William Fogle

Facility Name Parkway 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: FIELD BLANK

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) _____ ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ X 0.163 = _____ gals.
3 Csg. Volumes = 3 X _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								15:30
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temp (°C)								
Turbidity (*)								
D.O. Reading								

*subjective (1) Clear (2) Slight (3) Moderate (4) High

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

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Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 5-13-2014
Field Personnel Chris Hamilton, Braden Belding
General Weather Conditions Sunny Hot Charlie Strong
Ambient Air Temperature 88 °F William Fogle

Facility Name Parkway 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: FIELD 2

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) _____ ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ X 0.163 = _____ gals.
3 Csg. Volumes = 3 X _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								12:45
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temp (°C)								
Turbidity (*)								
D.O. Reading								

*subjective (1) Clear (2) Slight (3) Moderate (4) High

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

APPENDIX B

LABORATORY ANALYTICAL RESULTS

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Case Narrative for:

CARDNO ATC

Certificate of Analysis Number:

L0042946

Report To:		Project Name:	ANDERSON, SC
CARDNO ATC		Site:	PANTRY #585 FORMER 81 FOOD MAR
JESSE KEEFFE		Site Address:	
400 NORTHEAST DR, UNIT Q			
COLUMBIA		PO Number:	
SC		State:	South Carolina
29203-		State Cert. No.:	73004001
ph: (803) 735-0003	fax:	Date Reported:	5/22/2014

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data for those samples spiked by the laboratory and may be applicable to other samples of similar matrix from the site. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process. If insufficient sample is supplied for MS/MSD, a Laboratory Control Sample (LCS) and a Laboratory Control Sample Duplicate (LCSD) are reported with the analytical batch and serve as the batch quality control (QC).

Results are reported on a Wet Weight Basis unless otherwise noted in the sample unit field as -dry.

The collection of samples using encores, terracores or other field collection devices may result in inconsistent initial sample weights for the parent sample and MS/MSD samples.

The MS/MSD recovery and precision data are calculated based on detected spike concentrations that are adjusted for initial sample weights. As a result of the variability between initial sample weights, the calculated RPD may have increased bias

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

Accutest Gulf Coast is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Christina H Larriviere

Christina Larriviere
Project Manager

5/22/2014
Date

Test results meet all requirements of NELAC, unless specified in the narrative.

Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

CARDNO ATC

Certificate of Analysis Number:

L0042946

Report To: CARDNO ATC
JESSE KEEFFE
400 NORTHEAST DR, UNIT Q

COLUMBIA
SC
29203-
ph: (803) 735-0003 fax:

Fax To:

Project Name: ANDERSON, SC
Site: PANTRY #585 FORMER 81 FOOD MAR
Site Address:

PO Number:
State: South Carolina
State Cert. No.: 73004001
Date Reported: 5/22/2014

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
MW-2	L0042946-01	Water	05/13/2014 10:09	5/14/2014 10:00 00 AM		☐
MW-3	L0042946-02	Water	05/13/2014 10:34	5/14/2014 10:00 00 AM		☐
MW-4	L0042946-03	Water	05/13/2014 11:39	5/14/2014 10 00:00 AM		☐
MW-7	L0042946-04	Water	05/12/2014 14:52	5/14/2014 10.00:00 AM		☐
MW-12	L0042946-05	Water	05/13/2014 11:53	5/14/2014 10 00:00 AM		☐
MW-13	L0042946-06	Water	05/12/2014 17:23	5/14/2014 10 00:00 AM		☐
MW-14	L0042946-07	Water	05/12/2014 13:53	5/14/2014 10.00:00 AM		☐
MW-15	L0042946-08	Water	05/12/2014 14:21	5/14/2014 10:00:00 AM		☐
MW-16	L0042946-09	Water	05/13/2014 10:53	5/14/2014 10:00:00 AM		☐
MW-17	L0042946-10	Water	05/12/2014 15:12	5/14/2014 10:00.00 AM		☐
MW-25	L0042946-11	Water	05/13/2014 12:31	5/14/2014 10:00:00 AM		☐
MW-26	L0042946-12	Water	05/13/2014 9.46	5/14/2014 10:00.00 AM		☐
MW-27	L0042946-13	Water	05/13/2014 15:19	5/14/2014 10:00.00 AM		☐
DMW-2	L0042946-14	Water	05/13/2014 12:17	5/14/2014 10:00 00 AM		☐
DMW-3	L0042946-15	Water	05/13/2014 10.22	5/14/2014 10:00 00 AM		☐
MW-18D	L0042946-16	Water	05/13/2014 11:29	5/14/2014 10:00.00 AM		☐
MW-19D	L0042946-17	Water	05/13/2014 9:48	5/14/2014 10:00:00 AM		☐
MW-20D	L0042946-18	Water	05/13/2014 13:20	5/14/2014 10:00 00 AM		☐
MW-21D	L0042946-19	Water	05/12/2014 10:56	5/14/2014 10 00:00 AM		☐
MW-PL-1	L0042946-20	Water	05/12/2014 16:34	5/14/2014 10:00:00 AM		☐
MW-PL-2	L0042946-21	Water	05/12/2014 16:16	5/14/2014 10:00:00 AM		☐
MW-PL-3	L0042946-22	Water	05/12/2014 15:53	5/14/2014 10.00 00 AM		☐

Christina Larriviere
Project Manager

5/22/2014
Date

Ron Benjamin
Laboratory Director

Karen Rodrigue-Varnado
Quality Assurance Officer

Version 2.1 - Modified February 11, 2011

5/22/2014 3 40 24 PM

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

CARDNO ATC

Certificate of Analysis Number:

L0042946

Report To: CARDNO ATC
JESSE KEEFFE
400 NORTHEAST DR, UNIT Q

COLUMBIA
SC
29203-
ph: (803) 735-0003 fax:

Fax To:

Project Name: ANDERSON, SC
Site: PANTRY #585 FORMER 81 FOOD MAR
Site Address:

PO Number:
State: South Carolina
State Cert. No.: 73004001
Date Reported: 5/22/2014

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
KMO-3	L0042946-23	Water	05/12/2014 17.59	5/14/2014 10:00 00 AM		☐
KMO-5	L0042946-24	Water	05/12/2014 17:40	5/14/2014 10 00:00 AM		☐
KMO-6	L0042946-25	Water	05/12/2014 14:37	5/14/2014 10:00:00 AM		☐
KMO-10	L0042946-26	Water	05/12/2014 15:36	5/14/2014 10:00:00 AM		☐
KMO-11	L0042946-27	Water	05/12/2014 14:53	5/14/2014 10.00:00 AM		☐
KMO-12	L0042946-28	Water	05/12/2014 15:24	5/14/2014 10 00:00 AM		☐
KMO-17	L0042946-29	Water	05/12/2014 16:53	5/14/2014 10 00:00 AM		☐
KMO-18	L0042946-30	Water	05/12/2014 17:10	5/14/2014 10:00:00 AM		☐
DUP-1	L0042946-31	Water	05/12/2014 15:17	5/14/2014 10:00:00 AM		☐
DUP-2	L0042946-32	Water	05/13/2014 11:58	5/14/2014 10.00 00 AM		☐
FIELD BLANK 1	L0042946-33	Water	05/12/2014 15:30	5/14/2014 10:00 00 AM		☐
FIELD BLANK 2	L0042946-34	Water	05/13/2014 12:45	5/14/2014 10:00.00 AM		☐
TRIP BLANK	L0042946-35	Water	05/12/2014 8:00	5/14/2014 10:00.00 AM		☐
TRIP BLANK	L0042946-36	Water	05/12/2014 8 02	5/14/2014 10:00.00 AM		☐
TRIP BLANK	L0042946-37	Water	05/12/2014 8 04	5/14/2014 10:00:00 AM		☐

Christina Larniere
Project Manager

5/22/2014
Date

Ron Benjamin
Laboratory Director

Karen Rodrigue-Varnado
Quality Assurance Officer

Version 2.1 - Modified February 11, 2011

5/22/2014 3 40 24 PM

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID MW-2 **Collected:** 05/13/2014 10:09 **Lab Sample ID:** L0042946-01

Site: **PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1**

Analyses/Method	Result	QUAL		Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP					**MCL**		**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND			0 021		1	05/16/14 21:58	DF	5557216
Surr: 1-Chloro-2-fluorobenzene	197	MI	%	32-169		1	05/16/14 21:58	DF	5557216

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/14/2014 16:52	CNR	1.06

VOLATILE ORGANICS:METHOD 8260B					MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND			10		1	05/18/14 7:31	SNV	5551980
Diisopropyl ether	ND			5	150	1	05/18/14 7:31	SNV	5551980
Ethanol	ND			100	1000	1	05/18/14 7:31	SNV	5551980
t-Butyl alcohol	ND			10	1400	1	05/18/14 7:31	SNV	5551980
tert-Amyl alcohol	ND			10	240	1	05/18/14 7:31	SNV	5551980
tert-Amyl methyl ether	ND			5	128	1	05/18/14 7:31	SNV	5551980
tert-Butyl ethyl ether	ND			5	47	1	05/18/14 7:31	SNV	5551980
tert-Butyl formate	ND			1	100	1	05/18/14 7:31	SNV	5551980
1,2-Dichloroethane	ND			5		1	05/18/14 7:31	SNV	5551980
Benzene	ND			1		1	05/18/14 7.31	SNV	5551980
Ethylbenzene	ND			1		1	05/18/14 7:31	SNV	5551980
Methyl tert-butyl ether	ND			1		1	05/18/14 7.31	SNV	5551980
Naphthalene	ND			5		1	05/18/14 7:31	SNV	5551980
Toluene	ND			1		1	05/18/14 7:31	SNV	5551980
m,p-Xylene	ND			2		1	05/18/14 7:31	SNV	5551980
o-Xylene	ND			2		1	05/18/14 7:31	SNV	5551980
Xylenes,Total	ND			2		1	05/18/14 7:31	SNV	5551980
Surr 1,2-Dichloroethane-d4	101		%	84-124		1	05/18/14 7 31	SNV	5551980
Surr. 4-Bromofluorobenzene	100		%	89-111		1	05/18/14 7 31	SNV	5551980
Surr. Toluene-d8	99.2		%	83-115		1	05/18/14 7 31	SNV	5551980

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

5/22/2014 3 41 41 PM

Version 2.2 - Modified January 16, 2012

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID MW-3 **Collected:** 05/13/2014 10:34 **Lab Sample ID:** L0042946-02

Site: **PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1**

Analyses/Method	Result	QUAL		Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP					**MCL**		**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND			0.021		1	05/16/14 22:19	DF	5557217
Surr. 1-Chloro-2-fluorobenzene	164		%	32-169		1	05/16/14 22:19	DF	5557217

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/14/2014 16:52	CNR	1.06

VOLATILE ORGANICS:METHOD 8260B					MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND			10		1	05/18/14 7:59	SNV	5551981
Diisopropyl ether	ND			5	150	1	05/18/14 7:59	SNV	5551981
Ethanol	ND			100	1000	1	05/18/14 7:59	SNV	5551981
t-Butyl alcohol	ND			10	1400	1	05/18/14 7:59	SNV	5551981
tert-Amyl alcohol	ND			10	240	1	05/18/14 7:59	SNV	5551981
tert-Amyl methyl ether	ND			5	128	1	05/18/14 7:59	SNV	5551981
tert-Butyl ethyl ether	ND			5	47	1	05/18/14 7:59	SNV	5551981
tert-Butyl formate	ND			1	100	1	05/18/14 7:59	SNV	5551981
1,2-Dichloroethane	ND			5		1	05/18/14 7:59	SNV	5551981
Benzene	ND			1		1	05/18/14 7:59	SNV	5551981
Ethylbenzene	ND			1		1	05/18/14 7:59	SNV	5551981
Methyl tert-butyl ether	ND			1		1	05/18/14 7:59	SNV	5551981
Naphthalene	ND			5		1	05/18/14 7:59	SNV	5551981
Toluene	ND			1		1	05/18/14 7:59	SNV	5551981
m,p-Xylene	ND			2		1	05/18/14 7:59	SNV	5551981
o-Xylene	ND			2		1	05/18/14 7:59	SNV	5551981
Xylenes,Total	ND			2		1	05/18/14 7:59	SNV	5551981
Surr: 1,2-Dichloroethane-d4	98.6		%	84-124		1	05/18/14 7:59	SNV	5551981
Surr: 4-Bromofluorobenzene	100		%	89-111		1	05/18/14 7:59	SNV	5551981
Surr: Toluene-d8	102		%	83-115		1	05/18/14 7:59	SNV	5551981

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

5/22/2014 3 41 48 PM

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID MW-4 **Collected:** 05/13/2014 11:39 **Lab Sample ID:** L0042946-03

Site: **PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1**

Analyses/Method	Result	QUAL		Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP					**MCL**		**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND			0.022		1	05/22/14 0:10	DF	5558094
Surr. 1-Chloro-2-fluorobenzene	214	*	%	32-169		1	05/22/14 0.10	DF	5558094

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/19/2014 18:03	CNR	1.09

VOLATILE ORGANICS:METHOD 8260B					MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND			10		1	05/18/14 8:27	SNV	5551982
Diisopropyl ether	ND			5	150	1	05/18/14 8:27	SNV	5551982
Ethanol	ND			100	1000	1	05/18/14 8:27	SNV	5551982
t-Butyl alcohol	ND			10	1400	1	05/18/14 8:27	SNV	5551982
tert-Amyl alcohol	ND			10	240	1	05/18/14 8:27	SNV	5551982
tert-Amyl methyl ether	ND			5	128	1	05/18/14 8:27	SNV	5551982
tert-Butyl ethyl ether	ND			5	47	1	05/18/14 8:27	SNV	5551982
tert-Butyl formate	ND			1	100	1	05/18/14 8:27	SNV	5551982
1,2-Dichloroethane	ND			5		1	05/18/14 8:27	SNV	5551982
Benzene	ND			1		1	05/18/14 8:27	SNV	5551982
Ethylbenzene	ND			1		1	05/18/14 8:27	SNV	5551982
Methyl tert-butyl ether	ND			1		1	05/18/14 8:27	SNV	5551982
Naphthalene	ND			5		1	05/18/14 8:27	SNV	5551982
Toluene	ND			1		1	05/18/14 8:27	SNV	5551982
m,p-Xylene	ND			2		1	05/18/14 8:27	SNV	5551982
o-Xylene	ND			2		1	05/18/14 8:27	SNV	5551982
Xylenes,Total	ND			2		1	05/18/14 8:27	SNV	5551982
Surr: 1,2-Dichloroethane-d4	98 1		%	84-124		1	05/18/14 8:27	SNV	5551982
Surr: 4-Bromofluorobenzene	101		%	89-111		1	05/18/14 8:27	SNV	5551982
Surr: Toluene-d8	99 4		%	83-115		1	05/18/14 8:27	SNV	5551982

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

5/22/2014 3 41 51 PM

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID MW-7 **Collected:** 05/12/2014 14:52 **Lab Sample ID:** L0042946-04

Site: PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1

Analyses/Method	Result	QUAL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP				**MCL**		**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND		0.021		1	05/16/14 23:02	DF	5557219
Surr 1-Chloro-2-fluorobenzene	126		% 32-169		1	05/16/14 23 02	DF	5557219

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/14/2014 16:52	CNR	1.06

VOLATILE ORGANICS:METHOD 8260B				MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND		10		1	05/18/14 8:54	SNV	5551983
Diisopropyl ether	ND		5	150	1	05/18/14 8:54	SNV	5551983
Ethanol	ND		100	1000	1	05/18/14 8:54	SNV	5551983
t-Butyl alcohol	ND		10	1400	1	05/18/14 8:54	SNV	5551983
tert-Amyl alcohol	ND		10	240	1	05/18/14 8:54	SNV	5551983
tert-Amyl methyl ether	ND		5	128	1	05/18/14 8:54	SNV	5551983
tert-Butyl ethyl ether	ND		5	47	1	05/18/14 8:54	SNV	5551983
tert-Butyl formate	ND		1	100	1	05/18/14 8:54	SNV	5551983
1,2-Dichloroethane	ND		5		1	05/18/14 8:54	SNV	5551983
Benzene	ND		1		1	05/18/14 8.54	SNV	5551983
Ethylbenzene	ND		1		1	05/18/14 8:54	SNV	5551983
Methyl tert-butyl ether	ND		1		1	05/18/14 8 54	SNV	5551983
Naphthalene	ND		5		1	05/18/14 8 54	SNV	5551983
Toluene	ND		1		1	05/18/14 8:54	SNV	5551983
m,p-Xylene	ND		2		1	05/18/14 8.54	SNV	5551983
o-Xylene	ND		2		1	05/18/14 8:54	SNV	5551983
Xylenes,Total	ND		2		1	05/18/14 8:54	SNV	5551983
Surr: 1,2-Dichloroethane-d4	100		% 84-124		1	05/18/14 8 54	SNV	5551983
Surr: 4-Bromofluorobenzene	102		% 89-111		1	05/18/14 8 54	SNV	5551983
Surr: Toluene-d8	100		% 83-115		1	05/18/14 8 54	SNV	5551983

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

5/22/2014 3 41 53 PM

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID MW-12 **Collected:** 05/13/2014 11:53 **Lab Sample ID:** L0042946-05

Site: **PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1**

Analyses/Method	Result	QUAL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP				**MCL**		**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND		0.022		1	05/16/14 23 23	DF	5557220
Surr: 1-Chloro-2-fluorobenzene	147		% 32-169		1	05/16/14 23.23	DF	5557220

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/14/2014 16 52	CNR	1.09

VOLATILE ORGANICS:METHOD 8260B				MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND		1000		100	05/15/14 14.51	HJL	5554329
Diisopropyl ether	**2300**	**>MCL**	**500**	**150**	**100**	**05/15/14 14:51**	**HJL**	**5554329**
Ethanol	ND		10000	1000	100	05/15/14 14:51	HJL	5554329
t-Butyl alcohol	**9400**	**>MCL**	**1000**	**1400**	**100**	**05/15/14 14:51**	**HJL**	**5554329**
tert-Amyl alcohol	**51000**	**>MCL**	**1000**	**240**	**100**	**05/15/14 14:51**	**HJL**	**5554329**
tert-Amyl methyl ether	ND		500	128	100	05/15/14 14:51	HJL	5554329
tert-Butyl ethyl ether	ND		500	47	100	05/15/14 14:51	HJL	5554329
tert-Butyl formate	ND		100	100	100	05/15/14 14:51	HJL	5554329
1,2-Dichloroethane	ND		500		100	05/15/14 14:51	HJL	5554329
Benzene	23000		100		100	05/15/14 14:51	HJL	5554329
Ethylbenzene	2000		100		100	05/15/14 14 51	HJL	5554329
Methyl tert-butyl ether	12000		100		100	05/15/14 14:51	HJL	5554329
Naphthalene	540		500		100	05/15/14 14:51	HJL	5554329
Toluene	22000		100		100	05/15/14 14·51	HJL	5554329
m,p-Xylene	5300		200		100	05/15/14 14 51	HJL	5554329
o-Xylene	2800		200		100	05/15/14 14 51	HJL	5554329
Xylenes,Total	8100		200		100	05/15/14 14 51	HJL	5554329
Surr 1,2-Dichloroethane-d4	103		% 84-124		100	05/15/14 14:51	HJL	5554329
Surr 4-Bromofluorobenzene	101		% 89-111		100	05/15/14 14.51	HJL	5554329
Surr Toluene-d8	97.3		% 83-115		100	05/15/14 14:51	HJL	5554329

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

5/22/2014 3 41 56 PM

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID MW-13 **Collected:** 05/12/2014 17:23 **Lab Sample ID:** L0042946-06

Site: PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1

Analyses/Method	Result	QUAL		Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP					**MCL**		**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND			0 021		1	05/16/14 23:44	DF	5557221
Surr: 1-Chloro-2-fluorobenzene	413	MI	%	32-169		1	05/16/14 23 44	DF	5557221

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/14/2014 16.52	CNR	1.05

VOLATILE ORGANICS:METHOD 8260B					MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND			50		5	05/18/14 9:22	SNV	5551984
Diisopropyl ether	28			25	150	5	05/18/14 9:22	SNV	5551984
Ethanol	ND			500	1000	5	05/18/14 9:22	SNV	5551984
t-Butyl alcohol	ND			50	1400	5	05/18/14 9:22	SNV	5551984
tert-Amyl alcohol	**1800**	**>MCL**		**50**	**240**	**5**	**05/18/14 9:22**	**SNV**	**5551984**
tert-Amyl methyl ether	ND			25	128	5	05/18/14 9.22	SNV	5551984
tert-Butyl ethyl ether	ND			25	47	5	05/18/14 9 22	SNV	5551984
tert-Butyl formate	ND			5	100	5	05/18/14 9 22	SNV	5551984
1,2-Dichloroethane	ND			25		5	05/18/14 9.22	SNV	5551984
Benzene	2900			20		20	05/19/14 15 52	NN	5553097
Ethylbenzene	720			5		5	05/18/14 9.22	SNV	5551984
Methyl tert-butyl ether	ND			5		5	05/18/14 9:22	SNV	5551984
Naphthalene	280			25		5	05/18/14 9.22	SNV	5551984
Toluene	860			5		5	05/18/14 9:22	SNV	5551984
m,p-Xylene	620			10		5	05/18/14 9:22	SNV	5551984
o-Xylene	370			10		5	05/18/14 9:22	SNV	5551984
Xylenes,Total	990			10		5	05/18/14 9:22	SNV	5551984
Surr: 1,2-Dichloroethane-d4	105		%	84-124		5	05/18/14 9:22	SNV	5551984
Surr: 1,2-Dichloroethane-d4	103		%	84-124		20	05/19/14 15:52	NN	5553097
Surr: 4-Bromofluorobenzene	99 6		%	89-111		5	05/18/14 9:22	SNV	5551984
Surr: 4-Bromofluorobenzene	100		%	89-111		20	05/19/14 15:52	NN	5553097
Surr: Toluene-d8	99.1		%	83-115		5	05/18/14 9:22	SNV	5551984
Surr: Toluene-d8	102		%	83-115		20	05/19/14 15:52	NN	5553097

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

5/22/2014 3 41 59 PM

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Client Sample ID MW-14 **Collected:** 05/12/2014 13:53 **Lab Sample ID:** L0042946-07

Site: **PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1**

Analyses/Method	Result	QUAL		Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP					**MCL**		**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND			0.021		1	05/17/14 0:06	DF	5557222
Surr: 1-Chloro-2-fluorobenzene	130		%	32-169		1	05/17/14 0:06	DF	5557222

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/14/2014 16:52	CNR	1 07

VOLATILE ORGANICS:METHOD 8260B					MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND			10		1	05/18/14 4:02	SNV	5551897
Diisopropyl ether	ND			5	150	1	05/18/14 4:02	SNV	5551897
Ethanol	ND			100	1000	1	05/18/14 4:02	SNV	5551897
t-Butyl alcohol	ND			10	1400	1	05/18/14 4:02	SNV	5551897
tert-Amyl alcohol	ND			10	240	1	05/18/14 4:02	SNV	5551897
tert-Amyl methyl ether	ND			5	128	1	05/18/14 4:02	SNV	5551897
tert-Butyl ethyl ether	ND			5	47	1	05/18/14 4:02	SNV	5551897
tert-Butyl formate	ND			1	100	1	05/18/14 4 02	SNV	5551897
1,2-Dichloroethane	ND			5		1	05/18/14 4:02	SNV	5551897
Benzene	ND			1		1	05/18/14 4:02	SNV	5551897
Ethylbenzene	ND			1		1	05/18/14 4:02	SNV	5551897
Methyl tert-butyl ether	ND			1		1	05/18/14 4:02	SNV	5551897
Naphthalene	ND			5		1	05/18/14 4:02	SNV	5551897
Toluene	ND			1		1	05/18/14 4:02	SNV	5551897
m,p-Xylene	ND			2		1	05/18/14 4:02	SNV	5551897
o-Xylene	ND			2		1	05/18/14 4:02	SNV	5551897
Xylenes,Total	ND			2		1	05/18/14 4:02	SNV	5551897
Surr: 1,2-Dichloroethane-d4	98 5		%	84-124		1	05/18/14 4:02	SNV	5551897
Surr: 4-Bromofluorobenzene	100		%	89-111		1	05/18/14 4:02	SNV	5551897
Surr: Toluene-d8	96.6		%	83-115		1	05/18/14 4:02	SNV	5551897

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

5/22/2014 3 42 02 PM

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(337) 237-4775

Client Sample ID MW-15 **Collected:** 05/12/2014 14:21 **Lab Sample ID:** L0042946-08

Site: **PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1**

Analyses/Method	Result	QUAL		Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP					**MCL**	**SW8011**	**Units: ug/L**		
1,2-Dibromoethane	ND			0.021		1	05/17/14 0:48	DF	5557224
Surr. 1-Chloro-2-fluorobenzene	179	MI	%	32-169		1	05/17/14 0:48	DF	5557224

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/14/2014 16:52	CNR	1 05

VOLATILE ORGANICS:METHOD 8260B					MCL	SW8260B	Units: ug/L		
3,3-Dimethyl-1-butanol	ND			10		1	05/18/14 4:30	SNV	5551898
Diisopropyl ether	ND			5	150	1	05/18/14 4:30	SNV	5551898
Ethanol	ND			100	1000	1	05/18/14 4:30	SNV	5551898
t-Butyl alcohol	ND			10	1400	1	05/18/14 4:30	SNV	5551898
tert-Amyl alcohol	ND			10	240	1	05/18/14 4 30	SNV	5551898
tert-Amyl methyl ether	ND			5	128	1	05/18/14 4 30	SNV	5551898
tert-Butyl ethyl ether	ND			5	47	1	05/18/14 4 30	SNV	5551898
tert-Butyl formate	ND			1	100	1	05/18/14 4:30	SNV	5551898
1,2-Dichloroethane	ND			5		1	05/18/14 4 30	SNV	5551898
Benzene	ND			1		1	05/18/14 4.30	SNV	5551898
Ethylbenzene	ND			1		1	05/18/14 4.30	SNV	5551898
Methyl tert-butyl ether	ND			1		1	05/18/14 4:30	SNV	5551898
Naphthalene	ND			5		1	05/18/14 4:30	SNV	5551898
Toluene	ND			1		1	05/18/14 4:30	SNV	5551898
m,p-Xylene	ND			2		1	05/18/14 4:30	SNV	5551898
o-Xylene	ND			2		1	05/18/14 4:30	SNV	5551898
Xylenes,Total	ND			2		1	05/18/14 4:30	SNV	5551898
Surr: 1,2-Dichloroethane-d4	96.7		%	84-124		1	05/18/14 4:30	SNV	5551898
Surr: 4-Bromofluorobenzene	102		%	89-111		1	05/18/14 4:30	SNV	5551898
Surr: Toluene-d8	97.8		%	83-115		1	05/18/14 4:30	SNV	5551898

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

5/22/2014 3 42 04 PM

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(337) 237-4775

Client Sample ID MW-16 **Collected:** 05/13/2014 10:53 **Lab Sample ID:** L0042946-09

Site: **PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1**

Analyses/Method	Result	QUAL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP				**MCL**		**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND		0.021		1	05/17/14 1 09	DF	5557225
Surr: 1-Chloro-2-fluorobenzene	179	MI	% 32-169		1	05/17/14 1:09	DF	5557225

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/14/2014 16:52	CNR	1.06

VOLATILE ORGANICS:METHOD 8260B				MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND		10		1	05/18/14 4 58	SNV	5551899
Diisopropyl ether	ND		5	150	1	05/18/14 4:58	SNV	5551899
Ethanol	ND		100	1000	1	05/18/14 4:58	SNV	5551899
t-Butyl alcohol	ND		10	1400	1	05/18/14 4:58	SNV	5551899
tert-Amyl alcohol	ND		10	240	1	05/18/14 4:58	SNV	5551899
tert-Amyl methyl ether	ND		5	128	1	05/18/14 4:58	SNV	5551899
tert-Butyl ethyl ether	ND		5	47	1	05/18/14 4:58	SNV	5551899
tert-Butyl formate	ND		1	100	1	05/18/14 4:58	SNV	5551899
1,2-Dichloroethane	ND		5		1	05/18/14 4:58	SNV	5551899
Benzene	ND		1		1	05/18/14 4:58	SNV	5551899
Ethylbenzene	ND		1		1	05/18/14 4:58	SNV	5551899
Methyl tert-butyl ether	ND		1		1	05/18/14 4:58	SNV	5551899
Naphthalene	ND		5		1	05/18/14 4:58	SNV	5551899
Toluene	ND		1		1	05/18/14 4:58	SNV	5551899
m,p-Xylene	ND		2		1	05/18/14 4:58	SNV	5551899
o-Xylene	ND		2		1	05/18/14 4:58	SNV	5551899
Xylenes,Total	ND		2		1	05/18/14 4:58	SNV	5551899
Surr. 1,2-Dichloroethane-d4	98.1		% 84-124		1	05/18/14 4 58	SNV	5551899
Surr: 4-Bromofluorobenzene	100		% 89-111		1	05/18/14 4:58	SNV	5551899
Surr: Toluene-d8	97.3		% 83-115		1	05/18/14 4:58	SNV	5551899

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

5/22/2014 3 42 06 PM

ACCUTEST LABORATORIES

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500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID MW-17 **Collected:** 05/12/2014 15:12 **Lab Sample ID:** L0042946-10

Site: **PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1**

Analyses/Method	Result	QUAL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP				**MCL**		**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND		0.021		1	05/17/14 1:30	DF	5557226
Surr: 1-Chloro-2-fluorobenzene	74.5		% 32-169		1	05/17/14 1:30	DF	5557226

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/14/2014 16:52	CNR	1.07

VOLATILE ORGANICS:METHOD 8260B				MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND		1000		100	05/18/14 5:26	SNV	5551900
Diisopropyl ether	ND		500	150	100	05/18/14 5:26	SNV	5551900
Ethanol	ND		10000	1000	100	05/18/14 5:26	SNV	5551900
t-Butyl alcohol	ND		1000	1400	100	05/18/14 5:26	SNV	5551900
tert-Amyl alcohol	**5900**	**>MCL**	**1000**	**240**	**100**	**05/18/14 5:26**	**SNV**	**5551900**
tert-Amyl methyl ether	ND		500	128	100	05/18/14 5:26	SNV	5551900
tert-Butyl ethyl ether	ND		500	47	100	05/18/14 5:26	SNV	5551900
tert-Butyl formate	ND		100	100	100	05/18/14 5:26	SNV	5551900
1,2-Dichloroethane	5000		500		100	05/18/14 5:26	SNV	5551900
Benzene	5900		100		100	05/18/14 5:26	SNV	5551900
Ethylbenzene	2100		100		100	05/18/14 5:26	SNV	5551900
Methyl tert-butyl ether	ND		100		100	05/18/14 5:26	SNV	5551900
Naphthalene	820		500		100	05/18/14 5:26	SNV	5551900
Toluene	24000		100		100	05/18/14 5:26	SNV	5551900
m,p-Xylene	8100		200		100	05/18/14 5:26	SNV	5551900
o-Xylene	3800		200		100	05/18/14 5:26	SNV	5551900
Xylenes,Total	11900		200		100	05/18/14 5:26	SNV	5551900
Surr: 1,2-Dichloroethane-d4	107		% 84-124		100	05/18/14 5:26	SNV	5551900
Surr: 4-Bromofluorobenzene	99.3		% 89-111		100	05/18/14 5:26	SNV	5551900
Surr: Toluene-d8	97.7		% 83-115		100	05/18/14 5 26	SNV	5551900

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

5/22/2014 3 42 09 PM

ACCUTEST LABORATORIES

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500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID MW-25 **Collected:** 05/13/2014 12:31 **Lab Sample ID:** L0042946-11

Site: **PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1**

Analyses/Method	Result	QUAL		Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP					**MCL**		**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND			0.022		1	05/17/14 1:52	DF	5557227
Surr. 1-Chloro-2-fluorobenzene	88.8		%	32-169		1	05/17/14 1:52	DF	5557227

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/14/2014 16:52	CNR	1.08

VOLATILE ORGANICS:METHOD 8260B					MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND			10		1	05/18/14 5:54	SNV	5551901
Diisopropyl ether	ND			5	150	1	05/18/14 5:54	SNV	5551901
Ethanol	ND			100	1000	1	05/18/14 5:54	SNV	5551901
t-Butyl alcohol	ND			10	1400	1	05/18/14 5:54	SNV	5551901
tert-Amyl alcohol	240			10	240	1	05/18/14 5.54	SNV	5551901
tert-Amyl methyl ether	ND			5	128	1	05/18/14 5:54	SNV	5551901
tert-Butyl ethyl ether	ND			5	47	1	05/18/14 5:54	SNV	5551901
tert-Butyl formate	ND			1	100	1	05/18/14 5:54	SNV	5551901
1,2-Dichloroethane	ND			5		1	05/18/14 5:54	SNV	5551901
Benzene	53			1		1	05/18/14 5:54	SNV	5551901
Ethylbenzene	17			1		1	05/18/14 5:54	SNV	5551901
Methyl tert-butyl ether	ND			1		1	05/18/14 5.54	SNV	5551901
Naphthalene	28			5		1	05/18/14 5:54	SNV	5551901
Toluene	43			1		1	05/18/14 5:54	SNV	5551901
m,p-Xylene	87			2		1	05/18/14 5:54	SNV	5551901
o-Xylene	67			2		1	05/18/14 5:54	SNV	5551901
Xylenes,Total	154			2		1	05/18/14 5:54	SNV	5551901
Surr: 1,2-Dichloroethane-d4	99 1		%	84-124		1	05/18/14 5:54	SNV	5551901
Surr: 4-Bromofluorobenzene	100		%	89-111		1	05/18/14 5:54	SNV	5551901
Surr: Toluene-d8	100		%	83-115		1	05/18/14 5:54	SNV	5551901

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

5/22/2014 3 42 13 PM

ACCUTEST LABORATORIES

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500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID MW-26 **Collected:** 05/13/2014 9.46 **Lab Sample ID:** L0042946-12

Site: **PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1**

Analyses/Method	Result	QUAL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP				**MCL**		**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND		0.021		1	05/17/14 2:13	DF	5557228
Surr. 1-Chloro-2-fluorobenzene	110	%	32-169		1	05/17/14 2:13	DF	5557228

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/14/2014 16:52	CNR	1.07

VOLATILE ORGANICS:METHOD 8260B				MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND		10		1	05/18/14 6:21	SNV	5551902
Diisopropyl ether	ND		5	150	1	05/18/14 6 21	SNV	5551902
Ethanol	ND		100	1000	1	05/18/14 6.21	SNV	5551902
t-Butyl alcohol	ND		10	1400	1	05/18/14 6:21	SNV	5551902
tert-Amyl alcohol	ND		10	240	1	05/18/14 6:21	SNV	5551902
tert-Amyl methyl ether	ND		5	128	1	05/18/14 6 21	SNV	5551902
tert-Butyl ethyl ether	ND		5	47	1	05/18/14 6 21	SNV	5551902
tert-Butyl formate	ND		1	100	1	05/18/14 6:21	SNV	5551902
1,2-Dichloroethane	ND		5		1	05/18/14 6.21	SNV	5551902
Benzene	ND		1		1	05/18/14 6:21	SNV	5551902
Ethylbenzene	ND		1		1	05/18/14 6 21	SNV	5551902
Methyl tert-butyl ether	ND		1		1	05/18/14 6:21	SNV	5551902
Naphthalene	ND		5		1	05/18/14 6:21	SNV	5551902
Toluene	ND		1		1	05/18/14 6:21	SNV	5551902
m,p-Xylene	ND		2		1	05/18/14 6.21	SNV	5551902
o-Xylene	ND		2		1	05/18/14 6:21	SNV	5551902
Xylenes,Total	ND		2		1	05/18/14 6:21	SNV	5551902
Surr: 1,2-Dichloroethane-d4	100	%	84-124		1	05/18/14 6:21	SNV	5551902
Surr 4-Bromofluorobenzene	101	%	89-111		1	05/18/14 6:21	SNV	5551902
Surr: Toluene-d8	99.3	%	83-115		1	05/18/14 6:21	SNV	5551902

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

5/22/2014 3 42 17 PM

ACCUTEST LABORATORIES

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500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID MW-27 **Collected:** 05/13/2014 15:19 **Lab Sample ID:** L0042946-13

Site: PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1

Analyses/Method	Result	QUAL		Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP						**SW8011**	**Units: ug/L**		
1,2-Dibromoethane	ND			0.022		1	05/17/14 2:35	DF	5557229
Surr: 1-Chloro-2-fluorobenzene	205	MI	%	32-169		1	05/17/14 2.35	DF	5557229

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/14/2014 16:52	CNR	1.08

VOLATILE ORGANICS:METHOD 8260B					MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND			100		10	05/18/14 6:49	SNV	5551903
Diisopropyl ether	58			50	150	10	05/18/14 6 49	SNV	5551903
Ethanol	ND			1000	1000	10	05/18/14 6.49	SNV	5551903
t-Butyl alcohol	ND			100	1400	10	05/18/14 6:49	SNV	5551903
tert-Amyl alcohol	**810**	**>MCL**		**100**	**240**	**10**	**05/18/14 6:49**	**SNV**	**5551903**
tert-Amyl methyl ether	ND			50	128	10	05/18/14 6:49	SNV	5551903
tert-Butyl ethyl ether	ND			50	47	10	05/18/14 6 49	SNV	5551903
tert-Butyl formate	ND			10	100	10	05/18/14 6 49	SNV	5551903
1,2-Dichloroethane	ND			50		10	05/18/14 6:49	SNV	5551903
Benzene	1200			10		10	05/18/14 6:49	SNV	5551903
Ethylbenzene	950			10		10	05/18/14 6:49	SNV	5551903
Methyl tert-butyl ether	120			10		10	05/18/14 6:49	SNV	5551903
Naphthalene	650			50		10	05/18/14 6·49	SNV	5551903
Toluene	2600			10		10	05/18/14 6 49	SNV	5551903
m,p-Xylene	3800			20		10	05/18/14 6.49	SNV	5551903
o-Xylene	1800			20		10	05/18/14 6:49	SNV	5551903
Xylenes,Total	5600			20		10	05/18/14 6:49	SNV	5551903
Surr: 1,2-Dichloroethane-d4	100		%	84-124		10	05/18/14 6 49	SNV	5551903
Surr: 4-Bromofluorobenzene	103		%	89-111		10	05/18/14 6 49	SNV	5551903
Surr: Toluene-d8	99 7		%	83-115		10	05/18/14 6:49	SNV	5551903

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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(337) 237-4775

Client Sample ID DMW-2 **Collected:** 05/13/2014 12 17 **Lab Sample ID:** L0042946-14

Site: **PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1**

Analyses/Method	Result	QUAL		Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP					**MCL**		**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND			0.021		1	05/17/14 2 56	DF	5557230
Surr: 1-Chloro-2-fluorobenzene	200	MI	%	32-169		1	05/17/14 2 56	DF	5557230

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/14/2014 16.52	CNR	1.06

VOLATILE ORGANICS:METHOD 8260B					MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND			10		1	05/18/14 7:17	SNV	5551904
Diisopropyl ether	ND			5	150	1	05/18/14 7:17	SNV	5551904
Ethanol	ND			100	1000	1	05/18/14 7:17	SNV	5551904
t-Butyl alcohol	ND			10	1400	1	05/18/14 7:17	SNV	5551904
tert-Amyl alcohol	ND			10	240	1	05/18/14 7:17	SNV	5551904
tert-Amyl methyl ether	ND			5	128	1	05/18/14 7:17	SNV	5551904
tert-Butyl ethyl ether	ND			5	47	1	05/18/14 7:17	SNV	5551904
tert-Butyl formate	ND			1	100	1	05/18/14 7:17	SNV	5551904
1,2-Dichloroethane	ND			5		1	05/18/14 7:17	SNV	5551904
Benzene	6.2			1		1	05/18/14 7:17	SNV	5551904
Ethylbenzene	12			1		1	05/18/14 7:17	SNV	5551904
Methyl tert-butyl ether	ND			1		1	05/18/14 7:17	SNV	5551904
Naphthalene	6.6			5		1	05/18/14 7:17	SNV	5551904
Toluene	37			1		1	05/18/14 7:17	SNV	5551904
m,p-Xylene	49			2		1	05/18/14 7:17	SNV	5551904
o-Xylene	25			2		1	05/18/14 7:17	SNV	5551904
Xylenes,Total	74			2		1	05/18/14 7 17	SNV	5551904
Surr: 1,2-Dichloroethane-d4	100		%	84-124		1	05/18/14 7 17	SNV	5551904
Surr: 4-Bromofluorobenzene	101		%	89-111		1	05/18/14 7:17	SNV	5551904
Surr: Toluene-d8	95 8		%	83-115		1	05/18/14 7 17	SNV	5551904

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID DMW-3 **Collected:** 05/13/2014 10:22 **Lab Sample ID:** L0042946-15

Site: **PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1**

Analyses/Method	Result	QUAL		Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP					**MCL**		**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND			0.021		1	05/17/14 3:17	DF	5557231
Surr. 1-Chloro-2-fluorobenzene	182	MI	%	32-169		1	05/17/14 3:17	DF	5557231

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/14/2014 16:52	CNR	1.05

VOLATILE ORGANICS:METHOD 8260B					MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND			10		1	05/18/14 7:45	SNV	5551905
Diisopropyl ether	ND			5	150	1	05/18/14 7:45	SNV	5551905
Ethanol	ND			100	1000	1	05/18/14 7:45	SNV	5551905
t-Butyl alcohol	ND			10	1400	1	05/18/14 7:45	SNV	5551905
tert-Amyl alcohol	ND			10	240	1	05/18/14 7:45	SNV	5551905
tert-Amyl methyl ether	ND			5	128	1	05/18/14 7:45	SNV	5551905
tert-Butyl ethyl ether	ND			5	47	1	05/18/14 7:45	SNV	5551905
tert-Butyl formate	ND			1	100	1	05/18/14 7:45	SNV	5551905
1,2-Dichloroethane	ND			5		1	05/18/14 7:45	SNV	5551905
Benzene	ND			1		1	05/18/14 7:45	SNV	5551905
Ethylbenzene	ND			1		1	05/18/14 7:45	SNV	5551905
Methyl tert-butyl ether	ND			1		1	05/18/14 7:45	SNV	5551905
Naphthalene	ND			5		1	05/18/14 7:45	SNV	5551905
Toluene	1.3			1		1	05/18/14 7:45	SNV	5551905
m,p-Xylene	ND			2		1	05/18/14 7:45	SNV	5551905
o-Xylene	ND			2		1	05/18/14 7:45	SNV	5551905
Xylenes,Total	ND			2		1	05/18/14 7:45	SNV	5551905
Surr 1,2-Dichloroethane-d4	102		%	84-124		1	05/18/14 7:45	SNV	5551905
Surr. 4-Bromofluorobenzene	99 5		%	89-111		1	05/18/14 7:45	SNV	5551905
Surr: Toluene-d8	96.0		%	83-115		1	05/18/14 7:45	SNV	5551905

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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SCOTT, LA 70583
(337) 237-4775

Client Sample ID MW-18D **Collected:** 05/13/2014 11:29 **Lab Sample ID:** L0042946-16

Site: **PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1**

Analyses/Method	Result	QUAL		Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP					**MCL**		**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND			0.021		1	05/17/14 3:38	DF	5557232
Surr. 1-Chloro-2-fluorobenzene	154		%	32-169		1	05/17/14 3:38	DF	5557232

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/14/2014 16:52	CNR	1 06

VOLATILE ORGANICS:METHOD 8260B					MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND			10		1	05/18/14 8:13	SNV	5551906
Diisopropyl ether	ND			5	150	1	05/18/14 8:13	SNV	5551906
Ethanol	ND			100	1000	1	05/18/14 8:13	SNV	5551906
t-Butyl alcohol	ND			10	1400	1	05/18/14 8:13	SNV	5551906
tert-Amyl alcohol	ND			10	240	1	05/18/14 8 13	SNV	5551906
tert-Amyl methyl ether	ND			5	128	1	05/18/14 8.13	SNV	5551906
tert-Butyl ethyl ether	ND			5	47	1	05/18/14 8:13	SNV	5551906
tert-Butyl formate	ND			1	100	1	05/18/14 8 13	SNV	5551906
1,2-Dichloroethane	ND			5		1	05/18/14 8:13	SNV	5551906
Benzene	ND			1		1	05/18/14 8:13	SNV	5551906
Ethylbenzene	ND			1		1	05/18/14 8:13	SNV	5551906
Methyl tert-butyl ether	ND			1		1	05/18/14 8:13	SNV	5551906
Naphthalene	ND			5		1	05/18/14 8:13	SNV	5551906
Toluene	ND			1		1	05/18/14 8.13	SNV	5551906
m,p-Xylene	ND			2		1	05/18/14 8 13	SNV	5551906
o-Xylene	ND			2		1	05/18/14 8 13	SNV	5551906
Xylenes,Total	ND			2		1	05/18/14 8 13	SNV	5551906
Surr: 1,2-Dichloroethane-d4	98.7		%	84-124		1	05/18/14 8:13	SNV	5551906
Surr: 4-Bromofluorobenzene	102		%	89-111		1	05/18/14 8:13	SNV	5551906
Surr: Toluene-d8	98 6		%	83-115		1	05/18/14 8 13	SNV	5551906

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID MW-19D **Collected:** 05/13/2014 9 48 **Lab Sample ID:** L0042946-17

Site: **PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1**

Analyses/Method	Result	QUAL		Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP					**MCL**		**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND			0.021		1	05/17/14 3 59	DF	5557233
Surr: 1-Chloro-2-fluorobenzene	214	MI	%	32-169		1	05/17/14 3 59	DF	5557233

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/14/2014 16:52	CNR	1 06

VOLATILE ORGANICS:METHOD 8260B					MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND			10		1	05/18/14 8:40	SNV	5551907
Diisopropyl ether	ND			5	150	1	05/18/14 8:40	SNV	5551907
Ethanol	ND			100	1000	1	05/18/14 8:40	SNV	5551907
t-Butyl alcohol	ND			10	1400	1	05/18/14 8:40	SNV	5551907
tert-Amyl alcohol	ND			10	240	1	05/18/14 8 40	SNV	5551907
tert-Amyl methyl ether	ND			5	128	1	05/18/14 8:40	SNV	5551907
tert-Butyl ethyl ether	ND			5	47	1	05/18/14 8:40	SNV	5551907
tert-Butyl formate	ND			1	100	1	05/18/14 8 40	SNV	5551907
1,2-Dichloroethane	ND			5		1	05/18/14 8·40	SNV	5551907
Benzene	ND			1		1	05/18/14 8.40	SNV	5551907
Ethylbenzene	ND			1		1	05/18/14 8:40	SNV	5551907
Methyl tert-butyl ether	ND			1		1	05/18/14 8·40	SNV	5551907
Naphthalene	ND			5		1	05/18/14 8 40	SNV	5551907
Toluene	1			1		1	05/18/14 8:40	SNV	5551907
m,p-Xylene	ND			2		1	05/18/14 8:40	SNV	5551907
o-Xylene	ND			2		1	05/18/14 8:40	SNV	5551907
Xylenes,Total	ND			2		1	05/18/14 8:40	SNV	5551907
Surr. 1,2-Dichloroethane-d4	99.8		%	84-124		1	05/18/14 8 40	SNV	5551907
Surr 4-Bromofluorobenzene	101		%	89-111		1	05/18/14 8:40	SNV	5551907
Surr Toluene-d8	98.0		%	83-115		1	05/18/14 8:40	SNV	5551907

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

5/22/2014 3 42 35 PM

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(337) 237-4775

Client Sample ID MW-20D **Collected:** 05/13/2014 13 20 **Lab Sample ID:** L0042946-18

Site: **PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1**

Analyses/Method	Result	QUAL		Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP					**MCL**		**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND			0 021		1	05/17/14 5:46	DF	5557235
Surr. 1-Chloro-2-fluorobenzene	133		%	32-169		1	05/17/14 5:46	DF	5557235

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/14/2014 16:52	CNR	1 04

VOLATILE ORGANICS:METHOD 8260B					MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND			10		1	05/18/14 9:08	SNV	5552004
Diisopropyl ether	ND			5	150	1	05/18/14 9:08	SNV	5552004
Ethanol	ND			100	1000	1	05/18/14 9:08	SNV	5552004
t-Butyl alcohol	ND			10	1400	1	05/18/14 9:08	SNV	5552004
tert-Amyl alcohol	ND			10	240	1	05/18/14 9.08	SNV	5552004
tert-Amyl methyl ether	ND			5	128	1	05/18/14 9:08	SNV	5552004
tert-Butyl ethyl ether	ND			5	47	1	05/18/14 9:08	SNV	5552004
tert-Butyl formate	ND			1	100	1	05/18/14 9:08	SNV	5552004
1,2-Dichloroethane	ND			5		1	05/18/14 9:08	SNV	5552004
Benzene	ND			1		1	05/18/14 9:08	SNV	5552004
Ethylbenzene	ND			1		1	05/18/14 9:08	SNV	5552004
Methyl tert-butyl ether	ND			1		1	05/18/14 9.08	SNV	5552004
Naphthalene	ND			5		1	05/18/14 9:08	SNV	5552004
Toluene	ND			1		1	05/18/14 9 08	SNV	5552004
m,p-Xylene	ND			2		1	05/18/14 9:08	SNV	5552004
o-Xylene	ND			2		1	05/18/14 9 08	SNV	5552004
Xylenes,Total	ND			2		1	05/18/14 9:08	SNV	5552004
Surr. 1,2-Dichloroethane-d4	96 1		%	84-124		1	05/18/14 9:08	SNV	5552004
Surr 4-Bromofluorobenzene	103		%	89-111		1	05/18/14 9:08	SNV	5552004
Surr Toluene-d8	100		%	83-115		1	05/18/14 9:08	SNV	5552004

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

5/22/2014 3 42 37 PM

ACCUTEST LABORATORIES

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SCOTT, LA 70583
(337) 237-4775

Client Sample ID MW-21D **Collected:** 05/12/2014 10:56 **Lab Sample ID:** L0042946-19

Site: **PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1**

Analyses/Method	Result	QUAL		Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP						**SW8011**	**Units: ug/L**		
1,2-Dibromoethane	ND			0.021		1	05/17/14 6:07	DF	5557236
Surr: 1-Chloro-2-fluorobenzene	124		%	32-169		1	05/17/14 6:07	DF	5557236

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/14/2014 16.52	CNR	1.04

VOLATILE ORGANICS:METHOD 8260B					MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND			10		1	05/18/14 9:36	SNV	5551909
Diisopropyl ether	ND			5	150	1	05/18/14 9 36	SNV	5551909
Ethanol	ND			100	1000	1	05/18/14 9:36	SNV	5551909
t-Butyl alcohol	ND			10	1400	1	05/18/14 9:36	SNV	5551909
tert-Amyl alcohol	ND			10	240	1	05/18/14 9:36	SNV	5551909
tert-Amyl methyl ether	ND			5	128	1	05/18/14 9:36	SNV	5551909
tert-Butyl ethyl ether	ND			5	47	1	05/18/14 9:36	SNV	5551909
tert-Butyl formate	ND			1	100	1	05/18/14 9:36	SNV	5551909
1,2-Dichloroethane	ND			5		1	05/18/14 9:36	SNV	5551909
Benzene	ND			1		1	05/18/14 9:36	SNV	5551909
Ethylbenzene	ND			1		1	05/18/14 9:36	SNV	5551909
Methyl tert-butyl ether	1.1			1		1	05/18/14 9.36	SNV	5551909
Naphthalene	ND			5		1	05/18/14 9:36	SNV	5551909
Toluene	ND			1		1	05/18/14 9.36	SNV	5551909
m,p-Xylene	ND			2		1	05/18/14 9:36	SNV	5551909
o-Xylene	ND			2		1	05/18/14 9:36	SNV	5551909
Xylenes,Total	ND			2		1	05/18/14 9 36	SNV	5551909
Surr: 1,2-Dichloroethane-d4	96.6		%	84-124		1	05/18/14 9.36	SNV	5551909
Surr: 4-Bromofluorobenzene	99 1		%	89-111		1	05/18/14 9:36	SNV	5551909
Surr: Toluene-d8	101		%	83-115		1	05/18/14 9.36	SNV	5551909

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

5/22/2014 3 42 39 PM

ACCUTEST LABORATORIES

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500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID MW-PL-1 **Collected:** 05/12/2014 16:34 **Lab Sample ID:** L0042946-20

Site: **PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1**

Analyses/Method	Result	QUAL		Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP					**MCL**		**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND			0.021		1	05/17/14 6:28	DF	5557237
Surr: 1-Chloro-2-fluorobenzene	139		%	32-169		1	05/17/14 6:28	DF	5557237

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/14/2014 16:52	CNR	1.06

VOLATILE ORGANICS:METHOD 8260B					MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND			10		1	05/18/14 10:04	SNV	5551910
Diisopropyl ether	ND			5	150	1	05/18/14 10:04	SNV	5551910
Ethanol	ND			100	1000	1	05/18/14 10:04	SNV	5551910
t-Butyl alcohol	ND			10	1400	1	05/18/14 10:04	SNV	5551910
tert-Amyl alcohol	ND			10	240	1	05/18/14 10:04	SNV	5551910
tert-Amyl methyl ether	ND			5	128	1	05/18/14 10:04	SNV	5551910
tert-Butyl ethyl ether	ND			5	47	1	05/18/14 10:04	SNV	5551910
tert-Butyl formate	ND			1	100	1	05/18/14 10:04	SNV	5551910
1,2-Dichloroethane	ND			5		1	05/18/14 10.04	SNV	5551910
Benzene	ND			1		1	05/18/14 10.04	SNV	5551910
Ethylbenzene	ND			1		1	05/18/14 10:04	SNV	5551910
Methyl tert-butyl ether	ND			1		1	05/18/14 10 04	SNV	5551910
Naphthalene	ND			5		1	05/18/14 10:04	SNV	5551910
Toluene	ND			1		1	05/18/14 10.04	SNV	5551910
m,p-Xylene	ND			2		1	05/18/14 10:04	SNV	5551910
o-Xylene	ND			2		1	05/18/14 10:04	SNV	5551910
Xylenes,Total	ND			2		1	05/18/14 10:04	SNV	5551910
Surr 1,2-Dichloroethane-d4	98.6		%	84-124		1	05/18/14 10:04	SNV	5551910
Surr 4-Bromofluorobenzene	100		%	89-111		1	05/18/14 10:04	SNV	5551910
Surr: Toluene-d8	102		%	83-115		1	05/18/14 10:04	SNV	5551910

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

5/22/2014 3 42 41 PM

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID MW-PL-2 **Collected:** 05/12/2014 16:16 **Lab Sample ID:** L0042946-21

Site: **PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1**

Analyses/Method	Result	QUAL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP				**MCL**		**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND		0.022		1	05/17/14 6:50	DF	5556825
Surr. 1-Chloro-2-fluorobenzene	129		% 32-169		1	05/17/14 6:50	DF	5556825

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/14/2014 16:55	CNR	1 09

VOLATILE ORGANICS:METHOD 8260B				MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND		10		1	05/18/14 10:32	SNV	5551911
Diisopropyl ether	ND		5	150	1	05/18/14 10.32	SNV	5551911
Ethanol	ND		100	1000	1	05/18/14 10 32	SNV	5551911
t-Butyl alcohol	ND		10	1400	1	05/18/14 10:32	SNV	5551911
tert-Amyl alcohol	ND		10	240	1	05/18/14 10 32	SNV	5551911
tert-Amyl methyl ether	ND		5	128	1	05/18/14 10 32	SNV	5551911
tert-Butyl ethyl ether	ND		5	47	1	05/18/14 10 32	SNV	5551911
tert-Butyl formate	ND		1	100	1	05/18/14 10 32	SNV	5551911
1,2-Dichloroethane	ND		5		1	05/18/14 10.32	SNV	5551911
Benzene	ND		1		1	05/18/14 10:32	SNV	5551911
Ethylbenzene	ND		1		1	05/18/14 10:32	SNV	5551911
Methyl tert-butyl ether	17		1		1	05/18/14 10:32	SNV	5551911
Naphthalene	ND		5		1	05/18/14 10:32	SNV	5551911
Toluene	ND		1		1	05/18/14 10:32	SNV	5551911
m,p-Xylene	ND		2		1	05/18/14 10 32	SNV	5551911
o-Xylene	ND		2		1	05/18/14 10.32	SNV	5551911
Xylenes,Total	ND		2		1	05/18/14 10:32	SNV	5551911
Surr: 1,2-Dichloroethane-d4	102		% 84-124		1	05/18/14 10 32	SNV	5551911
Surr 4-Bromofluorobenzene	102		% 89-111		1	05/18/14 10:32	SNV	5551911
Surr Toluene-d8	104		% 83-115		1	05/18/14 10:32	SNV	5551911

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

5/22/2014 3 42 43 PM

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SCOTT, LA 70583
(337) 237-4775

Client Sample ID MW-PL-3 **Collected:** 05/12/2014 15 53 **Lab Sample ID:** L0042946-22

Site: **PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1**

Analyses/Method	Result	QUAL		Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP						**SW8011**	**Units: ug/L**		
1,2-Dibromoethane	ND			0.022		1	05/17/14 7:11	DF	5556826
Surr. 1-Chloro-2-fluorobenzene	126		%	32-169		1	05/17/14 7:11	DF	5556826

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/14/2014 16:55	CNR	1 10

VOLATILE ORGANICS:METHOD 8260B					MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND			10		1	05/19/14 20:31	NN	5553106
Diisopropyl ether	ND			5	150	1	05/19/14 20:31	NN	5553106
Ethanol	ND			100	1000	1	05/19/14 20:31	NN	5553106
t-Butyl alcohol	ND			10	1400	1	05/19/14 20.31	NN	5553106
tert-Amyl alcohol	ND			10	240	1	05/19/14 20 31	NN	5553106
tert-Amyl methyl ether	ND			5	128	1	05/19/14 20 31	NN	5553106
tert-Butyl ethyl ether	ND			5	47	1	05/19/14 20:31	NN	5553106
tert-Butyl formate	ND			1	100	1	05/19/14 20 31	NN	5553106
1,2-Dichloroethane	ND			5		1	05/19/14 20 31	NN	5553106
Benzene	ND			1		1	05/19/14 20:31	NN	5553106
Ethylbenzene	ND			1		1	05/19/14 20:31	NN	5553106
Methyl tert-butyl ether	ND			1		1	05/19/14 20:31	NN	5553106
Naphthalene	ND			5		1	05/19/14 20:31	NN	5553106
Toluene	ND			1		1	05/19/14 20.31	NN	5553106
m,p-Xylene	ND			2		1	05/19/14 20:31	NN	5553106
o-Xylene	ND			2		1	05/19/14 20:31	NN	5553106
Xylenes,Total	ND			2		1	05/19/14 20:31	NN	5553106
Surr: 1,2-Dichloroethane-d4	102		%	84-124		1	05/19/14 20:31	NN	5553106
Surr 4-Bromofluorobenzene	104		%	89-111		1	05/19/14 20:31	NN	5553106
Surr: Toluene-d8	99 2		%	83-115		1	05/19/14 20:31	NN	5553106

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

5/22/2014 3 42 45 PM

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500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID KMO-3 **Collected:** 05/12/2014 17:59 **Lab Sample ID:** L0042946-23

Site: **PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1**

Analyses/Method	Result	QUAL		Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP					**MCL**		**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND			0 022		1	05/17/14 7:32	DF	5556827
Surr 1-Chloro-2-fluorobenzene	140		%	32-169		1	05/17/14 7:32	DF	5556827

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/14/2014 16:55	CNR	1.09

VOLATILE ORGANICS:METHOD 8260B					MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND			10		1	05/20/14 15:20	NN	5555970
Diisopropyl ether	62			5	150	1	05/20/14 15:20	NN	5555970
Ethanol	ND			100	1000	1	05/20/14 15:20	NN	5555970
t-Butyl alcohol	160			10	1400	1	05/20/14 15:20	NN	5555970
tert-Amyl alcohol	35			10	240	1	05/20/14 15:20	NN	5555970
tert-Amyl methyl ether	5.4			5	128	1	05/20/14 15:20	NN	5555970
tert-Butyl ethyl ether	ND			5	47	1	05/20/14 15:20	NN	5555970
tert-Butyl formate	ND			1	100	1	05/20/14 15:20	NN	5555970
1,2-Dichloroethane	ND			5		1	05/20/14 15:20	NN	5555970
Benzene	80			1		1	05/20/14 15:20	NN	5555970
Ethylbenzene	13			1		1	05/20/14 15 20	NN	5555970
Methyl tert-butyl ether	74			1		1	05/20/14 15:20	NN	5555970
Naphthalene	12			5		1	05/20/14 15:20	NN	5555970
Toluene	1.5			1		1	05/20/14 15:20	NN	5555970
m,p-Xylene	8 6			2		1	05/20/14 15:20	NN	5555970
o-Xylene	3.7			2		1	05/20/14 15 20	NN	5555970
Xylenes,Total	12.3			2		1	05/20/14 15:20	NN	5555970
Surr. 1,2-Dichloroethane-d4	102		%	84-124		1	05/20/14 15:20	NN	5555970
Surr 4-Bromofluorobenzene	103		%	89-111		1	05/20/14 15:20	NN	5555970
Surr. Toluene-d8	99 7		%	83-115		1	05/20/14 15:20	NN	5555970

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

5/22/2014 3 42 48 PM

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500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID KMO-5 **Collected:** 05/12/2014 17:40 **Lab Sample ID:** L0042946-24

Site: **PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1**

Analyses/Method	Result	QUAL		Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP						**SW8011**	**Units: ug/L**		
1,2-Dibromoethane	ND			0 021		1	05/17/14 7:53	DF	5556828
Surr: 1-Chloro-2-fluorobenzene	160		%	32-169		1	05/17/14 7:53	DF	5556828

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/14/2014 16:55	CNR	1.06

VOLATILE ORGANICS:METHOD 8260B					MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND			10		1	05/20/14 15:48	NN	5555971
Diisopropyl ether	ND			5	150	1	05/20/14 15:48	NN	5555971
Ethanol	ND			100	1000	1	05/20/14 15:48	NN	5555971
t-Butyl alcohol	15			10	1400	1	05/20/14 15:48	NN	5555971
tert-Amyl alcohol	160			10	240	1	05/20/14 15:48	NN	5555971
tert-Amyl methyl ether	ND			5	128	1	05/20/14 15:48	NN	5555971
tert-Butyl ethyl ether	ND			5	47	1	05/20/14 15:48	NN	5555971
tert-Butyl formate	ND			1	100	1	05/20/14 15:48	NN	5555971
1,2-Dichloroethane	ND			5		1	05/20/14 15:48	NN	5555971
Benzene	1			1		1	05/20/14 15:48	NN	5555971
Ethylbenzene	ND			1		1	05/20/14 15:48	NN	5555971
Methyl tert-butyl ether	ND			1		1	05/20/14 15:48	NN	5555971
Naphthalene	ND			5		1	05/20/14 15:48	NN	5555971
Toluene	ND			1		1	05/20/14 15 48	NN	5555971
m,p-Xylene	ND			2		1	05/20/14 15 48	NN	5555971
o-Xylene	ND			2		1	05/20/14 15.48	NN	5555971
Xylenes,Total	ND			2		1	05/20/14 15:48	NN	5555971
Surr: 1,2-Dichloroethane-d4	101		%	84-124		1	05/20/14 15:48	NN	5555971
Surr: 4-Bromofluorobenzene	102		%	89-111		1	05/20/14 15:48	NN	5555971
Surr: Toluene-d8	98.1		%	83-115		1	05/20/14 15:48	NN	5555971

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

5/22/2014 3 42 50 PM

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID KMO-6 **Collected:** 05/12/2014 14:37 **Lab Sample ID:** L0042946-25

Site: **PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1**

Analyses/Method	Result	QUAL		Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP					**MCL**		**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND			0 021		1	05/17/14 8:36	DF	5556830
Surr 1-Chloro-2-fluorobenzene	163		%	32-169		1	05/17/14 8 36	DF	5556830

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/14/2014 16:55	CNR	1.06

VOLATILE ORGANICS:METHOD 8260B					MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND			10		1	05/19/14 13:33	NN	5553090
Diisopropyl ether	6.8			5	150	1	05/19/14 13:33	NN	5553090
Ethanol	ND			100	1000	1	05/19/14 13:33	NN	5553090
t-Butyl alcohol	29			10	1400	1	05/19/14 13:33	NN	5553090
tert-Amyl alcohol	32			10	240	1	05/19/14 13:33	NN	5553090
tert-Amyl methyl ether	ND			5	128	1	05/19/14 13:33	NN	5553090
tert-Butyl ethyl ether	ND			5	47	1	05/19/14 13:33	NN	5553090
tert-Butyl formate	ND			1	100	1	05/19/14 13:33	NN	5553090
1,2-Dichloroethane	ND			5		1	05/19/14 13:33	NN	5553090
Benzene	ND			1		1	05/19/14 13:33	NN	5553090
Ethylbenzene	ND			1		1	05/19/14 13 33	NN	5553090
Methyl tert-butyl ether	6.2			1		1	05/19/14 13:33	NN	5553090
Naphthalene	ND			5		1	05/19/14 13 33	NN	5553090
Toluene	ND			1		1	05/19/14 13:33	NN	5553090
m,p-Xylene	ND			2		1	05/19/14 13:33	NN	5553090
o-Xylene	ND			2		1	05/19/14 13:33	NN	5553090
Xylenes,Total	ND			2		1	05/19/14 13:33	NN	5553090
Surr: 1,2-Dichloroethane-d4	99 7		%	84-124		1	05/19/14 13:33	NN	5553090
Surr: 4-Bromofluorobenzene	103		%	89-111		1	05/19/14 13:33	NN	5553090
Surr: Toluene-d8	98.4		%	83-115		1	05/19/14 13:33	NN	5553090

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID KMO-10 **Collected:** 05/12/2014 15:36 **Lab Sample ID:** L0042946-26

Site: **PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1**

Analyses/Method	Result	QUAL		Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP					**MCL**		**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND			0.021		1	05/17/14 8:57	DF	5556831
Surr: 1-Chloro-2-fluorobenzene	96.0		%	32-169		1	05/17/14 8:57	DF	5556831

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/14/2014 16:55	CNR	1.07

VOLATILE ORGANICS:METHOD 8260B					MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND			10		1	05/19/14 14:01	NN	5553092
Diisopropyl ether	ND			5	150	1	05/19/14 14:01	NN	5553092
Ethanol	ND			100	1000	1	05/19/14 14:01	NN	5553092
t-Butyl alcohol	ND			10	1400	1	05/19/14 14:01	NN	5553092
tert-Amyl alcohol	ND			10	240	1	05/19/14 14:01	NN	5553092
tert-Amyl methyl ether	ND			5	128	1	05/19/14 14:01	NN	5553092
tert-Butyl ethyl ether	ND			5	47	1	05/19/14 14:01	NN	5553092
tert-Butyl formate	ND			1	100	1	05/19/14 14:01	NN	5553092
1,2-Dichloroethane	ND			5		1	05/19/14 14:01	NN	5553092
Benzene	ND			1		1	05/19/14 14:01	NN	5553092
Ethylbenzene	ND			1		1	05/19/14 14:01	NN	5553092
Methyl tert-butyl ether	ND			1		1	05/19/14 14:01	NN	5553092
Naphthalene	ND			5		1	05/19/14 14:01	NN	5553092
Toluene	ND			1		1	05/19/14 14:01	NN	5553092
m,p-Xylene	ND			2		1	05/19/14 14:01	NN	5553092
o-Xylene	ND			2		1	05/19/14 14:01	NN	5553092
Xylenes,Total	ND			2		1	05/19/14 14:01	NN	5553092
Surr: 1,2-Dichloroethane-d4	102		%	84-124		1	05/19/14 14:01	NN	5553092
Surr: 4-Bromofluorobenzene	99.7		%	89-111		1	05/19/14 14:01	NN	5553092
Surr: Toluene-d8	100		%	83-115		1	05/19/14 14:01	NN	5553092

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

5/22/2014 3:42:54 PM

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID KMO-11 **Collected:** 05/12/2014 14:53 **Lab Sample ID:** L0042946-27

Site: **PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1**

Analyses/Method	Result	QUAL		Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP				**MCL**	**SW8011**	**Units: ug/L**		
1,2-Dibromoethane	ND			0 023	1	05/17/14 9.18	DF	5556832
Surr. 1-Chloro-2-fluorobenzene	98.2		%	32-169	1	05/17/14 9:18	DF	5556832

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/14/2014 16 55	CNR	1.13

VOLATILE ORGANICS:METHOD 8260B				MCL	SW8260B	Units: ug/L		
3,3-Dimethyl-1-butanol	ND			10	1	05/19/14 14:29	NN	5553093
Diisopropyl ether	ND			5	150 1	05/19/14 14:29	NN	5553093
Ethanol	ND			100	1000 1	05/19/14 14:29	NN	5553093
t-Butyl alcohol	ND			10	1400 1	05/19/14 14:29	NN	5553093
tert-Amyl alcohol	11			10	240 1	05/19/14 14:29	NN	5553093
tert-Amyl methyl ether	ND			5	128 1	05/19/14 14:29	NN	5553093
tert-Butyl ethyl ether	ND			5	47 1	05/19/14 14:29	NN	5553093
tert-Butyl formate	ND			1	100 1	05/19/14 14:29	NN	5553093
1,2-Dichloroethane	ND			5	1	05/19/14 14:29	NN	5553093
Benzene	ND			1	1	05/19/14 14:29	NN	5553093
Ethylbenzene	ND			1	1	05/19/14 14:29	NN	5553093
Methyl tert-butyl ether	3			1	1	05/19/14 14:29	NN	5553093
Naphthalene	ND			5	1	05/19/14 14:29	NN	5553093
Toluene	ND			1	1	05/19/14 14 29	NN	5553093
m,p-Xylene	ND			2	1	05/19/14 14 29	NN	5553093
o-Xylene	ND			2	1	05/19/14 14 29	NN	5553093
Xylenes,Total	ND			2	1	05/19/14 14 29	NN	5553093
Surr. 1,2-Dichloroethane-d4	104		%	84-124	1	05/19/14 14 29	NN	5553093
Surr: 4-Bromofluorobenzene	98.5		%	89-111	1	05/19/14 14 29	NN	5553093
Surr: Toluene-d8	101		%	83-115	1	05/19/14 14:29	NN	5553093

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

5/22/2014 3 42 57 PM

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ACCUTEST LABORATORIES

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500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID KMO-12 **Collected:** 05/12/2014 15:24 **Lab Sample ID:** L0042946-28

Site: **PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1**

Analyses/Method	Result	QUAL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP				**MCL**		**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND		0.021		1	05/17/14 9:40	DF	5556833
Surr: 1-Chloro-2-fluorobenzene	92 3		% 32-169		1	05/17/14 9.40	DF	5556833

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/14/2014 16:55	CNR	1.06

VOLATILE ORGANICS:METHOD 8260B				MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND		10		1	05/19/14 14:57	NN	5553094
Diisopropyl ether	18		5	150	1	05/19/14 14:57	NN	5553094
Ethanol	ND		100	1000	1	05/19/14 14:57	NN	5553094
t-Butyl alcohol	130		10	1400	1	05/19/14 14.57	NN	5553094
tert-Amyl alcohol	170		10	240	1	05/19/14 14:57	NN	5553094
tert-Amyl methyl ether	ND		5	128	1	05/19/14 14:57	NN	5553094
tert-Butyl ethyl ether	ND		5	47	1	05/19/14 14:57	NN	5553094
tert-Butyl formate	ND		1	100	1	05/19/14 14:57	NN	5553094
1,2-Dichloroethane	ND		5		1	05/19/14 14:57	NN	5553094
Benzene	ND		1		1	05/19/14 14:57	NN	5553094
Ethylbenzene	ND		1		1	05/19/14 14:57	NN	5553094
Methyl tert-butyl ether	19		1		1	05/19/14 14:57	NN	5553094
Naphthalene	ND		5		1	05/19/14 14:57	NN	5553094
Toluene	ND		1		1	05/19/14 14:57	NN	5553094
m,p-Xylene	ND		2		1	05/19/14 14:57	NN	5553094
o-Xylene	ND		2		1	05/19/14 14:57	NN	5553094
Xylenes,Total	ND		2		1	05/19/14 14:57	NN	5553094
Surr. 1,2-Dichloroethane-d4	102		% 84-124		1	05/19/14 14:57	NN	5553094
Surr: 4-Bromofluorobenzene	100		% 89-111		1	05/19/14 14:57	NN	5553094
Surr: Toluene-d8	100		% 83-115		1	05/19/14 14:57	NN	5553094

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

5/22/2014 3 42 59 PM

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SCOTT, LA 70583
(337) 237-4775

Client Sample ID KMO-17 **Collected:** 05/12/2014 16:53 **Lab Sample ID:** L0042946-29

Site: **PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1**

Analyses/Method	Result	QUAL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP				**MCL**		**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND		0.021		1	05/17/14 10:01	DF	5556834
Surr. 1-Chloro-2-fluorobenzene	148		% 32-169		1	05/17/14 10 01	DF	5556834

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/14/2014 16:55	CNR	1.07

VOLATILE ORGANICS:METHOD 8260B				MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND		10		1	05/19/14 15 24	NN	5553096
Diisopropyl ether	ND		5	150	1	05/19/14 15:24	NN	5553096
Ethanol	ND		100	1000	1	05/19/14 15 24	NN	5553096
t-Butyl alcohol	ND		10	1400	1	05/19/14 15.24	NN	5553096
tert-Amyl alcohol	41		10	240	1	05/19/14 15.24	NN	5553096
tert-Amyl methyl ether	ND		5	128	1	05/19/14 15:24	NN	5553096
tert-Butyl ethyl ether	ND		5	47	1	05/19/14 15:24	NN	5553096
tert-Butyl formate	ND		1	100	1	05/19/14 15:24	NN	5553096
1,2-Dichloroethane	ND		5		1	05/19/14 15 24	NN	5553096
Benzene	13		1		1	05/19/14 15 24	NN	5553096
Ethylbenzene	80		1		1	05/19/14 15:24	NN	5553096
Methyl tert-butyl ether	ND		1		1	05/19/14 15:24	NN	5553096
Naphthalene	38		5		1	05/19/14 15 24	NN	5553096
Toluene	95		1		1	05/19/14 15:24	NN	5553096
m,p-Xylene	150		2		1	05/19/14 15:24	NN	5553096
o-Xylene	38		2		1	05/19/14 15:24	NN	5553096
Xylenes,Total	188		2		1	05/19/14 15:24	NN	5553096
Surr 1,2-Dichloroethane-d4	102		% 84-124		1	05/19/14 15:24	NN	5553096
Surr 4-Bromofluorobenzene	101		% 89-111		1	05/19/14 15:24	NN	5553096
Surr: Toluene-d8	100		% 83-115		1	05/19/14 15:24	NN	5553096

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

5/22/2014 3 43 02 PM

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SCOTT, LA 70583
(337) 237-4775

Client Sample ID KMO-18 **Collected:** 05/12/2014 17:10 **Lab Sample ID:** L0042946-30

Site: **PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1**

Analyses/Method	Result	QUAL		Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP						**SW8011**	**Units: ug/L**		
1,2-Dibromoethane	ND			0.021		1	05/17/14 10:22	DF	5556835
Surr: 1-Chloro-2-fluorobenzene	75.2		%	32-169		1	05/17/14 10:22	DF	5556835

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/14/2014 16:55	CNR	1.07

VOLATILE ORGANICS:METHOD 8260B					MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND			10		1	05/20/14 16:16	NN	5555972
Diisopropyl ether	ND			5	150	1	05/20/14 16:16	NN	5555972
Ethanol	ND			100	1000	1	05/20/14 16:16	NN	5555972
t-Butyl alcohol	ND			10	1400	1	05/20/14 16:16	NN	5555972
tert-Amyl alcohol	ND			10	240	1	05/20/14 16:16	NN	5555972
tert-Amyl methyl ether	ND			5	128	1	05/20/14 16:16	NN	5555972
tert-Butyl ethyl ether	ND			5	47	1	05/20/14 16:16	NN	5555972
tert-Butyl formate	ND			1	100	1	05/20/14 16:16	NN	5555972
1,2-Dichloroethane	ND			5		1	05/20/14 16:16	NN	5555972
Benzene	ND			1		1	05/20/14 16:16	NN	5555972
Ethylbenzene	ND			1		1	05/20/14 16:16	NN	5555972
Methyl tert-butyl ether	ND			1		1	05/20/14 16:16	NN	5555972
Naphthalene	ND			5		1	05/20/14 16:16	NN	5555972
Toluene	ND			1		1	05/20/14 16:16	NN	5555972
m,p-Xylene	ND			2		1	05/20/14 16:16	NN	5555972
o-Xylene	ND			2		1	05/20/14 16:16	NN	5555972
Xylenes,Total	ND			2		1	05/20/14 16:16	NN	5555972
Surr. 1,2-Dichloroethane-d4	99.0		%	84-124		1	05/20/14 16:16	NN	5555972
Surr: 4-Bromofluorobenzene	98.7		%	89-111		1	05/20/14 16:16	NN	5555972
Surr: Toluene-d8	101		%	83-115		1	05/20/14 16:16	NN	5555972

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

5/22/2014 3 43 10 PM

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SCOTT, LA 70583
(337) 237-4775

Client Sample ID DUP-1 **Collected:** 05/12/2014 15:17 **Lab Sample ID:** L0042946-31

Site: **PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1**

Analyses/Method	Result	QUAL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP				**MCL**		**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND		0 021		1	05/17/14 10:43	DF	5556836
Surr 1-Chloro-2-fluorobenzene	47 9		% 32-169		1	05/17/14 10:43	DF	5556836

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/14/2014 16:55	CNR	1.07

VOLATILE ORGANICS:METHOD 8260B				MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND		1000		100	05/20/14 16:44	NN	5555973
Diisopropyl ether	ND		500	150	100	05/20/14 16:44	NN	5555973
Ethanol	ND		10000	1000	100	05/20/14 16:44	NN	5555973
t-Butyl alcohol	ND		1000	1400	100	05/20/14 16 44	NN	5555973
tert-Amyl alcohol	**7300**	**>MCL**	**1000**	**240**	**100**	**05/20/14 16:44**	**NN**	**5555973**
tert-Amyl methyl ether	ND		500	128	100	05/20/14 16 44	NN	5555973
tert-Butyl ethyl ether	ND		500	47	100	05/20/14 16.44	NN	5555973
tert-Butyl formate	ND		100	100	100	05/20/14 16:44	NN	5555973
1,2-Dichloroethane	ND		500		100	05/20/14 16:44	NN	5555973
Benzene	6600		100		100	05/20/14 16:44	NN	5555973
Ethylbenzene	2200		100		100	05/20/14 16:44	NN	5555973
Methyl tert-butyl ether	ND		100		100	05/20/14 16:44	NN	5555973
Naphthalene	860		500		100	05/20/14 16:44	NN	5555973
Toluene	25000		100		100	05/20/14 16:44	NN	5555973
m,p-Xylene	8500		200		100	05/20/14 16:44	NN	5555973
o-Xylene	4000		200		100	05/20/14 16:44	NN	5555973
Xylenes,Total	12500		200		100	05/20/14 16:44	NN	5555973
Surr: 1,2-Dichloroethane-d4	102		% 84-124		100	05/20/14 16:44	NN	5555973
Surr: 4-Bromofluorobenzene	100		% 89-111		100	05/20/14 16:44	NN	5555973
Surr: Toluene-d8	99.3		% 83-115		100	05/20/14 16:44	NN	5555973

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

5/22/2014 3 43 14 PM

ACCUTEST LABORATORIES

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500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID DUP-2 **Collected:** 05/13/2014 11:58 **Lab Sample ID:** L0042946-32

Site: **PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1**

Analyses/Method	Result	QUAL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP				**MCL**		**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND		0.021		1	05/17/14 11:04	DF	5556837
Surr 1-Chloro-2-fluorobenzene	111		% 32-169		1	05/17/14 11 04	DF	5556837

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/14/2014 16.55	CNR	1 06

VOLATILE ORGANICS:METHOD 8260B				MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND		1000		100	05/19/14 18.12	NN	5553104
Diisopropyl ether	**2400**	**>MCL**	**500**	**150**	**100**	**05/19/14 18:12**	**NN**	**5553104**
Ethanol	ND		10000	1000	100	05/19/14 18:12	NN	5553104
t-Butyl alcohol	**12000**	**>MCL**	**1000**	**1400**	**100**	**05/19/14 18:12**	**NN**	**5553104**
tert-Amyl alcohol	**58000**	**>MCL**	**1000**	**240**	**100**	**05/19/14 18:12**	**NN**	**5553104**
tert-Amyl methyl ether	ND		500	128	100	05/19/14 18:12	NN	5553104
tert-Butyl ethyl ether	ND		500	47	100	05/19/14 18:12	NN	5553104
tert-Butyl formate	ND		100	100	100	05/19/14 18.12	NN	5553104
1,2-Dichloroethane	ND		500		100	05/19/14 18:12	NN	5553104
Benzene	21000		100		100	05/19/14 18.12	NN	5553104
Ethylbenzene	1800		100		100	05/19/14 18 12	NN	5553104
Methyl tert-butyl ether	13000		100		100	05/19/14 18:12	NN	5553104
Naphthalene	520		500		100	05/19/14 18:12	NN	5553104
Toluene	19000		100		100	05/19/14 18:12	NN	5553104
m,p-Xylene	4900		200		100	05/19/14 18:12	NN	5553104
o-Xylene	2500		200		100	05/19/14 18 12	NN	5553104
Xylenes,Total	7400		200		100	05/19/14 18:12	NN	5553104
Surr: 1,2-Dichloroethane-d4	108		% 84-124		100	05/19/14 18:12	NN	5553104
Surr: 4-Bromofluorobenzene	101		% 89-111		100	05/19/14 18.12	NN	5553104
Surr: Toluene-d8	100		% 83-115		100	05/19/14 18 12	NN	5553104

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

5/22/2014 3 43 16 PM

ACCUTEST LABORATORIES

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500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID FIELD BLANK 1 **Collected:** 05/12/2014 15:30 **Lab Sample ID:** L0042946-33

Site: **PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1**

Analyses/Method	Result	QUAL		Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP					**MCL**		**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND			0.021		1	05/17/14 11 26	DF	5556838
Surr: 1-Chloro-2-fluorobenzene	97.1		%	32-169		1	05/17/14 11 26	DF	5556838

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/14/2014 16:55	CNR	1.07

VOLATILE ORGANICS:METHOD 8260B					MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND			10		1	05/19/14 13:05	NN	5553088
Diisopropyl ether	ND			5	150	1	05/19/14 13:05	NN	5553088
Ethanol	ND			100	1000	1	05/19/14 13.05	NN	5553088
t-Butyl alcohol	ND			10	1400	1	05/19/14 13:05	NN	5553088
tert-Amyl alcohol	ND			10	240	1	05/19/14 13:05	NN	5553088
tert-Amyl methyl ether	ND			5	128	1	05/19/14 13:05	NN	5553088
tert-Butyl ethyl ether	ND			5	47	1	05/19/14 13 05	NN	5553088
tert-Butyl formate	ND			1	100	1	05/19/14 13.05	NN	5553088
1,2-Dichloroethane	ND			5		1	05/19/14 13.05	NN	5553088
Benzene	ND			1		1	05/19/14 13:05	NN	5553088
Ethylbenzene	ND			1		1	05/19/14 13:05	NN	5553088
Methyl tert-butyl ether	ND			1		1	05/19/14 13:05	NN	5553088
Naphthalene	ND			5		1	05/19/14 13:05	NN	5553088
Toluene	ND			1		1	05/19/14 13:05	NN	5553088
m,p-Xylene	ND			2		1	05/19/14 13:05	NN	5553088
o-Xylene	ND			2		1	05/19/14 13:05	NN	5553088
Xylenes,Total	ND			2		1	05/19/14 13:05	NN	5553088
Surr: 1,2-Dichloroethane-d4	95.5		%	84-124		1	05/19/14 13:05	NN	5553088
Surr 4-Bromofluorobenzene	101		%	89-111		1	05/19/14 13 05	NN	5553088
Surr Toluene-d8	102		%	83-115		1	05/19/14 13 05	NN	5553088

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

5/22/2014 3 43 18 PM

Version 2.2 - Modified January 16, 2012

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500 AMBASSADOR CAFFERY PARKWAY
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(337) 237-4775

Client Sample ID FIELD BLANK 2 **Collected:** 05/13/2014 12 45 **Lab Sample ID:** L0042946-34

Site: **PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1**

Analyses/Method	Result	QUAL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP				**MCL**		**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND		0.021		1	05/17/14 11:47	DF	5556839
Surr: 1-Chloro-2-fluorobenzene	131		% 32-169		1	05/17/14 11 47	DF	5556839

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	05/14/2014 16:55	CNR	1.04

VOLATILE ORGANICS:METHOD 8260B				MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND		10		1	05/17/14 5:23	NN	5550613
Diisopropyl ether	ND		5	150	1	05/17/14 5:23	NN	5550613
Ethanol	ND		100	1000	1	05/17/14 5:23	NN	5550613
t-Butyl alcohol	ND		10	1400	1	05/17/14 5:23	NN	5550613
tert-Amyl alcohol	ND		10	240	1	05/17/14 5:23	NN	5550613
tert-Amyl methyl ether	ND		5	128	1	05/17/14 5:23	NN	5550613
tert-Butyl ethyl ether	ND		5	47	1	05/17/14 5:23	NN	5550613
tert-Butyl formate	ND		1	100	1	05/17/14 5:23	NN	5550613
1,2-Dichloroethane	ND		5		1	05/17/14 5:23	NN	5550613
Benzene	ND		1		1	05/17/14 5:23	NN	5550613
Ethylbenzene	ND		1		1	05/17/14 5:23	NN	5550613
Methyl tert-butyl ether	ND		1		1	05/17/14 5:23	NN	5550613
Naphthalene	ND		5		1	05/17/14 5:23	NN	5550613
Toluene	ND		1		1	05/17/14 5.23	NN	5550613
m,p-Xylene	ND		2		1	05/17/14 5 23	NN	5550613
o-Xylene	ND		2		1	05/17/14 5.23	NN	5550613
Xylenes,Total	ND		2		1	05/17/14 5:23	NN	5550613
Surr 1,2-Dichloroethane-d4	97.2		% 84-124		1	05/17/14 5:23	NN	5550613
Surr: 4-Bromofluorobenzene	98 7		% 89-111		1	05/17/14 5:23	NN	5550613
Surr: Toluene-d8	98 4		% 83-115		1	05/17/14 5:23	NN	5550613

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

5/22/2014 3 43 20 PM

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID TRIP BLANK **Collected:** 05/12/2014 8 00 **Lab Sample ID:** L0042946-35

Site: **PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1**

Analyses/Method	Result	QUAL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**		
3,3-Dimethyl-1-butanol	ND		10		1	05/17/14 3:58	NN	5550610
Diisopropyl ether	ND		5	150	1	05/17/14 3 58	NN	5550610
Ethanol	ND		100	1000	1	05/17/14 3 58	NN	5550610
t-Butyl alcohol	ND		10	1400	1	05/17/14 3:58	NN	5550610
tert-Amyl alcohol	ND		10	240	1	05/17/14 3:58	NN	5550610
tert-Amyl methyl ether	ND		5	128	1	05/17/14 3:58	NN	5550610
tert-Butyl ethyl ether	ND		5	47	1	05/17/14 3:58	NN	5550610
tert-Butyl formate	ND		1	100	1	05/17/14 3 58	NN	5550610
1,2-Dichloroethane	ND		5		1	05/17/14 3 58	NN	5550610
Benzene	ND		1		1	05/17/14 3:58	NN	5550610
Ethylbenzene	ND		1		1	05/17/14 3.58	NN	5550610
Methyl tert-butyl ether	ND		1		1	05/17/14 3:58	NN	5550610
Naphthalene	ND		5		1	05/17/14 3:58	NN	5550610
Toluene	ND		1		1	05/17/14 3:58	NN	5550610
m,p-Xylene	ND		2		1	05/17/14 3:58	NN	5550610
o-Xylene	ND		2		1	05/17/14 3:58	NN	5550610
Xylenes,Total	ND		2		1	05/17/14 3 58	NN	5550610
Surr: 1,2-Dichloroethane-d4	95 4	%	84-124		1	05/17/14 3.58	NN	5550610
Surr. 4-Bromofluorobenzene	101	%	89-111		1	05/17/14 3:58	NN	5550610
Surr: Toluene-d8	97.9	%	83-115		1	05/17/14 3:58	NN	5550610

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

5/22/2014 3 43 22 PM

Version 2 2 - Modified January 16, 2012

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID TRIP BLANK **Collected:** 05/12/2014 8:02 **Lab Sample ID:** L0042946-36

Site: **PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1**

Analyses/Method	Result	QUAL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**		
3,3-Dimethyl-1-butanol	ND		10		1	05/17/14 4 26	NN	5550611
Diisopropyl ether	ND		5	150	1	05/17/14 4 26	NN	5550611
Ethanol	ND		100	1000	1	05/17/14 4 26	NN	5550611
t-Butyl alcohol	ND		10	1400	1	05/17/14 4:26	NN	5550611
tert-Amyl alcohol	ND		10	240	1	05/17/14 4:26	NN	5550611
tert-Amyl methyl ether	ND		5	128	1	05/17/14 4:26	NN	5550611
tert-Butyl ethyl ether	ND		5	47	1	05/17/14 4:26	NN	5550611
tert-Butyl formate	ND		1	100	1	05/17/14 4 26	NN	5550611
1,2-Dichloroethane	ND		5		1	05/17/14 4 26	NN	5550611
Benzene	ND		1		1	05/17/14 4:26	NN	5550611
Ethylbenzene	ND		1		1	05/17/14 4 26	NN	5550611
Methyl tert-butyl ether	ND		1		1	05/17/14 4:26	NN	5550611
Naphthalene	ND		5		1	05/17/14 4:26	NN	5550611
Toluene	ND		1		1	05/17/14 4 26	NN	5550611
m,p-Xylene	ND		2		1	05/17/14 4 26	NN	5550611
o-Xylene	ND		2		1	05/17/14 4 26	NN	5550611
Xylenes,Total	ND		2		1	05/17/14 4:26	NN	5550611
Surr 1,2-Dichloroethane-d4	98.0	%	84-124		1	05/17/14 4:26	NN	5550611
Surr: 4-Bromofluorobenzene	99.5	%	89-111		1	05/17/14 4:26	NN	5550611
Surr. Toluene-d8	96.4	%	83-115		1	05/17/14 4:26	NN	5550611

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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ACCUTEST LABORATORIES

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500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID TRIP BLANK **Collected:** 05/12/2014 8 04 **Lab Sample ID:** L0042946-37

Site: **PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1**

Analyses/Method	Result	QUAL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**		
3,3-Dimethyl-1-butanol	ND		10		1	05/17/14 4:55	NN	5550612
Diisopropyl ether	ND		5	150	1	05/17/14 4:55	NN	5550612
Ethanol	ND		100	1000	1	05/17/14 4:55	NN	5550612
t-Butyl alcohol	ND		10	1400	1	05/17/14 4:55	NN	5550612
tert-Amyl alcohol	ND		10	240	1	05/17/14 4:55	NN	5550612
tert-Amyl methyl ether	ND		5	128	1	05/17/14 4:55	NN	5550612
tert-Butyl ethyl ether	ND		5	47	1	05/17/14 4:55	NN	5550612
tert-Butyl formate	ND		1	100	1	05/17/14 4:55	NN	5550612
1,2-Dichloroethane	ND		5		1	05/17/14 4:55	NN	5550612
Benzene	ND		1		1	05/17/14 4:55	NN	5550612
Ethylbenzene	ND		1		1	05/17/14 4:55	NN	5550612
Methyl tert-butyl ether	ND		1		1	05/17/14 4:55	NN	5550612
Naphthalene	ND		5		1	05/17/14 4:55	NN	5550612
Toluene	ND		1		1	05/17/14 4:55	NN	5550612
m,p-Xylene	ND		2		1	05/17/14 4:55	NN	5550612
o-Xylene	ND		2		1	05/17/14 4:55	NN	5550612
Xylenes,Total	ND		2		1	05/17/14 4:55	NN	5550612
Surr. 1,2-Dichloroethane-d4	97.2	%	84-124		1	05/17/14 4:55	NN	5550612
Surr. 4-Bromofluorobenzene	99.3	%	89-111		1	05/17/14 4:55	NN	5550612
Surr Toluene-d8	98.3	%	83-115		1	05/17/14 4:55	NN	5550612

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

5/22/2014 3 43 24 PM

Quality Control Documentation

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

CARDNO ATC

ANDERSON, SC

Analysis: EDB & DBCP
Method: SW8011

WorkOrder: L0042946
Lab Batch ID: 131777

Method Blank

RunID: PCBB_140516A-5557214 Units: ug/L
Analysis Date: 05/16/2014 20 54 Analyst: DF
Preparation Date: 05/14/2014 16:52 Prep By: CNR Method E504

Analyte	Result	Rep Limit
1,2-Dibromoethane	ND	0 020
Surr 1-Chloro-2-fluorobenzene	125 5	32-169

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
L0042946-01B	MW-2
L0042946-02B	MW-3
L0042946-04B	MW-7
L0042946-05B	MW-12
L0042946-06B	MW-13
L0042946-07B	MW-14
L0042946-08B	MW-15
L0042946-09B	MW-16
L0042946-10B	MW-17
L0042946-11B	MW-25
L0042946-12B	MW-26
L0042946-13B	MW-27
L0042946-14B	DMW-2
L0042946-15B	DMW-3
L0042946-16B	MW-18D
L0042946-17B	MW-19D
L0042946-18B	MW-20D
L0042946-19B	MW-21D
L0042946-20B	MW-PL-1

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: PCBB_140516A-5557262 Units: ug/L
Analysis Date: 05/21/2014 22 44 Analyst: DF
Preparation Date 05/14/2014 16 52 Prep By: CNR Method E504

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1,2-Dibromoethane	0.570	0.621	109	0.570	0.717	126	14 3	30	60	140
Surr: 1-Chloro-2-fluorobenzene	143	132	92.2	143	168	117	23.8	30	32	169

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules

5/22/2014 3 44 00 PM

Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

CARDNO ATC

ANDERSON, SC

Analysis: EDB & DBCP
Method: SW8011

WorkOrder: L0042946
Lab Batch ID: 131778

Method Blank

RunID PCBB_140517A-5556819 Units: ug/L
Analysis Date: 05/17/2014 4:42 Analyst: DF
Preparation Date. 05/14/2014 16:55 Prep By: CNR Method E504

Analyte	Result	Rep Limit
1,2-Dibromoethane	ND	0 020
Surr 1-Chloro-2-fluorobenzene	128 2	32-169

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
L0042946-21B	MW-PL-2
L0042946-22B	MW-PL-3
L0042946-23B	KMO-3
L0042946-24B	KMO-5
L0042946-25B	KMO-6
L0042946-26B	KMO-10
L0042946-27B	KMO-11
L0042946-28B	KMO-12
L0042946-29B	KMO-17
L0042946-30B	KMO-18
L0042946-31B	DUP-1
L0042946-32B	DUP-2
L0042946-33B	FIELD BLANK 1
L0042946-34B	FIELD BLANK 2

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: PCBB_140517A-5556820 Units: ug/L
Analysis Date: 05/17/2014 5:03 Analyst. DF
Preparation Date. 05/14/2014 16.55 Prep By· CNR Method E504

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1,2-Dibromoethane	0.570	0.782	137	0 570	0.790	139	1 0	30	60	140
Surr: 1-Chloro-2-fluorobenzene	143	206	144	143	232	162	11 8	30	32	169

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added Control limits do not apply
TNTC - Too numerous to count
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules

5/22/2014 3 44 05 PM

Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

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500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

CARDNO ATC

ANDERSON, SC

Analysis: EDB & DBCP
Method: SW8011

WorkOrder: L0042946
Lab Batch ID: 131909

Method Blank

RunID. PCBB_140521A-5558091 Units. ug/L
Analysis Date: 05/21/2014 22 23 Analyst: DF
Preparation Date: 05/19/2014 18 03 Prep By. CNR Method E504

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
L0042946-03B	MW-4

Analyte	Result	Rep Limit
1,2-Dibromoethane	ND	0 020
Surr 1-Chloro-2-fluorobenzene	116 9	32-169

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID. PCBB_140521A-5558092 Units: ug/L
Analysis Date: 05/21/2014 23:27 Analyst. DF
Preparation Date 05/19/2014 18.03 Prep By: CNR Method E504

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1,2-Dibromoethane	0.570	0.761	134	0 570	0.606	106	22 6	30	60	140
Surr: 1-Chloro-2-fluorobenzene	143	158	111	143	123	86 0	25.2	30	32	169

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

5/22/2014 3 44 07 PM

Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

CARDNO ATC

ANDERSON, SC

Analysis: Volatile Organics:Method 8260B
Method: SW8260B

WorkOrder: L0042946
Lab Batch ID: R334268

Method Blank

RunID: GCMS1X_140516E-5550608 Units: ug/L
Analysis Date 05/17/2014 2 06 Analyst: NN

Analyte	Result	Rep Limit
1,2-Dichloroethane	ND	5 0
3,3-Dimethyl-1-butanol	ND	10
Benzene	ND	1 0
Diisopropyl ether	ND	5 0
Ethanol	ND	100
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	1 0
Naphthalene	ND	5 0
t-Butyl alcohol	ND	10
tert-Amyl alcohol	ND	10
tert-Amyl methyl ether	ND	5 0
tert-Butyl ethyl ether	ND	5 0
tert-Butyl formate	ND	1 0
Toluene	ND	1.0
m,p-Xylene	ND	2 0
o-Xylene	ND	2 0
Xylenes,Total	ND	2 0
Surr 1,2-Dichloroethane-d4	95 5	84-124
Surr. 4-Bromofluorobenzene	98 5	89-111
Surr Toluene-d8	95 9	83-115

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
L0042946-34A	FIELD BLANK 2
L0042946-35A	TRIP BLANK
L0042946-36A	TRIP BLANK
L0042946-37A	TRIP BLANK

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: GCMS1X_140516E-555060 Units: ug/L
Analysis Date 05/17/2014 1:10 Analyst. NN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1,2-Dichloroethane	20.0	20.3	101	20 0	18.6	93.0	8.6	10	74	127
3,3-Dimethyl-1-butanol	200	185	92.4	200	199	99.4	7.3	37	26	173
Benzene	20.0	20.8	104	20.0	18.6	93.1	11 2 *	10	82	119
Diisopropyl ether	20.0	18.4	92.2	20.0	18 3	91.3	0.9	10	71	126
Ethanol	400	440	110	400	386	96.4	13.2	77	43	177

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added Control limits do not apply
TNTC - Too numerous to count
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

5/22/2014 3 44 10 PM

Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

CARDNO ATC

ANDERSON, SC

Analysis: **Volatile Organics:Method 8260B** **WorkOrder:** **L0042946**
Method: **SW8260B** **Lab Batch ID:** **R334268**

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: GCMS1X_140516E-555060 Units: ug/L
Analysis Date. 05/17/2014 1 10 Analyst NN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Ethylbenzene	20.0	20.6	103	20.0	18.9	94.6	8.5	10	84	117
Methyl tert-butyl ether	20 0	18.7	93 6	20.0	18.4	91.9	1 8	58	75	126
Naphthalene	20 0	21.2	106	20 0	19.0	95.1	10.6	22	74	136
t-Butyl alcohol	200	183	91.4	200	192	96.0	4 9	96	1	201
tert-Amyl alcohol	200	190	94.8	200	190	94.9	0 1	35	55	151
tert-Amyl methyl ether	20 0	19.7	98.7	20.0	18.3	91.6	7.4	11	80	121
tert-Butyl ethyl ether	20.0	18.5	92.3	20.0	17.8	89.2	3.5	10	77	123
tert-Butyl formate	20 0	18.3	91.3	20.0	18.3	91.6	0.3	14	49	150
Toluene	20 0	20.8	104	20.0	19.3	96.5	7.4	10	80	121
m,p-Xylene	40.0	40.5	101	40.0	39 2	98.0	3.3	10	82	121
o-Xylene	20.0	19.8	99.1	20.0	18 9	94.3	5.0	10	84	119
Xylenes,Total	60 0	60.3	101	60 0	58.1	96 8	3.8	10	81	122
Surr 1,2-Dichloroethane-d4	50.0	47.3	94.6	50.0	49 1	98.1	3.7	30	84	124
Surr. 4-Bromofluorobenzene	50.0	50.3	101	50 0	51 4	103	2.2	30	89	111
Surr: Toluene-d8	50 0	50.5	101	50 0	49.3	98 6	2.5	30	83	115

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

5/22/2014 3 44 10 PM

Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

CARDNO ATC

ANDERSON, SC

Analysis: Volatile Organics:Method 8260B
Method: SW8260B

WorkOrder: L0042946
Lab Batch ID: R334325

Method Blank

RunID: GCMS1X_140517D-5551896 Units: ug/L
Analysis Date: 05/18/2014 3 34 Analyst: SNV

Analyte	Result	Rep Limit
1,2-Dichloroethane	ND	5 0
3,3-Dimethyl-1-butanol	ND	10
Benzene	ND	1 0
Diisopropyl ether	ND	5 0
Ethanol	ND	100
Ethylbenzene	ND	1 0
Methyl tert-butyl ether	ND	1 0
Naphthalene	ND	5 0
t-Butyl alcohol	ND	10
tert-Amyl alcohol	ND	10
tert-Amyl methyl ether	ND	5 0
tert-Butyl ethyl ether	ND	5 0
tert-Butyl formate	ND	1 0
Toluene	ND	1 0
m,p-Xylene	ND	2 0
o-Xylene	ND	2 0
Xylenes,Total	ND	2 0
Surr 1,2-Dichloroethane-d4	98 0	84-124
Surr 4-Bromofluorobenzene	99 7	89-111
Surr Toluene-d8	97 1	83-115

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
L0042946-07A	MW-14
L0042946-08A	MW-15
L0042946-09A	MW-16
L0042946-10A	MW-17
L0042946-11A	MW-25
L0042946-12A	MW-26
L0042946-13A	MW-27
L0042946-14A	DMW-2
L0042946-15A	DMW-3
L0042946-16A	MW-18D
L0042946-17A	MW-19D
L0042946-18A	MW-20D
L0042946-19A	MW-21D
L0042946-20A	MW-PL-1
L0042946-21A	MW-PL-2

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID. GCMS1X_140517D-555189 Units: ug/L
Analysis Date 05/18/2014 2:38 Analyst: SNV

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1,2-Dichloroethane	20.0	19.8	98.9	20.0	19.0	95 0	4.0	10	74	127
3,3-Dimethyl-1-butanol	200	234	117	200	221	110	6.0	30	70	130
Benzene	20.0	20.3	102	20.0	20 7	104	1 9	10	82	119
Diisopropyl ether	20 0	21.8	109	20 0	21.3	106	2.4	10	71	126
Ethanol	400	394	98.5	400	365	91.4	7.5	30	70	130

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

CARDNO ATC

ANDERSON, SC

Analysis: Volatile Organics:Method 8260B **WorkOrder:** L0042946
Method: SW8260B **Lab Batch ID:** R334325

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID. GCMS1X_140517D-555189 Units: ug/L
Analysis Date: 05/18/2014 2:38 Analyst: SNV

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Ethylbenzene	20.0	19.7	98.7	20.0	20.0	100	1.4	10	84	117
Methyl tert-butyl ether	20.0	20 8	104	20 0	21.0	105	0 8	30	75	126
Naphthalene	20.0	21.4	107	20.0	19.8	99.2	7.7	22	74	130
t-Butyl alcohol	200	182	91 1	200	176	88 0	3.4	30	70	130
tert-Amyl alcohol	200	185	92 4	200	169	84.4	9 0	30	70	130
tert-Amyl methyl ether	20.0	20.8	104	20 0	19.4	97.0	6 9	11	80	121
tert-Butyl ethyl ether	20.0	21.0	105	20 0	21.4	107	1.8	10	77	123
tert-Butyl formate	20.0	20.2	101	20.0	19.6	98.0	3.1	14	70	130
Toluene	20.0	20.5	102	20.0	20.5	103	0.2	10	80	121
m,p-Xylene	40.0	40.7	102	40.0	39.6	99 1	2.6	10	82	121
o-Xylene	20 0	19.4	96.9	20 0	20.0	99 9	3 0	10	84	119
Xylenes,Total	60 0	60 1	100	60 0	59.6	99.3	0 8	9	81	122
Surr: 1,2-Dichloroethane-d4	50 0	50 6	101	50 0	48.6	97.2	4 1	30	84	124
Surr: 4-Bromofluorobenzene	50 0	51 3	103	50.0	50 1	100	2.3	30	89	111
Surr: Toluene-d8	50 0	49 7	99.3	50.0	48 0	96.0	3.4	30	83	115

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked. L0042946-25
RunID. GCMS1X_140517D-555191 Units: ug/L
Analysis Date: 05/18/2014 11:27 Analyst: SNV

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
1,2-Dichloroethane	ND	200	187	93 5	200	193	96.5	3.10	10	74	127
3,3-Dimethyl-1-butanol	ND	2000	2030	101	2000	2010	101	0.668	37	70	130

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

CARDNO ATC

ANDERSON, SC

Analysis: **Volatile Organics:Method 8260B** **WorkOrder:** **L0042946**
Method: **SW8260B** **Lab Batch ID:** **R334325**

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: L0042946-25
RunID. GCMS1X_140517D-555191 Units: ug/L
Analysis Date. 05/18/2014 11:27 Analyst: SNV

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	200	201	100	200	203	102	1.31	10	82	119
Diisopropyl ether	ND	200	224	112	200	225	113	0 653	10	71	126
Ethanol	ND	4000	3120	78.0	4000	3670	91.8	16 2	40	70	130
Ethylbenzene	ND	200	194	97.2	200	196	97.9	0.787	10	84	117
Methyl tert-butyl ether	ND	200	213	107	200	222	111	4.04	40	75	126
Naphthalene	ND	200	176	88.2	200	189	94 6	7.03	22	74	130
t-Butyl alcohol	ND	2000	1760	88.2	2000	1870	93 4	5.82	40	70	130
tert-Amyl alcohol	ND	2000	1680	84.1	2000	1740	87 0	3.31	35	70	130
tert-Amyl methyl ether	ND	200	197	98.5	200	196	98 2	0.333	11	80	121
tert-Butyl ethyl ether	ND	200	211	105	200	218	109	3.36	10	77	123
tert-Butyl formate	ND	200	0	0 *	200	0	0 *	0	14	70	130
Toluene	ND	200	198	99 0	200	195	97.7	1.29	10	80	121
m,p-Xylene	ND	400	388	97.1	400	385	96.2	0.915	10	82	121
o-Xylene	ND	200	201	100	200	191	95 4	4 97	10	84	119
Xylenes,Total	ND	600	589	98.2	600	576	95 9	2.28	9	81	122
Surr 1,2-Dichloroethane-d4	ND	500	503	101	500	515	103	2.31	30	84	124
Surr 4-Bromofluorobenzene	ND	500	529	106	500	512	102	3.19	30	89	111
Surr. Toluene-d8	ND	500	503	101	500	499	99.9	0.670	30	83	115

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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500 AMBASSADOR CAFFERY PARKWAY
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(337) 237-4775

Quality Control Report

CARDNO ATC

ANDERSON, SC

Analysis: Volatile Organics:Method 8260B
Method: SW8260B

WorkOrder: L0042946
Lab Batch ID: R334330

Method Blank

RunID. GCMS1X_140517I-5551978 Units: ug/L
Analysis Date 05/18/2014 3 48 Analyst: SNV

Analyte	Result	Rep Limit
1,2-Dichloroethane	ND	5 0
3,3-Dimethyl-1-butanol	ND	10
Benzene	ND	1 0
Diisopropyl ether	ND	5 0
Ethanol	ND	100
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	1 0
Naphthalene	ND	5 0
t-Butyl alcohol	ND	10
tert-Amyl alcohol	ND	10
tert-Amyl methyl ether	ND	5 0
tert-Butyl ethyl ether	ND	5 0
tert-Butyl formate	ND	1 0
Toluene	ND	1 0
m,p-Xylene	ND	2 0
o-Xylene	ND	2 0
Xylenes,Total	ND	2 0
Surr 1,2-Dichloroethane-d4	97 9	84-124
Surr 4-Bromofluorobenzene	98 2	89-111
Surr Toluene-d8	99 8	83-115

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
L0042946-01A	MW-2
L0042946-02A	MW-3
L0042946-03A	MW-4
L0042946-04A	MW-7
L0042946-06A	MW-13

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: GCMS1X_140517I-5551976 Units: ug/L
Analysis Date: 05/18/2014 2:52 Analyst: SNV

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1,2-Dichloroethane	20 0	21.1	105	20.0	20.2	101	4.0	10	74	127
3,3-Dimethyl-1-butanol	200	228	114	200	259	130	12.6	30	70	130
Benzene	20 0	21.9	109	20.0	21.0	105	4.1	10	82	119
Diisopropyl ether	20.0	21.7	108	20.0	22.2	111	2 3	10	71	126
Ethanol	400	415	104	400	514	128	21.2	30	70	130

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Version 2.1 - Modified February 11, 2011

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500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

CARDNO ATC

ANDERSON, SC

Analysis: Volatile Organics:Method 8260B **WorkOrder:** L0042946
Method: SW8260B **Lab Batch ID:** R334330

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID GCMS1X_140517I-5551976 Units: ug/L
Analysis Date: 05/18/2014 2:52 Analyst SNV

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Ethylbenzene	20.0	20.5	103	20 0	20.5	103	0.1	10	84	117
Methyl tert-butyl ether	20.0	21.7	108	20 0	22 0	110	1.4	30	75	126
Naphthalene	20.0	21.6	108	20 0	20.4	102	6.0	22	74	130
t-Butyl alcohol	200	202	101	200	234	117	15.0	30	70	130
tert-Amyl alcohol	200	195	97.4	200	230	115	16.7	30	70	130
tert-Amyl methyl ether	20.0	20.6	103	20.0	20.4	102	1.0	11	80	121
tert-Butyl ethyl ether	20.0	21.9	109	20.0	21.4	107	2.3	10	77	123
tert-Butyl formate	20.0	21 4	107	20.0	21.7	108	1.1	14	70	130
Toluene	20 0	21 0	105	20.0	20.6	103	2.0	10	80	121
m,p-Xylene	40.0	41.6	104	40.0	41.7	104	0.3	10	82	121
o-Xylene	20.0	20.5	103	20 0	19.6	97.8	4 9	10	84	119
Xylenes,Total	60 0	62.1	104	60.0	61.3	102	1.4	9	81	122
Surr. 1,2-Dichloroethane-d4	50.0	50.3	101	50 0	50.7	101	0 8	30	84	124
Surr: 4-Bromofluorobenzene	50.0	50.4	101	50.0	50.5	101	0.3	30	89	111
Surr Toluene-d8	50 0	51.9	104	50.0	51 2	102	1.5	30	83	115

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: L0042901-06
RunID GCMS1X_140517I-5551985 Units: ug/L
Analysis Date 05/18/2014 11:41 Analyst: SNV

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
1,2-Dichloroethane	ND	200	207	103	200	205	102	0.893	10	74	127
3,3-Dimethyl-1-butanol	ND	2000	2120	106	2000	1990	99.3	6.36	37	70	130

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Version 2.1 - Modified February 11, 2011

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500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

CARDNO ATC

ANDERSON, SC

Analysis: **Volatile Organics:Method 8260B** **WorkOrder:** **L0042946**
Method: **SW8260B** **Lab Batch ID:** **R334330**

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: L0042901-06
RunID: GCMS1X_140517I-5551985 Units: ug/L
Analysis Date: 05/18/2014 11:41 Analyst: SNV

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	990	200	1230	N/C	200	1220	N/C	N/C	10	82	119
Diisopropyl ether	ND	200	240	120	200	240	120	0 318	10	71	126
Ethanol	ND	4000	5030	126	4000	5530	138 *	9.37	40	70	130
Ethylbenzene	1550	200	1730	N/C	200	1790	N/C	N/C	10	84	117
Methyl tert-butyl ether	ND	200	238	109	200	244	112	2.35	40	75	126
Naphthalene	507	200	682	87 8	200	688	90.6	0.826	22	74	130
t-Butyl alcohol	ND	2000	2180	109	2000	2310	115	5 84	40	70	130
tert-Amyl alcohol	ND	2000	2360	118	2000	2290	115	3 05	35	70	130
tert-Amyl methyl ether	ND	200	219	109	200	209	104	4 70	11	80	121
tert-Butyl ethyl ether	ND	200	216	108	200	226	113	4.54	10	77	123
tert-Butyl formate	ND	200	32.9	16.4 *	200	30.7	15 3 *	6.96	14	70	130
Toluene	793	200	966	86.3	200	990	98 5	2.50	10	80	121
m,p-Xylene	3910	400	4270	N/C	400	4270	N/C	N/C	10	82	121
o-Xylene	1120	200	1320	N/C	200	1360	N/C	N/C	10	84	119
Xylenes,Total	5030	600	5590	N/C	600	5630	N/C	N/C	9	81	122
Surr: 1,2-Dichloroethane-d4	ND	500	502	100	500	523	105	4.03	30	84	124
Surr: 4-Bromofluorobenzene	ND	500	504	101	500	506	101	0.416	30	89	111
Surr: Toluene-d8	ND	500	524	105	500	513	103	2.22	30	83	115

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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500 AMBASSADOR CAFFERY PARKWAY
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(337) 237-4775

Quality Control Report

CARDNO ATC

ANDERSON, SC

Analysis: Volatile Organics:Method 8260B
Method: SW8260B

WorkOrder: L0042946
Lab Batch ID: R334389

Method Blank

RunID GCMS1X_140519D-5553086 Units: ug/L
Analysis Date: 05/19/2014 12:37 Analyst: NN

Analyte	Result	Rep Limit
1,2-Dichloroethane	ND	5 0
3,3-Dimethyl-1-butanol	ND	10
Benzene	ND	1 0
Diisopropyl ether	ND	5 0
Ethanol	ND	100
Ethylbenzene	ND	1 0
Methyl tert-butyl ether	ND	1 0
Naphthalene	ND	5 0
t-Butyl alcohol	ND	10
tert-Amyl alcohol	ND	10
tert-Amyl methyl ether	ND	5 0
tert-Butyl ethyl ether	ND	5 0
tert-Butyl formate	ND	1 0
Toluene	ND	1.0
m,p-Xylene	ND	2 0
o-Xylene	ND	2 0
Xylenes,Total	ND	2 0
Surr 1,2-Dichloroethane-d4	102 8	84-124
Surr 4-Bromofluorobenzene	100 1	89-111
Surr Toluene-d8	99 7	83-115

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
L0042946-06A	MW-13
L0042946-22A	MW-PL-3
L0042946-25A	KMO-6
L0042946-26A	KMO-10
L0042946-27A	KMO-11
L0042946-28A	KMO-12
L0042946-29A	KMO-17
L0042946-32A	DUP-2
L0042946-33A	FIELD BLANK 1

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: GCMS1X_140519D-555308 Units: ug/L
Analysis Date: 05/19/2014 11 41 Analyst. NN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1,2-Dichloroethane	20.0	19.8	99.1	20 0	20.7	103	4.3	10	74	127
3,3-Dimethyl-1-butanol	200	202	101	200	211	106	4 3	37	26	173
Benzene	20.0	20.8	104	20.0	21.0	105	1.0	10	82	119
Diisopropyl ether	20.0	21.4	107	20.0	21.7	108	1.4	10	71	126
Ethanol	400	467	117	400	505	126	7.8	77	43	177

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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(337) 237-4775

Quality Control Report

CARDNO ATC

ANDERSON, SC

Analysis: Volatile Organics:Method 8260B **WorkOrder:** L0042946
Method: SW8260B **Lab Batch ID:** R334389

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: GCMS1X_140519D-555308 Units. ug/L
Analysis Date: 05/19/2014 11:41 Analyst: NN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Ethylbenzene	20.0	19 1	95.4	20 0	19.2	95.9	0.5	10	84	117
Methyl tert-butyl ether	20.0	21.1	106	20.0	21.4	107	1 5	58	75	126
Naphthalene	20.0	18 9	94.4	20 0	19 8	98.9	4.6	22	74	136
t-Butyl alcohol	200	223	111	200	230	115	3.1	96	1	201
tert-Amyl alcohol	200	205	102	200	207	103	1 0	35	55	151
tert-Amyl methyl ether	20.0	19.7	98.6	20 0	20.6	103	4.5	11	80	121
tert-Butyl ethyl ether	20.0	21.3	107	20 0	21.0	105	1.5	10	77	123
tert-Butyl formate	20.0	21.1	105	20 0	21.5	108	2.2	14	49	150
Toluene	20.0	19.2	96.0	20 0	19.0	95.1	1.0	10	80	121
m,p-Xylene	40 0	39.2	98.1	40 0	38 9	97.3	0 8	10	82	121
o-Xylene	20.0	18.7	93.5	20.0	18 9	94.6	1 2	10	84	119
Xylenes,Total	60 0	57.9	96 6	60 0	57.8	96 4	0.2	10	81	122
Surr 1,2-Dichloroethane-d4	50.0	51.4	103	50 0	50.8	102	1.0	30	84	124
Surr. 4-Bromofluorobenzene	50.0	48.4	96 8	50.0	50.0	100	3.3	30	89	111
Surr: Toluene-d8	50.0	50.3	101	50.0	51.2	102	1.7	30	83	115

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: L0042946-06
RunID GCMS1X_140519D-555310 Units: ug/L
Analysis Date: 05/19/2014 21:26 Analyst: NN

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
1,2-Dichloroethane	ND	400	405	101	400	369	92.3	9.37	10	74	127
3,3-Dimethyl-1-butanol	ND	4000	4660	117	4000	4050	101	14.0	37	70	130

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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ACCUTEST LABORATORIES

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500 AMBASSADOR CAFFERY PARKWAY
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(337) 237-4775

Quality Control Report

CARDNO ATC

ANDERSON, SC

Analysis: Volatile Organics:Method 8260B **WorkOrder:** L0042946
Method: SW8260B **Lab Batch ID:** R334389

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: L0042946-06
RunID GCMS1X_140519D-555310 Units: ug/L
Analysis Date: 05/19/2014 21:26 Analyst: NN

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	2880	400	3720	N/C	400	3350	N/C	N/C	10	82	119
Diisopropyl ether	ND	400	482	115	400	427	101	12.1 *	10	71	126
Ethanol	ND	8000	8820	110	8000	6020	75.2	37.8	40	70	130
Ethylbenzene	630	400	1150	131 *	400	1010	95.9	12.8 *	10	84	117
Methyl tert-butyl ether	ND	400	511	128 *	400	393	98.2	26.2	40	75	126
Naphthalene	241	400	771	132 *	400	572	82.9	29 5 *	22	74	130
t-Butyl alcohol	ND	4000	6270	157 *	4000	3650	91.2	52.8 *	40	70	130
tert-Amyl alcohol	1430	4000	12100	268 *	4000	4600	79.2	90.1 *	35	70	130
tert-Amyl methyl ether	ND	400	415	104	400	370	92.4	11 5 *	11	80	121
tert-Butyl ethyl ether	ND	400	446	111	400	389	97.2	13.6 *	10	77	123
tert-Butyl formate	ND	400	408	102	400	358	89.6	13.0	14	70	130
Toluene	779	400	1440	164 *	400	1200	106	17.7 *	10	80	121
m,p-Xylene	585	800	1560	122 *	800	1330	92.8	16 0 *	10	82	121
o-Xylene	326	400	809	121 *	400	701	93.6	14.4 *	10	84	119
Xylenes,Total	910.7	1200	2369	121 4	1200	2031	93.09	15.43 *	9	81	122
Surr. 1,2-Dichloroethane-d4	ND	1000	1060	106	1000	1020	102	4.07	30	84	124
Surr. 4-Bromofluorobenzene	ND	1000	1040	104	1000	1040	104	0.357	30	89	111
Surr: Toluene-d8	ND	1000	1020	102	1000	1030	103	0.622	30	83	115

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

CARDNO ATC

ANDERSON, SC

Analysis: Volatile Organics:Method 8260B
Method: SW8260B

WorkOrder: L0042946
Lab Batch ID: R334432

Method Blank

RunID: GCMS1H_140515B-5554324 Units: ug/L
Analysis Date 05/15/2014 12 23 Analyst: HJL

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
L0042946-05A	MW-12

Analyte	Result	Rep Limit
1,2-Dichloroethane	ND	5 0
3,3-Dimethyl-1-butanol	ND	10
Benzene	ND	1 0
Diisopropyl ether	ND	5 0
Ethanol	ND	100
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	1 0
Naphthalene	ND	5 0
t-Butyl alcohol	ND	10
tert-Amyl alcohol	ND	10
tert-Amyl methyl ether	ND	5 0
tert-Butyl ethyl ether	ND	5 0
tert-Butyl formate	ND	1 0
Toluene	ND	1 0
m,p-Xylene	ND	2 0
o-Xylene	ND	2 0
Xylenes,Total	ND	2 0
Surr 1,2-Dichloroethane-d4	99.8	84-124
Surr 4-Bromofluorobenzene	100 5	89-111
Surr Toluene-d8	99.3	83-115

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: GCMS1H_140515B-555432 Units ug/L
Analysis Date 05/15/2014 11:25 Analyst: HJL

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1,2-Dichloroethane	20.0	20.1	101	20 0	20.1	101	0.2	10	74	127
3,3-Dimethyl-1-butanol	200	162	81.0	200	144	72.0	11.8	30	70	130
Benzene	20.0	20.0	99.9	20.0	19.5	97.7	2.2	10	82	119
Diisopropyl ether	20.0	19.9	99.7	20 0	19.4	97.2	2 5	10	71	126
Ethanol	400	330	82.5	400	316	79.0	4.3	30	70	130

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules

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Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

CARDNO ATC

ANDERSON, SC

Analysis: Volatile Organics:Method 8260B **WorkOrder:** L0042946
Method: SW8260B **Lab Batch ID:** R334432

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: GCMS1H_140515B-555432 Units: ug/L
Analysis Date: 05/15/2014 11:25 Analyst: HJL

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Ethylbenzene	20.0	19.1	95 3	20.0	18.9	94.6	0.7	10	84	117
Methyl tert-butyl ether	20 0	19.6	98 2	20.0	18.9	94.6	3.8	30	75	126
Naphthalene	20.0	19.2	95.8	20.0	18.5	92.6	3.4	22	74	130
t-Butyl alcohol	200	179	89.4	200	157	78.4	13 1	30	70	130
tert-Amyl alcohol	200	181	90.3	200	153	76.5	16.6	30	70	130
tert-Amyl methyl ether	20.0	19.4	97.0	20 0	18.6	92.9	4.3	11	80	121
tert-Butyl ethyl ether	20.0	19.5	97.3	20 0	19.1	95.4	2 0	10	77	123
tert-Butyl formate	20.0	17 6	87.8	20.0	16.9	84.5	3.8	14	70	130
Toluene	20.0	18.9	94.6	20 0	18.5	92.5	2 3	10	80	121
m,p-Xylene	40.0	38.1	95.3	40 0	37 6	94.1	1.3	10	82	121
o-Xylene	20 0	19.3	96.3	20 0	18.9	94 3	2.1	10	84	119
Xylenes,Total	60.0	57.4	95.6	60.0	56.5	94 1	1.6	9	81	122
Surr 1,2-Dichloroethane-d4	50 0	48.2	96.4	50.0	49.9	99 8	3.5	30	84	124
Surr. 4-Bromofluorobenzene	50.0	49.7	99 4	50.0	50.3	101	1.2	30	89	111
Surr. Toluene-d8	50.0	49.4	98.7	50.0	49.5	99 0	0.2	30	83	115

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked L0042946-17
RunID GCMS1H_140515B-555434 Units: ug/L
Analysis Date: 05/15/2014 21:15 Analyst HJL

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
1,2-Dichloroethane	ND	1000	1030	103	1000	1040	104	1.03	10	74	127
3,3-Dimethyl-1-butanol	ND	10000	8540	85 4	10000	8170	81.7	4.49	37	70	130

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules

5/22/2014 3 44 28 PM

Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

CARDNO ATC

ANDERSON, SC

Analysis: Volatile Organics:Method 8260B **WorkOrder:** L0042946
Method: SW8260B **Lab Batch ID:** R334432

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked L0042946-17
RunID GCMS1H_140515B-555434 Units: ug/L
Analysis Date 05/15/2014 21:15 Analyst: HJL

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	1000	978	97.8	1000	1020	102	3.82	10	82	119
Diisopropyl ether	ND	1000	993	99.3	1000	1010	101	2 14	10	71	126
Ethanol	ND	20000	21500	108	20000	20100	100	6 95	40	70	130
Ethylbenzene	ND	1000	938	93 8	1000	969	96 9	3 27	10	84	117
Methyl tert-butyl ether	ND	1000	996	99 6	1000	999	99 9	0.259	40	75	126
Naphthalene	ND	1000	1030	103	1000	1010	101	2 14	22	74	130
t-Butyl alcohol	ND	10000	10400	104	10000	9430	94 3	9 53	40	70	130
tert-Amyl alcohol	ND	10000	10500	105	10000	9480	94 8	10.1	35	70	130
tert-Amyl methyl ether	ND	1000	980	98.0	1000	980	98.0	0.0257	11	80	121
tert-Butyl ethyl ether	ND	1000	971	97.1	1000	982	98.2	1.13	10	77	123
tert-Butyl formate	ND	1000	850	85.0	1000	834	83.4	1.90	14	70	130
Toluene	ND	1000	915	91.5	1000	954	95.4	4.15	10	80	121
m,p-Xylene	ND	2000	1880	94.0	2000	1950	97.4	3.54	10	82	121
o-Xylene	ND	1000	935	93.5	1000	972	97.2	3.94	10	84	119
Xylenes,Total	ND	3000	2815	93.82	3000	2922	97.34	3.675	9	81	122
Surr: 1,2-Dichloroethane-d4	ND	2500	2600	104	2500	2510	100	3.63	30	84	124
Surr 4-Bromofluorobenzene	ND	2500	2500	100	2500	2520	101	0.597	30	89	111
Surr. Toluene-d8	ND	2500	2470	98.8	2500	2490	99.8	0.988	30	83	115

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

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Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

CARDNO ATC

ANDERSON, SC

Analysis: Volatile Organics:Method 8260B
Method: SW8260B

WorkOrder: L0042946
Lab Batch ID: R334481

Method Blank

RunID: GCMS1X_140520B-5555969 Units: ug/L
Analysis Date. 05/20/2014 12:32 Analyst: NN

Analyte	Result	Rep Limit
1,2-Dichloroethane	ND	5 0
3,3-Dimethyl-1-butanol	ND	10
Benzene	ND	1 0
Diisopropyl ether	ND	5 0
Ethanol	ND	100
Ethylbenzene	ND	1 0
Methyl tert-butyl ether	ND	1.0
Naphthalene	ND	5 0
t-Butyl alcohol	ND	10
tert-Amyl alcohol	ND	10
tert-Amyl methyl ether	ND	5 0
tert-Butyl ethyl ether	ND	5.0
tert-Butyl formate	ND	1 0
Toluene	ND	1 0
m,p-Xylene	ND	2 0
o-Xylene	ND	2 0
Xylenes,Total	ND	2 0
Surr 1,2-Dichloroethane-d4	98 7	84-124
Surr 4-Bromofluorobenzene	101 1	89-111
Surr Toluene-d8	99 4	83-115

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
L0042946-23A	KMO-3
L0042946-24A	KMO-5
L0042946-30A	KMO-18
L0042946-31A	DUP-1

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: GCMS1X_140520B-555596 Units: ug/L
Analysis Date: 05/20/2014 11 36 Analyst: NN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1,2-Dichloroethane	20.0	19.2	96.2	20 0	20.6	103	6.9	10	74	127
3,3-Dimethyl-1-butanol	200	252	126	200	249	124	1 4	30	70	130
Benzene	20.0	21.2	106	20.0	22.5	113	6.4	10	82	119
Diisopropyl ether	20.0	22.9	115	20.0	24.1	120	4.8	10	71	126
Ethanol	400	426	106	400	501	125	16.3	30	70	130

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added Control limits do not apply.
TNTC - Too numerous to count

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Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

CARDNO ATC

ANDERSON, SC

Analysis: Volatile Organics:Method 8260B **WorkOrder:** L0042946
Method: SW8260B **Lab Batch ID:** R334481

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: GCMS1X_140520B-555596 Units: ug/L
Analysis Date: 05/20/2014 11:36 Analyst NN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Ethylbenzene	20.0	20.0	100	20 0	20 6	103	2.7	10	84	117
Methyl tert-butyl ether	20.0	22 6	113	20.0	23 9	119	5.6	30	75	126
Naphthalene	20.0	19.8	98 9	20 0	20.2	101	2 4	22	74	130
t-Butyl alcohol	200	244	122	200	236	118	3 2	30	70	130
tert-Amyl alcohol	200	229	115	200	226	113	1.6	30	70	130
tert-Amyl methyl ether	20.0	21.4	107	20.0	21.6	108	1.0	11	80	121
tert-Butyl ethyl ether	20.0	22.7	113	20.0	23.6	118	3.9	10	77	123
tert-Butyl formate	20 0	21.9	109	20 0	23.2	116	5 7	14	70	130
Toluene	20.0	19.4	97.0	20 0	20.8	104	6.8	10	80	121
m,p-Xylene	40.0	39 8	99.6	40.0	41.6	104	4.3	10	82	121
o-Xylene	20.0	19.2	96.1	20 0	20.1	101	4.7	10	84	119
Xylenes,Total	60	59	98	60	62	100	4.4	9	81	122
Surr: 1,2-Dichloroethane-d4	50.0	51 7	103	50.0	50.9	102	1.7	30	84	124
Surr: 4-Bromofluorobenzene	50 0	51 5	103	50.0	51.3	103	0.5	30	89	111
Surr: Toluene-d8	50.0	49.4	98.9	50.0	50.7	101	2.4	30	83	115

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: L0042946-31
RunID GCMS1X_140520B-555597 Units: ug/L
Analysis Date: 05/20/2014 21:23 Analyst: NN

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
1,2-Dichloroethane	ND	2000	1650	82 7	2000	1710	85.4	3.21	10	74	127
3,3-Dimethyl-1-butanol	ND	20000	22900	114	20000	20900	105	9 09	37	70	130

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply
TNTC - Too numerous to count

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Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

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500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

CARDNO ATC

ANDERSON, SC

Analysis: Volatile Organics:Method 8260B
Method: SW8260B

WorkOrder: L0042946
Lab Batch ID: R334481

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked L0042946-31
RunID. GCMS1X_140520B-555597 Units ug/L
Analysis Date· 05/20/2014 21:23 Analyst: NN

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	6650	2000	8770	106	2000	8700	103	0.791	10	82	119
Diisopropyl ether	ND	2000	2180	104	2000	2230	106	2.52	10	71	126
Ethanol	ND	40000	34500	86.3	40000	37300	93 3	7.73	40	70	130
Ethylbenzene	2230	2000	3720	74.2 *	2000	3750	75.9 *	0.925	10	84	117
Methyl tert-butyl ether	ND	2000	2380	119	2000	2410	121	1.24	40	75	126
Naphthalene	863	2000	2490	81 5	2000	2450	79.3	1.81	22	74	130
t-Butyl alcohol	ND	20000	21600	108	20000	19700	98.6	9.04	40	70	130
tert-Amyl alcohol	7270	20000	27900	103	20000	24200	84.8	14 1	35	70	130
tert-Amyl methyl ether	ND	2000	1850	92.6	2000	1840	91.8	0.862	11	80	121
tert-Butyl ethyl ether	ND	2000	1980	99.0	2000	2150	108	8.38	10	77	123
tert-Butyl formate	ND	2000	1910	95.6	2000	1940	97.0	1.40	14	70	130
Toluene	24700	2000	24900	N/C	2000	25700	N/C	N/C	10	80	121
m,p-Xylene	8510	4000	11300	68 5 *	4000	11700	78 7 *	3.53	10	82	121
o-Xylene	4020	2000	5360	66.9 *	2000	5480	72 8 *	2.18	10	84	119
Xylenes,Total	12530	6000	16660	68.01 *	6000	17180	76.72 *	3.097	9	81	122
Surr: 1,2-Dichloroethane-d4	ND	5000	5190	104	5000	5390	108	3.76	30	84	124
Surr: 4-Bromofluorobenzene	ND	5000	5150	103	5000	5230	105	1 44	30	89	111
Surr: Toluene-d8	ND	5000	5030	101	5000	5060	101	0.747	30	83	115

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

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Version 2.1 - Modified February 11, 2011

Sample Receipt Checklist
And
Chain of Custody

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Sample Receipt Checklist

Workorder:	**L0042946**	Received By:	**MAR**
Date and Time Received:	**5/14/2014 10:00:00 AM**	Carrier name:	**FedEx-Std 1 Day PM**
Temperature	**2.3°C**	Chilled by:	**Water Ice**

		Yes	No	Not Present
1.	**Shipping container/cooler in good condition?**	☑	☐	☐
2.	**Custody seals intact on shippping container/cooler?**	☑	☐	☐
3.	**Custody seals intact on sample bottles?**	☐	☐	☑
4.	**Chain of custody present?**	☑	☐	
5.	**Chain of custody signed when relinquished and received?**	☑	☐	
6.	**Chain of custody agrees with sample labels?**	☑	☐	
7.	**Samples in proper container/bottle?**	☑	☐	
8.	**Sample containers intact?** 1 TRIP BLANK VIAL REC'D BROKEN STILL PLENTY OF SAMPLE TO COMPLETE REQUESTED ANALYSIS	☐	☑	
9.	**Sufficient sample volume for indicated test?**	☑	☐	
10.	**All samples received within holding time?**	☑	☐	
11.	**Container/Temp Blank temperature in compliance?**	☑	☐	
12.	**Water - VOA vials have zero headspace?**	☑	☐	VOA Vials Not Present ☐
13.	**Water - Preservation checked upon receipt (except VOA*)?**	☐	☐	Not Applicable ☑

***VOA Preservation Checked After Sample Analysis**

Accutest Representative: _____ **Contact Date & Time:** _____

Client Name Contacted: _____

Non Conformance Issues: _____

Client Instructions: _____

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

Accutest Gulf Coast
500 Ambassador Caffery Pkwy, Scott, LA 70583
TEL.337-237-4775 FAX: 337-237-7838
www.accutest.com

LSR-F005.00

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: L0042946

Client / Reporting Information

Company Name: Cardno ATC
Street Address: 100 Northeast Drive
City / State / Zip: Cola, SC 29203
Project Contact / E-mail: Jesse Keefe
Phone # / Fax #: 803-735-0003
Sampler(s) Name(s) / Phone #: Chris Hamilton, Charlie Strange, William Fogle Brakenbeldung

Project Information

Project Name: Fantny 585 Former 81 Food Mart (DHEC UST# 12458)
Street: 1562 E. Greenville Hwy.
City / State: Anderson, SC
Project #:
Client Purchase Order #:
Project Manager: Jesse Keefe

Billing Information (If different from Report to)
Company Name:
Street Address:
City / State / Zip:
Attention:

Requested Analyses: BTEX 8260B, MNJ, 1,2-DCA, 8 days; EDB 8011

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	Collection Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZANaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	BTEX 8260B, MNJ, 1,2-DCA, 8 days	EDB 8011		LAB USE ONLY
	~~MW-1~~	~~5-~~	~~C.M.~~		~~GW~~	~~6~~	~~X~~												~~X~~	~~X~~		
	MW-2	5-13	10:09	CH	GW	6	X												X	X	6	
	MW-3	5-13	10:34	CH		6															6	
	MW-4	5-13	11:39	CH																	6	
	~~MW-5~~	~~5-~~	~~C.M.~~																			
	~~MW-6~~	~~5-~~	~~C.M.~~		~~GW~~	~~6~~	~~X~~												~~X~~	~~X~~		
	MW-7	5-12	14:52	BB	GW	6	X												X	X	6	
	~~MW-8~~	~~5-~~	~~C.M.~~																			
	~~MW-9~~	~~5-~~	~~C.M.~~																			
	~~MW-10~~	~~5-~~	~~C.M.~~																			
	~~MW-11~~	~~5-~~	~~C.M.~~																			
	MW-12	5-13	11:53	CH	GW	6	X												X	X	6	

Turnaround Time (Business days)
- [ ] Standard
- [ ] 5 Day *RUSH*
- [ ] 4 Day *RUSH*
- [ ] 3 Day *RUSH*
- [ ] 2 Day *RUSH*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM) / Date:

Data Deliverable Information
- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions
RX-27 (13)
YX-24 (FS)

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler	Date Time	Received By	Relinquished By	Date/Time	Received By
1 CHRIS HAMILTON	5-13-14 19:00	1 FED EX 5-13-14 19:00	2 Fed Ex	5/14/14 9:00	2 Accutest (OV)
Relinquished by Sampler: 3 Accutest (OV)	Date/Time: 5/14/14 10:00	Received By: 3 Mark Red	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by:	Date Time:	Received By:	Custody Seal #	Intact	Preserved where applicable	On Ice	Cooler Temp.

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

Accutest Gulf Coast
500 Ambassador Caffery Pkwy, Scott, LA 70583
TEL.337-237-4775 FAX. 337-237-7838
www.accutest.com

LSR-F005.00

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #:

Client / Reporting Information

Company Name: Cardno ATC
Street Address: 400 Northeast Dr.
City / State / Zip: Cola, SC 29203
Project Contact / E-mail: Jesse Keefe
Phone # / Fax #: 803-735-0003
Sampler(s) Name(s) / Phone #: Chris Hamilton, Charlie Strange, William Fogle, Brodie Belding

Project Information

Project Name: Former 8 Food Mart Pantry 585 (DHEC UST # 12458)
Street: 1502 E. Greenville HWY.
City / State: Anderson, SC
Project #:
Client Purchase Order #:
Project Manager: Jesse Keefe

Billing Information (if different from Report to):
Company Name:
Street Address:
City / State / Zip:
Attention:

Requested Analyses

RTEX8260B, MTBE, DCA, 8OXYS; EDB 8011

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZA/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	Na2SO4	ENCORE	OTHER	RTEX8260B, MTBE, DCA, 8OXYS	EDB 8011									LAB USE ONLY
	MW-13	5-12	12:23	CH	GW	6	X												X	X								6	
	MW-14	5-12	13:53	BB																								6	
	MW-15	5-12	14:21	BB																								6	
	MW-16	5-13	10:53	CH																								6	
	MW-17 [redacted] CS	5-12	15:12	BB																								6	
	~~MW-23~~	~~5-~~	~~e.m.~~																										
	~~MW-24~~	~~5-~~	~~e.m.~~																										
	MW-25	5-13	12:31	CH	GW	6	X												X	X								6	
	MW-26	5-13	9:46	CH																								6	
	MW-27	5-13	15:19	CH																								6	
	~~MW-28~~	~~5-~~	~~e.m.~~																										
	~~MW-29~~	~~5-~~	~~e.m.~~																										

Turnaround Time (Business days)

- ☐ Standard
- ☐ 5 Day *RUSH*
- ☐ 4 Day *RUSH*
- ☐ 3 Day *RUSH*
- ☐ 2 Day *RUSH*
- ☐ 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- ☐ Commercial "A" (Level 1)
- ☐ Commercial "B" (Level 2)
- ☐ FULT1 (Level 3+4)
- ☐ REDT1 (Level 3+4)
- ☐ Commercial "C"
- ☐ TRRP
- ☐ EDD Format
- ☐ Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 CHRIS HAMILTON	5-13-14 19:00	1 FED EX 5-13-14 19:00	2 Fed Ex	5/14/14 09:00	2 Accutest (UN)
Relinquished by Sampler: 3 Accutest (UN)	Date Time: 5/14/14 10:00	Received By: 3 Mark Red	Relinquished By: 4	Date Time:	Received By 4
Relinquished by:	Date Time:	Received By:	Custody Seal / Intact	Preserved where applicable	On Ice / Cooler Temp.

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

Accutest Gulf Coast
500 Ambassador Caffery Pkwy, Scott, LA 70583
TEL.337-237-4775 FAX: 337-237-7838
www.accutest.com

LSR-F005.00

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #:

Client / Reporting Information

Company Name: Cardno ATC
Street Address: 100 Northeast Dr,
City / State / Zip: Cola, SC 29203
Project Contact / E-mail: Jesse Keefe
Phone # / Fax #: 803-735-0003
Sampler(s) Name(s) / Phone #: Charles Hamilton, Strange, William Foste, Blake Belling

Project Information

Project Name: Pantry 585 Former 81 FoodMart DHEC UST #12458
Street: 1502 E. Greenville Hwy
City / State: Anderson, SC
Project #:
Client Purchase Order #:
Project Manager: Jesse Keefe

Billing Information (if different from Report to)
Company Name:
Street Address:
City / State / Zip:
Attention:

Requested Analyses: BTEX 8260B, MTBE, 1,2DCA 8260B; EDB 8011

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	Zn/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER	BTEX 8260B, MTBE, 1,2DCA 8260B	EDB 8011									LAB USE ONLY
	~~MW-30~~	~~5~~	~~C.M.~~		~~GW~~	~~6~~													~~X~~	~~X~~									
	~~MW-31~~	~~5~~	~~C.M.~~																										
	~~DMW-1~~	~~5~~	~~C.M.~~																										
	DMW-2	5-13	12:17	BB	GW	6	X												X	X								6	
	DMW-3	5-13	10:22	BB																								6	
	~~DMW-4~~	~~5~~	~~C.M.~~																										
	MW-18D	5-13	11:29	BB	GW	6	X												X	X								6	
	MW-19D	5-13	9:48	BB																								6	
	MW-20D	5-13	13:20	BB																								6	
	MW-21D	5-12	10:56	BB																								6	
	~~MW-22D~~	~~5~~	~~C.M.~~																										
	MW-PL-1	5-13	16:34	CH	GW	6	X												X	X								6	

Turnaround Time (Business days)

- ☐ Standard
- ☐ 5 Day *RUSH*
- ☐ 4 Day *RUSH*
- ☐ 3 Day *RUSH*
- ☐ 2 Day *RUSH*
- ☐ 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- ☐ Commercial "A" (Level 1)
- ☐ Commercial "B" (Level 2)
- ☐ FULT1 (Level 3+4)
- ☐ REDT1 (Level 3+4)
- ☐ Commercial "C"
- ☐ TRRP
- ☐ EDD Format
- ☐ Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 CHRIS HAMILTON	5-13-14 19:00	1 FED EX 5-13-14 19:00	2 Fed Ex	5/14/14 09:00	2 Accutest (OV)
Relinquished by Sampler: 3 Accutest (OV)	Date Time: 5/14/14 10:01	Received By: 3 Mark Red	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by:	Date Time:	Received By:	Custody Seals: Intact	Preserved where applicable	On Ice: Y	Cooler Temp. 2 2 1 1 1 1 5 0 R

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

Accutest Gulf Coast
500 Ambassador Caffery Pkwy, Scott, LA 70583
TEL 337-237-4775 FAX. 337-237-7838
www.accutest.com

LSR-F005.00

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job #

Client / Reporting Information

Company Name: Jordan ATC
Street Address: 400 northeast Dr.
City State Zip: Cola, SC 29203
Project Contact / E-mail: Jesse Keefe
Phone # / Fax #: 803-735-0003
Sampler(s) Name(s) / Phone #: Chris Hamilton, Charlie Strange, William Foste, Broder Bolling

Project Information

Project Name: Bentny 585 Former 81 Food Mart (DHEC UST# 12458)
Street: 1502 E. Greenville HWY.
City State: Anderson, SC
Project #:
Client Purchase Order #:
Project Manager: Jesse Keefe

Billing Information (If different from Report to)

Company Name:
Street Address:
City State Zip:
Attention:

Requested Analyses: BTEX 8260B, MNL, 2DC4, 8 days; EDB 8011

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	Collection Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZA/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	ENCORE	OTHER		LAB USE ONLY
	MW-PL-2	5-12	16:16	CH	GW	6	X												6	
	MW-PL-3	5-12	15:53	CH															6	
	KMO-3	5-12	17:59	CH															6	
	KMO-5	5-12	17:40	CH															6	
	KMO-6	5-12	14:37	CH															6	
	KMO-10	5-12	15:36	CH															6	
	KMO-11	5-12	14:53	CH															6	
	KMO-12	5-12	15:24	CH															6	
	KMO-17	5-12	16:53	CH															6	
	KMO-18	5-12	17:10	CH															6	

Turnaround Time (Business days)

- [ ] Standard
- [ ] 5 Day *RUSH*
- [ ] 4 Day *RUSH*
- [ ] 3 Day *RUSH*
- [ ] 2 Day *RUSH*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM) / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 CHRIS HAMILTON	5-13-14 19:00	1 FED EX 5-13-14 19:00	2 Fed Ex	5/14/14 09:00	2 Accutest (OV)
Relinquished by Sampler: 3 Accutest (OV)	Date Time: 5/14/14 10:00	Received By: 3 Mark Red	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by:	Date Time	Received By:	Custody Seal # n/a	Intact / Not intact	Preserved where applicable ☑ On Ice ☑ Cooler Temp. 2.3 SV: 250R

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

Accutest Gulf Coast
500 Ambassador Caffery Pkwy, Scott, LA 70583
TEL.337-237-4775 FAX 337-237-7838
www.accutest.com

LSR-F005.00

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #:

Client / Reporting Information

Company Name: Cardno ATC
Street Address: 400 Northeast Dr.
City: Cola State: SC Zip: 29203
Project Contact: Jesse Keefe E-mail:
Phone #: 803-735-0003 Fax #:
Sampler(s) Name(s): Chris Hamilton, Chor Strange, William Foyle, Braden Bettley Phone #:

Project Information

Project Name: Pantry 5-85 Former 81 Food Mart (DHEC UST #12258)
Street: 1502 E. Greenville Hwy.
City: Anderson State: SC
Project #:
Client Purchase Order #:
Project Manager: Jesse Keefe
Attention:

Billing Information (If different from Report to)
Company Name:
Street Address:
City State Zip:

Requested Analyses: BTEX 8260B, MTBE, 1,2DCA, Naphthalene 8011 EDB

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	Collection Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZnAc/NaOH	HNO3	H2SO4	NONE	DI Water	MeOH	TSP	NaHSO4	ENCORE	OTHER	BTEX 8260B, MTBE, 1,2DCA, Naphthalene	EDB 8011								LAB USE ONLY
	DUP-1	5-12	15:19	BB	GW	6	X												X	X							6	
	DUP-2	5-13	11:58	CH	GW	6	X												X	X							6	
	Field Blank-1	5-12	15:30	BB	FB	6	X												X	X							6	
	Field Blank-2	5-13	12:45	BB	FB	6	X												X	X							6	
	Trip Blank	5-12	08:00	BB	TB	3	X												X								3	
	Trip Blank	5-12	08:02	BB	TB	3	X												X								3	
	Trip Blank	5-12	08:04	BB	TB	3	X												X								2	

Turnaround Time (Business days)
- Standard
- 5 Day *RUSH*
- 4 Day *RUSH*
- 3 Day *RUSH*
- 2 Day *RUSH*
- 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information
- Commercial "A" (Level 1)
- Commercial "B" (Level 2)
- FULT1 (Level 3+4)
- REDT1 (Level 3+4)
- Commercial "C"
- TRRP
- EDD Format
- Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 CHRIS HAMILTON	5-13-14 19:00	1 FED EX 5-13-14 19:00	2 Fed Ex	5/14/14 09:00	2 Heather (ON)
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time	Received By:
3 Accutest (ON)	5/14/14 10:00	3 Mark Red	4		4
Relinquished by:	Date Time:	Received By:	Custody Seal #	Preserved where applicable	On Ice / Cooler Temp.
5		5	15/0C ☐ Intact ☐ Not intact	✓	☑ 9.3 DW 2.50R

Origin ID: USCA

FedEx. Express

J14101402070326

Ship Date: 13MAY14
ActWgt: 50.0 LB
CAD: 8790804/INET3490

Delivery Address Bar Code

BILL RECIPIENT

Ref # Pantry No. 585
Invoice #
PO #
Dept #

1 of 3

WED - 14 MAY AA
STANDARD OVERNIGHT

TRK# 0201 7988 4952 6233

MASTER

XH LFTA

70583
LA-US
LFT

522G1/62D3/F220

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

From: (803) 735-0003
Braden Belding
ATC Associates
400 Northeast Drive, Unit Q

Columbia, SC 29203

Origin ID: USCA

FedEx. Express

J14101402070326

Ship Date: 13MAY14
ActWgt: 50.0 LB
CAD: 8790804/INET3490

Delivery Address Bar Code

SHIP TO: (337) 237-4775 BILL RECIPIENT

Attn: Sample Management
Accutest Labs
500 AMBASSADOR CAFFERY PKWY

SCOTT, LA 70583

Ref # Pantry No. 585
Invoice #
PO #
Dept #

2 of 3

WED - 14 MAY AA
STANDARD OVERNIGHT

MPS# 7988 4952 5101
0263
Mstr# 7988 4952 6233
0201

XH LFTA

70583
LA-US
LFT

522G1/6203/F220

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

From: (803) 735-0003
Braden Belding
ATC Associates
400 Northeast Drive, Unit Q

Columbia, SC 29203

Origin ID: USCA

FedEx. Express

J1410140207032 6

Ship Date: 13MAY14
ActWgt: 50.0 LB
CAD: 8790804/INET3490

Delivery Address Bar Code

SHIP TO: (337) 237-4775 BILL RECIPIENT

Attn: Sample Management
Accutest Labs
500 AMBASSADOR CAFFERY PKWY

SCOTT, LA 70583

Ref # Pantry No. 585
Invoice #
PO #
Dept #

3 of 3

MPS# 7988 4952 5112
0263

Mstr# 7988 4952 6233
0201

WED - 14 MAY AA
STANDARD OVERNIGHT

70583
LA-US
LFT

XH LFTA

522G1/62D3/F220

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Case Narrative for:

CARDNO ATC

Certificate of Analysis Number:

L0043810

Report To:		Project Name:	ANDERSON, SC
CARDNO ATC		Site:	PANTRY #585 FORMER 81 FOOD MAR
JESSE KEEFFE		Site Address:	
400 NORTHEAST DR, UNIT Q			
COLUMBIA		PO Number:	
SC		State:	South Carolina
29203-		State Cert. No.:	73004001
ph: (803) 735-0003	fax:	Date Reported:	6/17/2014

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect The MS and MSD will provide site specific matrix data for those samples spiked by the laboratory and may be applicable to other samples of similar matrix from the site. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process If insufficient sample is supplied for MS/MSD, a Laboratory Control Sample (LCS) and a Laboratory Control Sample Duplicate (LCSD) are reported with the analytical batch and serve as the batch quality control (QC).

Results are reported on a Wet Weight Basis unless otherwise noted in the sample unit field as -dry.

The collection of samples using encores, terracores or other field collection devices may result in inconsistent initial sample weights for the parent sample and MS/MSD samples.

The MS/MSD recovery and precision data are calculated based on detected spike concentrations that are adjusted for initial sample weights As a result of the variability between initial sample weights, the calculated RPD may have increased bias.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

Accutest Gulf Coast is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs

Christina H Larriviere

6/17/2014

Christina Larriviere
Project Manager

Date

Test results meet all requirements of NELAC, unless specified in the narrative

Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

CARDNO ATC

Certificate of Analysis Number:

L0043810

Report To: CARDNO ATC
JESSE KEEFFE
400 NORTHEAST DR, UNIT Q

COLUMBIA
SC
29203-
ph: (803) 735-0003 fax:

Fax To:

Project Name: ANDERSON, SC
Site: PANTRY #585 FORMER 81 FOOD MAR
Site Address:

PO Number:
State: South Carolina
State Cert. No.: 73004001
Date Reported: 6/17/2014

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
MW 22D	L0043810-01	Water	05/31/2014 16.45	6/5/2014 10.00:00 AM		☐
MW 23	L0043810-02	Water	05/31/2014 14.27	6/5/2014 10.00:00 AM		☐
MW 24	L0043810-03	Water	05/31/2014 15:50	6/5/2014 10.00:00 AM		☐
DMW 1	L0043810-04	Water	05/31/2014 16.59	6/5/2014 10.00:00 AM		☐
MW 28	L0043810-05	Water	05/31/2014 12:08	6/5/2014 10·00:00 AM		☐
DUP	L0043810-06	Water	05/31/2014 14.32	6/5/2014 10.00:00 AM		☐
FIELD BLANK	L0043810-07	Water	05/31/2014 17·12	6/5/2014 10:00:00 AM		☐
TRIP BLANK	L0043810-08	Water	05/31/2014 0·00	6/5/2014 10:00:00 AM		☐

Christina Larriviere
Project Manager

6/17/2014
Date

Ron Benjamin
Laboratory Director

Karen Rodrigue-Varnado
Quality Assurance Officer

Version 2.1 - Modified February 11, 2011

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500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW 22D **Collected:** 05/31/2014 16:45 **Lab Sample ID:** L0043810-01

Site: PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1

Analyses/Method	Result	QUAL		Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP					**MCL**		**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND			0.023		1	06/07/14 13:58	DF	5583770
Surr: 1-Chloro-2-fluorobenzene	142		%	32-169		1	06/07/14 13:58	DF	5583770

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	06/06/2014 8 30	AVB	1.17

VOLATILE ORGANICS:METHOD 8260B					MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND			10		1	06/11/14 1:06	SNV	5588485
Diisopropyl ether	ND			5	150	1	06/11/14 1 06	SNV	5588485
Ethanol	ND			100	1000	1	06/11/14 1 06	SNV	5588485
t-Butyl alcohol	ND			10	1400	1	06/11/14 1.06	SNV	5588485
tert-Amyl alcohol	ND			10	240	1	06/11/14 1·06	SNV	5588485
tert-Amyl methyl ether	ND			5	128	1	06/11/14 1.06	SNV	5588485
tert-Butyl ethyl ether	ND			5	47	1	06/11/14 1.06	SNV	5588485
tert-Butyl formate	ND			1	100	1	06/11/14 1.06	SNV	5588485
1,2-Dichloroethane	ND			5		1	06/11/14 1:06	SNV	5588485
Benzene	ND			1		1	06/11/14 1:06	SNV	5588485
Ethylbenzene	ND			1		1	06/11/14 1:06	SNV	5588485
Methyl tert-butyl ether	ND			1		1	06/11/14 1:06	SNV	5588485
Naphthalene	ND			5		1	06/11/14 1:06	SNV	5588485
Toluene	ND			1		1	06/11/14 1:06	SNV	5588485
m,p-Xylene	ND			2		1	06/11/14 1:06	SNV	5588485
o-Xylene	ND			2		1	06/11/14 1:06	SNV	5588485
Xylenes,Total	ND			2		1	06/11/14 1.06	SNV	5588485
Surr: 1,2-Dichloroethane-d4	97.5		%	84-124		1	06/11/14 1.06	SNV	5588485
Surr. 4-Bromofluorobenzene	95.8		%	89-111		1	06/11/14 1.06	SNV	5588485
Surr: Toluene-d8	98.3		%	83-115		1	06/11/14 1:06	SNV	5588485

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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500 AMBASSADOR CAFFERY PARKWAY
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(337) 237-4775

Client Sample ID: MW 23 **Collected:** 05/31/2014 14:27 **Lab Sample ID:** L0043810-02

Site: PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1

Analyses/Method	Result	QUAL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP				**MCL**		**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND		0.022		1	06/07/14 14:19	DF	5583771
Surr: 1-Chloro-2-fluorobenzene	143		% 32-169		1	06/07/14 14:19	DF	5583771

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	06/06/2014 8:30	AVB	1.12

VOLATILE ORGANICS:METHOD 8260B				MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND		10		1	06/11/14 1:34	SNV	5588486
Diisopropyl ether	14		5	150	1	06/11/14 1:34	SNV	5588486
Ethanol	ND		100	1000	1	06/11/14 1:34	SNV	5588486
t-Butyl alcohol	ND		10	1400	1	06/11/14 1:34	SNV	5588486
tert-Amyl alcohol	**290**	**>MCL**	**10**	**240**	**1**	**06/11/14 1:34**	**SNV**	**5588486**
tert-Amyl methyl ether	ND		5	128	1	06/11/14 1:34	SNV	5588486
tert-Butyl ethyl ether	ND		5	47	1	06/11/14 1:34	SNV	5588486
tert-Butyl formate	ND		1	100	1	06/11/14 1:34	SNV	5588486
1,2-Dichloroethane	ND		5		1	06/11/14 1:34	SNV	5588486
Benzene	34		1		1	06/11/14 1:34	SNV	5588486
Ethylbenzene	9.1		1		1	06/11/14 1:34	SNV	5588486
Methyl tert-butyl ether	83		1		1	06/11/14 1:34	SNV	5588486
Naphthalene	10		5		1	06/11/14 1:34	SNV	5588486
Toluene	21		1		1	06/11/14 1:34	SNV	5588486
m,p-Xylene	43		2		1	06/11/14 1:34	SNV	5588486
o-Xylene	20		2		1	06/11/14 1:34	SNV	5588486
Xylenes,Total	63		2		1	06/11/14 1:34	SNV	5588486
Surr: 1,2-Dichloroethane-d4	98.2		% 84-124		1	06/11/14 1:34	SNV	5588486
Surr. 4-Bromofluorobenzene	99.7		% 89-111		1	06/11/14 1:34	SNV	5588486
Surr. Toluene-d8	100		% 83-115		1	06/11/14 1:34	SNV	5588486

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW 24 **Collected:** 05/31/2014 15:50 **Lab Sample ID:** L0043810-03

Site: PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1

Analyses/Method	Result	QUAL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP				**MCL**		**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND		0.023		1	06/07/14 14:40	DF	5583772
Surr: 1-Chloro-2-fluorobenzene	118		% 32-169		1	06/07/14 14:40	DF	5583772

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	06/06/2014 8.30	AVB	1.15

VOLATILE ORGANICS:METHOD 8260B				MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND		10		1	06/11/14 2 03	SNV	5588487
Diisopropyl ether	**350**	**>MCL**	**5**	**150**	**1**	**06/11/14 2:03**	**SNV**	**5588487**
Ethanol	ND		100	1000	1	06/11/14 2:03	SNV	5588487
t-Butyl alcohol	ND		10	1400	1	06/11/14 2.03	SNV	5588487
tert-Amyl alcohol	**12000**	**>MCL**	**50**	**240**	**5**	**06/11/14 15:49**	**NN**	**5590877**
tert-Amyl methyl ether	61		5	128	1	06/11/14 2.03	SNV	5588487
tert-Butyl ethyl ether	ND		5	47	1	06/11/14 2:03	SNV	5588487
tert-Butyl formate	ND		1	100	1	06/11/14 2.03	SNV	5588487
1,2-Dichloroethane	ND		5		1	06/11/14 2:03	SNV	5588487
Benzene	680		5		5	06/11/14 15:49	NN	5590877
Ethylbenzene	19		1		1	06/11/14 2:03	SNV	5588487
Methyl tert-butyl ether	3100		10		10	06/12/14 17:42	NN	5592249
Naphthalene	33		5		1	06/11/14 2:03	SNV	5588487
Toluene	92		1		1	06/11/14 2.03	SNV	5588487
m,p-Xylene	39		2		1	06/11/14 2:03	SNV	5588487
o-Xylene	44		2		1	06/11/14 2:03	SNV	5588487
Xylenes,Total	83		2		1	06/11/14 2:03	SNV	5588487
Surr: 1,2-Dichloroethane-d4	103		% 84-124		5	06/11/14 15:49	NN	5590877
Surr: 1,2-Dichloroethane-d4	105		% 84-124		10	06/12/14 17:42	NN	5592249
Surr 1,2-Dichloroethane-d4	105		% 84-124		1	06/11/14 2.03	SNV	5588487
Surr. 4-Bromofluorobenzene	102		% 89-111		10	06/12/14 17.42	NN	5592249
Surr 4-Bromofluorobenzene	100		% 89-111		5	06/11/14 15.49	NN	5590877
Surr: 4-Bromofluorobenzene	99.3		% 89-111		1	06/11/14 2 03	SNV	5588487
Surr. Toluene-d8	102		% 83-115		10	06/12/14 17:42	NN	5592249
Surr Toluene-d8	102		% 83-115		5	06/11/14 15:49	NN	5590877
Surr. Toluene-d8	93.4		% 83-115		1	06/11/14 2:03	SNV	5588487

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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Version 2.2 - Modified January 16, 2012

ACCUTEST LABORATORIES

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500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: DMW 1 **Collected:** 05/31/2014 16:59 **Lab Sample ID:** L0043810-04

Site: PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1

Analyses/Method	Result	QUAL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP				**MCL**		**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND		0.023		1	06/07/14 15:02	DF	5583773
Surr: 1-Chloro-2-fluorobenzene	141		% 32-169		1	06/07/14 15:02	DF	5583773

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	06/06/2014 8.00	AVB	1.17

VOLATILE ORGANICS:METHOD 8260B				MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND		10		1	06/11/14 14:23	NN	5590783
Diisopropyl ether	ND		5	150	1	06/11/14 14:23	NN	5590783
Ethanol	ND		100	1000	1	06/11/14 14:23	NN	5590783
t-Butyl alcohol	14		10	1400	1	06/11/14 14:23	NN	5590783
tert-Amyl alcohol	13		10	240	1	06/11/14 14:23	NN	5590783
tert-Amyl methyl ether	ND		5	128	1	06/11/14 14:23	NN	5590783
tert-Butyl ethyl ether	ND		5	47	1	06/11/14 14:23	NN	5590783
tert-Butyl formate	ND		1	100	1	06/11/14 14:23	NN	5590783
1,2-Dichloroethane	ND		5		1	06/11/14 14:23	NN	5590783
Benzene	19		1		1	06/11/14 14:23	NN	5590783
Ethylbenzene	2.3		1		1	06/11/14 14:23	NN	5590783
Methyl tert-butyl ether	16		1		1	06/11/14 14:23	NN	5590783
Naphthalene	ND		5		1	06/11/14 14.23	NN	5590783
Toluene	23		1		1	06/11/14 14:23	NN	5590783
m,p-Xylene	8.7		2		1	06/11/14 14:23	NN	5590783
o-Xylene	7 5		2		1	06/11/14 14:23	NN	5590783
Xylenes,Total	16 2		2		1	06/11/14 14:23	NN	5590783
Surr: 1,2-Dichloroethane-d4	103		% 84-124		1	06/11/14 14:23	NN	5590783
Surr: 4-Bromofluorobenzene	98.6		% 89-111		1	06/11/14 14:23	NN	5590783
Surr. Toluene-d8	103		% 83-115		1	06/11/14 14.23	NN	5590783

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

6/17/2014 4 42 29 PM

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW 28 **Collected:** 05/31/2014 12:08 **Lab Sample ID:** L0043810-05

Site: PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1

Analyses/Method	Result	QUAL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP				**MCL**		**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND		0.021		1	06/07/14 15:23	DF	5583774
Surr: 1-Chloro-2-fluorobenzene	154		% 32-169		1	06/07/14 15:23	DF	5583774

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	06/06/2014 8:30	AVB	1.06

VOLATILE ORGANICS:METHOD 8260B				MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND		10		1	06/11/14 15:21	NN	5590785
Diisopropyl ether	ND		5	150	1	06/11/14 15:21	NN	5590785
Ethanol	ND		100	1000	1	06/11/14 15:21	NN	5590785
t-Butyl alcohol	ND		10	1400	1	06/11/14 15:21	NN	5590785
tert-Amyl alcohol	ND		10	240	1	06/11/14 15:21	NN	5590785
tert-Amyl methyl ether	ND		5	128	1	06/11/14 15:21	NN	5590785
tert-Butyl ethyl ether	ND		5	47	1	06/11/14 15:21	NN	5590785
tert-Butyl formate	ND		1	100	1	06/11/14 15:21	NN	5590785
1,2-Dichloroethane	ND		5		1	06/11/14 15:21	NN	5590785
Benzene	ND		1		1	06/11/14 15:21	NN	5590785
Ethylbenzene	ND		1		1	06/11/14 15:21	NN	5590785
Methyl tert-butyl ether	8.3		1		1	06/11/14 15:21	NN	5590785
Naphthalene	ND		5		1	06/11/14 15:21	NN	5590785
Toluene	ND		1		1	06/11/14 15:21	NN	5590785
m,p-Xylene	ND		2		1	06/11/14 15:21	NN	5590785
o-Xylene	ND		2		1	06/11/14 15:21	NN	5590785
Xylenes,Total	ND		2		1	06/11/14 15:21	NN	5590785
Surr. 1,2-Dichloroethane-d4	103		% 84-124		1	06/11/14 15:21	NN	5590785
Surr: 4-Bromofluorobenzene	101		% 89-111		1	06/11/14 15:21	NN	5590785
Surr: Toluene-d8	103		% 83-115		1	06/11/14 15:21	NN	5590785

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

6/17/2014 4 42 33 PM

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ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: DUP **Collected:** 05/31/2014 14:32 **Lab Sample ID:** L0043810-06

Site: PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1

Analyses/Method	Result	QUAL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP				**MCL**		**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND		0 021		1	06/07/14 16:06	DF	5583776
Surr: 1-Chloro-2-fluorobenzene	163		% 32-169		1	06/07/14 16:06	DF	5583776

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	06/06/2014 8:30	AVB	1.04

VOLATILE ORGANICS:METHOD 8260B				MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND		10		1	06/11/14 14:52	NN	5590784
Diisopropyl ether	6 8		5	150	1	06/11/14 14.52	NN	5590784
Ethanol	ND		100	1000	1	06/11/14 14:52	NN	5590784
t-Butyl alcohol	41		10	1400	1	06/11/14 14:52	NN	5590784
tert-Amyl alcohol	200		10	240	1	06/11/14 14:52	NN	5590784
tert-Amyl methyl ether	ND		5	128	1	06/11/14 14:52	NN	5590784
tert-Butyl ethyl ether	ND		5	47	1	06/11/14 14:52	NN	5590784
tert-Butyl formate	ND		1	100	1	06/11/14 14:52	NN	5590784
1,2-Dichloroethane	ND		5		1	06/11/14 14:52	NN	5590784
Benzene	48		1		1	06/11/14 14:52	NN	5590784
Ethylbenzene	7.3		1		1	06/11/14 14.52	NN	5590784
Methyl tert-butyl ether	48		1		1	06/11/14 14.52	NN	5590784
Naphthalene	9		5		1	06/11/14 14:52	NN	5590784
Toluene	54		1		1	06/11/14 14:52	NN	5590784
m,p-Xylene	48		2		1	06/11/14 14:52	NN	5590784
o-Xylene	25		2		1	06/11/14 14:52	NN	5590784
Xylenes,Total	73		2		1	06/11/14 14:52	NN	5590784
Surr: 1,2-Dichloroethane-d4	102		% 84-124		1	06/11/14 14:52	NN	5590784
Surr: 4-Bromofluorobenzene	104		% 89-111		1	06/11/14 14:52	NN	5590784
Surr: Toluene-d8	100		% 83-115		1	06/11/14 14:52	NN	5590784

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

6/17/2014 4 42 36 PM

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: FIELD BLANK **Collected:** 05/31/2014 17:12 **Lab Sample ID:** L0043810-07

Site: PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1

Analyses/Method	Result	QUAL		Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP					**MCL**		**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND			0.021		1	06/07/14 16:27	DF	5583777
Surr: 1-Chloro-2-fluorobenzene	150		%	32-169		1	06/07/14 16:27	DF	5583777

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	06/06/2014 8:30	AVB	1.07

VOLATILE ORGANICS:METHOD 8260B					MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND			10		1	06/11/14 3:55	SNV	5588491
Diisopropyl ether	ND			5	150	1	06/11/14 3:55	SNV	5588491
Ethanol	ND			100	1000	1	06/11/14 3:55	SNV	5588491
t-Butyl alcohol	ND			10	1400	1	06/11/14 3:55	SNV	5588491
tert-Amyl alcohol	ND			10	240	1	06/11/14 3:55	SNV	5588491
tert-Amyl methyl ether	ND			5	128	1	06/11/14 3:55	SNV	5588491
tert-Butyl ethyl ether	ND			5	47	1	06/11/14 3:55	SNV	5588491
tert-Butyl formate	ND			1	100	1	06/11/14 3:55	SNV	5588491
1,2-Dichloroethane	ND			5		1	06/11/14 3:55	SNV	5588491
Benzene	ND			1		1	06/11/14 3:55	SNV	5588491
Ethylbenzene	ND			1		1	06/11/14 3:55	SNV	5588491
Methyl tert-butyl ether	ND			1		1	06/11/14 3:55	SNV	5588491
Naphthalene	ND			5		1	06/11/14 3:55	SNV	5588491
Toluene	ND			1		1	06/11/14 3:55	SNV	5588491
m,p-Xylene	ND			2		1	06/11/14 3:55	SNV	5588491
o-Xylene	ND			2		1	06/11/14 3:55	SNV	5588491
Xylenes,Total	ND			2		1	06/11/14 3:55	SNV	5588491
Surr: 1,2-Dichloroethane-d4	99.4		%	84-124		1	06/11/14 3:55	SNV	5588491
Surr: 4-Bromofluorobenzene	95 3		%	89-111		1	06/11/14 3:55	SNV	5588491
Surr: Toluene-d8	97.8		%	83-115		1	06/11/14 3:55	SNV	5588491

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

6/17/2014 4 42 38 PM

Version 2.2 - Modified January 16, 2012

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: TRIP BLANK **Collected:** 05/31/2014 0:00 **Lab Sample ID:** L0043810-08

Site: PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1

Analyses/Method	Result	QUAL	Rep.Limit	MCL	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**		
3,3-Dimethyl-1-butanol	ND		10		1	06/10/14 22:46	SNV	5588483
Diisopropyl ether	ND		5	150	1	06/10/14 22:46	SNV	5588483
Ethanol	ND		100	1000	1	06/10/14 22:46	SNV	5588483
t-Butyl alcohol	ND		10	1400	1	06/10/14 22:46	SNV	5588483
tert-Amyl alcohol	ND		10	240	1	06/10/14 22:46	SNV	5588483
tert-Amyl methyl ether	ND		5	128	1	06/10/14 22:46	SNV	5588483
tert-Butyl ethyl ether	ND		5	47	1	06/10/14 22:46	SNV	5588483
tert-Butyl formate	ND		1	100	1	06/10/14 22:46	SNV	5588483
1,2-Dichloroethane	ND		5		1	06/10/14 22:46	SNV	5588483
Benzene	ND		1		1	06/10/14 22:46	SNV	5588483
Ethylbenzene	ND		1		1	06/10/14 22:46	SNV	5588483
Methyl tert-butyl ether	ND		1		1	06/10/14 22:46	SNV	5588483
Naphthalene	ND		5		1	06/10/14 22:46	SNV	5588483
Toluene	ND		1		1	06/10/14 22:46	SNV	5588483
m,p-Xylene	ND		2		1	06/10/14 22:46	SNV	5588483
o-Xylene	ND		2		1	06/10/14 22:46	SNV	5588483
Xylenes,Total	ND		2		1	06/10/14 22:46	SNV	5588483
Surr: 1,2-Dichloroethane-d4	95.2	%	84-124		1	06/10/14 22:46	SNV	5588483
Surr. 4-Bromofluorobenzene	95.5	%	89-111		1	06/10/14 22:46	SNV	5588483
Surr. Toluene-d8	97.8	%	83-115		1	06/10/14 22:46	SNV	5588483

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

6/17/2014 4 42 39 PM

Quality Control Documentation

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

CARDNO ATC

ANDERSON, SC

Analysis: EDB & DBCP
Method: SW8011

WorkOrder: L0043810
Lab Batch ID: 132399

Method Blank

RunID PCBB_140606C-5586531 Units: ug/L
Analysis Date: 06/09/2014 18:04 Analyst. DF
Preparation Date: 06/06/2014 8:30 Prep By AVB Method: E504

Analyte	Result	Rep Limit
1,2-Dibromoethane	ND	0 020
Surr 1-Chloro-2-fluorobenzene	102 3	32-169

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
L0043810-01B	MW 22D
L0043810-02B	MW 23
L0043810-03B	MW 24
L0043810-04B	DMW 1
L0043810-05B	MW 28
L0043810-06B	DUP
L0043810-07B	FIELD BLANK

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: PCBB_140606C-5586532 Units: ug/L
Analysis Date: 06/09/2014 18 46 Analyst: DF
Preparation Date. 06/06/2014 8:30 Prep By. AVB Method: E504

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1,2-Dibromoethane	0.570	0.649	114	0.570	0.643	113	0.9	30	60	140
Surr: 1-Chloro-2-fluorobenzene	143	155	109	143	133	93.4	15 1	30	32	169

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added Control limits do not apply
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

6/17/2014 4 42 41 PM

Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

CARDNO ATC

ANDERSON, SC

Analysis: **Volatile Organics:Method 8260B** **WorkOrder:** **L0043810**
Method: **SW8260B** **Lab Batch ID:** **R335886**

Method Blank

RunID: GCMS1X_140610D-5588482 Units: ug/L
Analysis Date: 06/10/2014 21:49 Analyst: SNV

Analyte	Result	Rep Limit
1,2-Dichloroethane	ND	5.0
3,3-Dimethyl-1-butanol	ND	10
Benzene	ND	1 0
Diisopropyl ether	ND	5 0
Ethanol	ND	100
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	1 0
Naphthalene	ND	5 0
t-Butyl alcohol	ND	10
tert-Amyl alcohol	ND	10
tert-Amyl methyl ether	ND	5 0
tert-Butyl ethyl ether	ND	5.0
tert-Butyl formate	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	2 0
o-Xylene	ND	2 0
Xylenes,Total	ND	2 0
Surr. 1,2-Dichloroethane-d4	96 8	84-124
Surr. 4-Bromofluorobenzene	99 2	89-111
Surr Toluene-d8	99 4	83-115

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
L0043810-01A	MW 22D
L0043810-02A	MW 23
L0043810-03A	MW 24
L0043810-07A	FIELD BLANK
L0043810-08A	TRIP BLANK

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: GCMS1X_140610D-558849 Units: ug/L
Analysis Date: 06/10/2014 20:53 Analyst: SNV

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1,2-Dichloroethane	20.0	18.9	94.7	20.0	19.3	96.7	2.1	10	74	127
3,3-Dimethyl-1-butanol	200	139	69 5 *	200	187	93 6	29.5	30	70	130
Benzene	20.0	19.2	96.1	20.0	18.5	92.5	3.9	10	82	119
Diisopropyl ether	20.0	18 8	94.1	20.0	18.9	94.6	0.5	10	71	126
Ethanol	400	332	82.9	400	391	97.8	16.5	30	70	130

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

6/17/2014 4 42 41 PM

Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

CARDNO ATC

ANDERSON, SC

Analysis: **Volatile Organics:Method 8260B** **WorkOrder:** **L0043810**
Method: **SW8260B** **Lab Batch ID:** **R335886**

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: GCMS1X_140610D-558849 Units: ug/L
Analysis Date 06/10/2014 20:53 Analyst: SNV

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Ethylbenzene	20.0	19 5	97.7	20.0	19.6	98.2	0 5	10	84	117
Methyl tert-butyl ether	20.0	17.9	89.7	20.0	18.2	91.0	1.5	30	75	126
Naphthalene	20 0	20.2	101	20.0	19 2	95.8	5.3	22	74	130
t-Butyl alcohol	200	159	79.4	200	193	96 5	19.4	30	70	130
tert-Amyl alcohol	200	158	79 2	200	193	96.5	19.7	30	70	130
tert-Amyl methyl ether	20.0	19.0	94 8	20.0	19 0	94 8	0.0	11	80	121
tert-Butyl ethyl ether	20 0	17.9	89 7	20 0	19 1	95.3	6.1	10	77	123
tert-Butyl formate	20.0	18.5	92.4	20.0	18.9	94.5	2.3	14	70	130
Toluene	20.0	20 1	101	20.0	20.3	101	0.8	10	80	121
m,p-Xylene	40.0	40 6	101	40.0	38.5	96.2	5.3	10	82	121
o-Xylene	20 0	20 1	101	20.0	19.4	97.0	3 7	10	84	119
Xylenes,Total	60 0	60 7	101	60.0	57.9	96.5	4 8	9	81	122
Surr. 1,2-Dichloroethane-d4	50.0	49.3	98 6	50.0	50.9	102	3.2	30	84	124
Surr: 4-Bromofluorobenzene	50.0	49.4	98 8	50.0	48 9	97.7	1.1	30	89	111
Surr: Toluene-d8	50.0	48.9	97.7	50.0	48 5	96.9	0.8	30	83	115

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: L0043811-02
RunID: GCMS1X_140610D-558849 Units: ug/L
Analysis Date: 06/11/2014 6:44 Analyst: SNV

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
1,2-Dichloroethane	ND	100	101	101	100	100	100	1.02	10	74	127
3,3-Dimethyl-1-butanol	ND	1000	780	78.0	1000	744	74.4	4.72	37	70	130

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

6/17/2014 4 42 41 PM

Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

CARDNO ATC

ANDERSON, SC

Analysis: Volatile Organics:Method 8260B **WorkOrder:** L0043810
Method: SW8260B **Lab Batch ID:** R335886

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: L0043811-02
RunID GCMS1X_140610D-558849 Units: ug/L
Analysis Date: 06/11/2014 6:44 Analyst. SNV

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	100	98 3	98 3	100	97.3	97.3	1.07	10	82	119
Diisopropyl ether	ND	100	92.8	92 8	100	92.9	92.9	0 199	10	71	126
Ethanol	ND	2000	1950	97 5	2000	1680	84.2	14.6	40	70	130
Ethylbenzene	ND	100	96.9	96.9	100	98.9	98.9	2.09	10	84	117
Methyl tert-butyl ether	ND	100	92.3	91.3	100	91.3	90 3	1.13	40	75	126
Naphthalene	ND	100	105	105	100	99.7	99.7	5.04	22	74	130
t-Butyl alcohol	ND	1000	946	94.6	1000	847	84.7	11.1	40	70	130
tert-Amyl alcohol	ND	1000	989	98.9	1000	897	89.7	9.73	35	70	130
tert-Amyl methyl ether	ND	100	96 2	96.2	100	93.4	93.4	2.96	11	80	121
tert-Butyl ethyl ether	ND	100	92.1	92.1	100	92.8	92.8	0.815	10	77	123
tert-Butyl formate	ND	100	0	0 *	100	0	0 *	0	14	70	130
Toluene	ND	100	103	103	100	101	101	2.26	10	80	121
m,p-Xylene	ND	200	194	96.8	200	196	97.8	1.06	10	82	121
o-Xylene	ND	100	98 2	98.2	100	98.7	98.7	0.418	10	84	119
Xylenes,Total	ND	300	292 2	97 29	300	294.7	98.11	0.8415	9	81	122
Surr: 1,2-Dichloroethane-d4	ND	250	247	98.8	250	246	98.3	0.517	30	84	124
Surr 4-Bromofluorobenzene	ND	250	254	102	250	244	97 6	4.14	30	89	111
Surr. Toluene-d8	ND	250	254	102	250	253	101	0.314	30	83	115

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added Control limits do not apply.
TNTC - Too numerous to count
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

6/17/2014 4 42 41 PM

Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

CARDNO ATC

ANDERSON, SC

Analysis: Volatile Organics:Method 8260B
Method: SW8260B
WorkOrder: L0043810
Lab Batch ID: R335997

Method Blank

RunID: GCMS1Q_140611F-5590782 Units: ug/L
Analysis Date: 06/11/2014 12:29 Analyst: NN

Analyte	Result	Rep Limit
1,2-Dichloroethane	ND	5 0
3,3-Dimethyl-1-butanol	ND	10
Benzene	ND	1 0
Diisopropyl ether	ND	5 0
Ethanol	ND	100
Ethylbenzene	ND	1 0
Methyl tert-butyl ether	ND	1 0
Naphthalene	ND	5 0
t-Butyl alcohol	ND	10
tert-Amyl alcohol	ND	10
tert-Amyl methyl ether	ND	5 0
tert-Butyl ethyl ether	ND	5 0
tert-Butyl formate	ND	1 0
Toluene	ND	1 0
m,p-Xylene	ND	2 0
o-Xylene	ND	2 0
Xylenes,Total	ND	2.0
Surr 1,2-Dichloroethane-d4	104 7	84-124
Surr 4-Bromofluorobenzene	101 2	89-111
Surr Toluene-d8	100 6	83-115

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
L0043810-03A	MW 24
L0043810-04A	DMW 1
L0043810-05A	MW 28
L0043810-06A	DUP

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: GCMS1Q_140611F-559078 Units: ug/L
Analysis Date: 06/11/2014 11.32 Analyst. NN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1,2-Dichloroethane	20.0	20 4	102	20.0	21.2	106	3.9	10	74	127
3,3-Dimethyl-1-butanol	200	186	92 9	200	208	104	11.4	30	70	130
Benzene	20.0	22.1	111	20.0	21.3	106	3.8	10	82	119
Diisopropyl ether	20.0	21.0	105	20.0	21.3	107	1.4	10	71	126
Ethanol	400	430	107	400	480	120	11 0	30	70	130

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules

6/17/2014 4 42 41 PM

Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

CARDNO ATC

ANDERSON, SC

Analysis: Volatile Organics:Method 8260B **WorkOrder:** L0043810
Method: SW8260B **Lab Batch ID:** R335997

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID GCMS1Q_140611F-559078 Units: ug/L
Analysis Date: 06/11/2014 11:32 Analyst: NN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Ethylbenzene	20 0	21 9	110	20 0	21 9	109	0.3	10	84	117
Methyl tert-butyl ether	20.0	20.4	102	20.0	20 9	105	2 4	30	75	126
Naphthalene	20.0	20.5	102	20 0	21 3	107	4.0	22	74	130
t-Butyl alcohol	200	194	96.8	200	222	111	13 9	30	70	130
tert-Amyl alcohol	200	205	103	200	213	107	3.9	30	70	130
tert-Amyl methyl ether	20.0	19.7	98 6	20.0	20 2	101	2.4	11	80	121
tert-Butyl ethyl ether	20.0	21.6	108	20.0	22.0	110	2.2	10	77	123
tert-Butyl formate	20.0	19.5	97.7	20.0	20.1	101	3.0	14	70	130
Toluene	20.0	21.1	106	20.0	21.2	106	0.4	10	80	121
m,p-Xylene	40.0	45 3	113	40.0	45.5	114	0 3	10	82	121
o-Xylene	20.0	21.1	106	20.0	21.6	108	2 1	10	84	119
Xylenes,Total	60 0	66 4	111	60 0	67.1	112	0.9	9	81	122
Surr: 1,2-Dichloroethane-d4	50.0	52.5	105	50.0	52 3	105	0.5	30	84	124
Surr: 4-Bromofluorobenzene	50.0	49.8	99 6	50.0	51 6	103	3.6	30	89	111
Surr: Toluene-d8	50 0	51.0	102	50.0	49.8	99 6	2.5	30	83	115

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: L0043817-04
RunID GCMS1Q_140611F-559078 Units. ug/L
Analysis Date: 06/11/2014 21:59 Analyst· NN

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
1,2-Dichloroethane	ND	100	110	105	100	108	103	1 28	10	74	127
3,3-Dimethyl-1-butanol	ND	1000	809	80 9	1000	777	77.7	4.06	37	70	130

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

6/17/2014 4 42 41 PM

Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

CARDNO ATC

ANDERSON, SC

Analysis: Volatile Organics:Method 8260B
Method: SW8260B

WorkOrder: L0043810
Lab Batch ID: R335997

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked. L0043817-04
RunID GCMS1Q_140611F-559078 Units: ug/L
Analysis Date: 06/11/2014 21.59 Analyst. NN

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	337	100	595	258 *	100	586	249 *	1 57	10	82	119
Diisopropyl ether	ND	100	98.9	98.9	100	95 1	95.1	3 94	10	71	126
Ethanol	ND	2000	2010	101	2000	1930	96.7	3.90	40	70	130
Ethylbenzene	ND	100	108	108	100	102	102	5.86	10	84	117
Methyl tert-butyl ether	ND	100	97.5	97.5	100	95.8	95.8	1.83	40	75	126
Naphthalene	ND	100	179	178 *	100	110	110	47.4 *	22	74	130
t-Butyl alcohol	ND	1000	970	97 0	1000	886	88.6	9.06	40	70	130
tert-Amyl alcohol	ND	1000	921	92 1	1000	861	86.1	6.71	35	70	130
tert-Amyl methyl ether	ND	100	96.4	96.4	100	95.7	95.7	0.709	11	80	121
tert-Butyl ethyl ether	ND	100	99.7	99.7	100	98.5	98.5	1.16	10	77	123
tert-Butyl formate	ND	100	0	0 *	100	0	0 *	0	14	70	130
Toluene	ND	100	101	101	100	99 3	98.7	1.84	10	80	121
m,p-Xylene	ND	200	224	112	200	214	107	4.59	10	82	121
o-Xylene	ND	100	103	103	100	99.8	99.6	2.95	10	84	119
Xylenes,Total	ND	300	327	109	300	314	105	4.07	9	81	122
Surr: 1,2-Dichloroethane-d4	ND	250	253	101	250	252	101	0 355	30	84	124
Surr: 4-Bromofluorobenzene	ND	250	253	101	250	255	102	0.557	30	89	111
Surr: Toluene-d8	ND	250	253	101	250	251	100	0.784	30	83	115

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

6/17/2014 4 42 41 PM

Version 2.1 - Modified February 11, 2011

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

CARDNO ATC

ANDERSON, SC

Analysis: Volatile Organics:Method 8260B
Method: SW8260B
WorkOrder: L0043810
Lab Batch ID: R336062

Method Blank

RunID: GCMS1Q_140612C-5592247 Units ug/L
Analysis Date: 06/12/2014 14:50 Analyst. NN

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
L0043810-03A	MW 24

Analyte	Result	Rep Limit
Methyl tert-butyl ether	ND	1.0
Surr 1,2-Dichloroethane-d4	102 1	84-124
Surr 4-Bromofluorobenzene	98 6	89-111
Surr Toluene-d8	102 9	83-115

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: GCMS1Q_140612C-559224 Units: ug/L
Analysis Date: 06/12/2014 13:53 Analyst: NN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Methyl tert-butyl ether	20.0	19.9	99 5	20 0	19 9	99.4	0.1	30	75	126
Surr: 1,2-Dichloroethane-d4	50.0	52.0	104	50.0	52.4	105	0.9	30	84	124
Surr. 4-Bromofluorobenzene	50.0	50 8	102	50.0	50.6	101	0.5	30	89	111
Surr: Toluene-d8	50.0	50 9	102	50.0	50.5	101	0.7	30	83	115

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

6/17/2014 4 42 41 PM

Version 2.1 - Modified February 11, 2011

Sample Receipt Checklist
And
Chain of Custody

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Sample Receipt Checklist

Workorder:	**L0043810**	Received By:	**LKK**
Date and Time Received:	**6/5/2014 10:00:00 AM**	Carrier name:	**FedEx-Pri 1 Day AM**
Temperature:	**2.5°C**	Chilled by	**Water Ice**

1.	**Shipping container/cooler in good condition?**	Yes ☑	No ☐	Not Present ☐
2.	**Custody seals intact on shippping container/cooler?**	Yes ☑	No ☐	Not Present ☐
3.	**Custody seals intact on sample bottles?**	Yes ☐	No ☐	Not Present ☑
4.	**Chain of custody present?**	Yes ☑	No ☐	
5.	**Chain of custody signed when relinquished and received?**	Yes ☑	No ☐	
6.	**Chain of custody agrees with sample labels?**	Yes ☑	No ☐	
7.	**Samples in proper container/bottle?**	Yes ☑	No ☐	
8.	**Sample containers intact?**	Yes ☑	No ☐	
9.	**Sufficient sample volume for indicated test?**	Yes ☑	No ☐	
10.	**All samples received within holding time?**	Yes ☑	No ☐	
11.	**Container/Temp Blank temperature in compliance?**	Yes ☑	No ☐	
12.	**Water - VOA vials have zero headspace?**	Yes ☑	No ☐	VOA Vials Not Present ☐
13.	**Water - Preservation checked upon receipt (except VOA*)?**	Yes ☐	No ☐	Not Applicable ☑

***VOA Preservation Checked After Sample Analysis**

Accutest Representative: _____ **Contact Date & Time:** _____

Client Name Contacted: _____

Non Conformance Issues: _____

Client Instructions: _____

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

Accutest Gulf Coast
500 Ambassador Caffery Pkwy, Scott, LA 70583
TEL.337-237-4775 FAX: 337-237-7838
www.accutest.com

LSR-F005.00

FED-EX Tracking #:
Bottle Order Control #: L0043810
Accutest Quote #:
Accutest Job #:

Client / Reporting Information

Company Name: CARDNO ATC
Street Address: 400 NORTHEAST DRIVE
City / State / Zip: COLA. SC 29203
Project Contact: JESSE KEEFFE
E-mail:
Phone #:
Fax #:
Sampler(s) Name(s): BRADEN BELDING
Phone #:

Project Information

Project Name: PANTRY # 585 (DHEC UST # 12458)
Street: 1602 E. GREENVILLE ST
City / State: ANDERSON, SC
Project #:
Client Purchase Order #:
Project Manager: JESSE KEEFFE

Billing Information (If different from Report to)
Company Name:
Street Address:
City / State / Zip:
Attention:

Requested Analyses

Accutest Sample #	Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZnAc/NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	TSP	NaHSO4	EnCORE	OTHER	BTEX/NAPTH/MTBE 8260 B	8 OXYS	1, 2 DCA	ETHANOL	EDB 8011							LAB USE ONLY
	mw 22 D	5/31	16:45	BB	GW	6	X												3				3							6
	mw 23	5/31	14:27																											6
	mw 24	5/31	15:50																											6
	DMW 1	5/31	16:59																											6
	mw 28	5/31	12:08																											6
	DUP	5/31	14:32																											6
	FIELD BLANK	5/31	17:12																											6
	TRIP BLANK	5/31	8:00			3																								3

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Turnaround Time (Business days)

- [x] Standard
- [ ] 5 Day RUSH
- [ ] 4 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

~~RM-16~~ Kidd 6-5-14
RM-16 (13)
RM-49 (13)

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler	Date Time	Received By	Relinquished By	Date Time	Received By
1 Braden Belding	6/4/14 17:00	1 FEDEX 6/4/14 17:00	2 Fedex 6-5-14	6-5-14 9:20	2 Accutest Driver OM
3 Accutest Driver	6-5-14 10:00	3 Kaylyn Kidd 6-5-14 10:00	4		4
5		5			

Custody Seals: CS/OK
Intact / Not intact
Preserved where applicable: B
On Ice: B
Cooler Temp.: 2.5 Div A-10

From: (803) 735-0003
Braden Belding
ATC Associates
400 Northeast Drive, Unit Q

Columbia, SC 29203

Origin ID: USCA

FedEx Express

Ship Date: 04JUN14
ActWgt: 50 0 LB
CAD: 8790804/INET3490

Delivery Address Bar Code

SHIP TO: (337) 237-4775 BILL RECIPIENT

Attn: Sample Management
Accutest Labs
500 AMBASSADOR CAFFERY PKWY

SCOTT, LA 70583

Ref # Pantry #585 Samples
Invoice #
PO #
Dept #

THU - 05 JUN AA
STANDARD OVERNIGHT

TRK# 0201 **7701 8734 3034**

70583
LA-US
LFT

XH LFTA

After printing this label.
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

APPENDIX C

DISPOSAL CERTIFICATE

Cardno ATC
Shaping the Future

Cardno ATC

400 Northeast Drive
Unit Q
Columbia, SC 29203

Phone +1 803 735 0003
Fax +1 803 735 0443
www.cardno com

www.cardnoatc.com

July 1, 2014

Re: Treatment of Purge Water
Former Pantry #585 / 81 Food Mart
Anderson, South Carolina
UST Permit #12458

To Whom It May Concern:

Cardno ATC submits this letter as certification of treatment of purge water at the **Former Pantry #585 / 81 Food Mart** facility complied with the adsorption use of portable activated carbon units for the treatment of small volumes of suspected petroleum hydrocarbon contaminated groundwater. Water is treated on site with pour through\up flow treatment container filled with activated carbon. The carbon will be replaced or reactivated at 8,000 gallons of treated water or once total organic compound exceed manufacture conditions of 3.5 pounds. Data concerning gallons treated or adsorption capacity is available upon request. Should you have any questions or require additional information, please contact me at 735-0003.

The water obtained from development\sampling the groundwater monitoring wells at the site was treated with activated carbon. A total of **247.75** gallons of water was treated at the site on May 12, 13, and 31, 2014.

No free product was detected in any of the well water to be treated.

Cardno ATC maintains records of treated water.

The carbon will be replaced or reactivated every 8,000 gallons.

Petroleum hydrocarbons analytical results from the site wells report Benzene concentrations at 23,000 parts per billion (ppb) or less and total BTEX concentrations at 55,100 ppb or less.

Recommendations issued by SCDHEC and the manufacturer have and will be followed.

Development\sampling purge water from all wells is mixed before treatment with the activated carbon.

Cardno ATC

Braden Belding

Braden Belding
Staff Geologist

APPENDIX D

SCDHEC QAPP APPENDIX K

Contractor Verification Checklist

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

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

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

Explanation for missing and incomplete information

The directive and QAPP for this site involves the work done for a Groundwater Monitoring Report. Any information that was not required or approved in the QAPP for the scope of work was not included.

APPENDIX E

SCDHEC QAPP APPENDIX M

UST Permit # 12458

PANTRY 585 (81 FOOD MART) (Facility Name)

Date	Current Status	Deficiency	Corrective Action Taken	Date Deficiency resolved
7/1/14	RPD % BETWEEN QA DUPLICATES AND PARENT SAMPLES	BENZENE, TOLUENE, ETHYLBENZENE, MTBE, DIISOPROPYL ETHER, AND TERT-AMYL ALCOHOL ABOVE 20% RPD BETWEEN DUPLICATES AND THE PARENT SAMPLES TAKEN	ASKED THE LAB TO CHECK THE VALIDITY OF THEIR ANALYSIS; THE LAB FOUND NO ERRORS OR INCONSISTANCIES IN THIER REPORTING	7/9/14

Comments:

Cardno ATC
Shaping the Future

July 23, 2014

Mr. Read S. Miner, P.G., Hydrogeologist
South Carolina Department of Health and Environmental Control
Corrective Action Section
Bureau of Land and Waste Management
UST Management Division
2600 Bull Street
Columbia, South Carolina 29201

UST DIVISION JUL 25 2014

UST DOCKETING

RE: Groundwater Monitoring and Well Pad Repair Report
Former Pantry #585 / 81 Food Mart
1502 East Greenville Highway, Anderson, South Carolina
Anderson County
UST Permit ID #12458; CA #47670
Cardno ATC Project No. 14.25384.0585

Dear Mr. Miner:

Cardno, on behalf of The Pantry Inc., is submitting the text portion of the revised Groundwater Monitoring Report for the **Former Pantry #585 / 81 Food Mart**. This revised report is in accordance with the South Carolina Department of Health and Environmental Control (SCDHEC) directive letter dated April 2, 2014, and documents investigative procedures, field activities, and laboratory analytical results for the May 12, 13, and 31, 2014 groundwater sampling event. Please replace the report text of the July 1, 2014 report with this text and replace the initial Appendix K with this revised appendix K.

If you have any questions or require additional information, please contact the Cardno ATC project manager for the site, Jesse Keeffe, at (803) 735-0003.

Sincerely,
Cardno

Jesse L. Keeffe, Jr., P.G. #2308
Project Manager
for Cardno ATC
Direct Line +1 866 735 0003 ext. 109
Email: jesse.keeffe@cardno.com

cc: Mr. Brent Puzak, Director of Environmental Compliance, The Pantry, Inc.

Cardno ATC
Shaping the Future

Cardno
400 Northeast Drive
Unit Q
Columbia, SC 29203

Phone +1 803 735 0003
Fax +1 803 735 0443
www.cardno.com

July 22, 2014

Mr. Read S. Miner, P.G., Hydrogeologist
South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management
UST Management Division Corrective Action Section
2600 Bull Street
Columbia, South Carolina 29201

RE: Groundwater Monitoring and Well Pad Repair Report(revised)
Former Pantry #585 / 81 Food Mart
1502 East Greenville Highway, Anderson, South Carolina
Anderson County
UST Permit ID #12458; CA #47670
Cardno Project No. 14.25384.0585

Dear Mr. Miner:

Cardno, on behalf of The Pantry Inc., is submitting the enclosed Groundwater Monitoring Report for the **Former Pantry #585 / 81 Food Mart**. This report is in accordance with the South Carolina Department of Health and Environmental Control (SCDHEC) directive letter dated April 2, 2014, and documents investigative procedures, field activities, and laboratory analytical results for the May 12, 13, and 31, 2014 groundwater sampling event. If you have any questions or require additional information, please contact the Cardno project manager for the site, Jesse Keeffe, at (803) 735-0003.

Sincerely,
Cardno

Braden Belding
Staff Geologist
for Cardno
Direct Line +1 866 735 0003 ext. 107
Email: braden.belding@cardno.com

Jesse L. Keeffe, Jr., P.G. #2308
Project Manager
for Cardno
Direct Line +1 866 735 0003 ext. 109
Email: jesse.keeffe@cardno.com

cc: Mr. Brent Puzak, Director of Environmental Compliance, The Pantry, Inc.

UST Site # 12458
July 22, 2014

Cardno ATC
Shaping the Future

Groundwater Monitoring Report
Former Pantry #585 / 81 Food Mart
1502 East Greenville Highway, Anderson, South Carolina
Anderson County
UST Permit ID #12458; CA #47670
Cardno ATC Project No. 14.25384.0585

Prepared By:

Braden Belding
Staff Geologist

Jesse Lee Keeffe, P.G. #2308
Project Manager

JESSE L. KEEFFE, Jr.
REGISTERED
No. 2308
SOUTH CAROLINA
PROFESSIONAL GEOLOGIST

Submitted To:

State of South Carolina
Department of Health and Environmental Control
Bureau of Land and Waste Management
UST Management Division
Corrective Action Section
2600 Bull Street
Columbia, South Carolina 29201

On Behalf Of:

The Pantry, Inc.
Attn: Brent Puzak
P.O. Box 1410
Cary, North Carolina
Phone: (919) 774-6700

Submitted By:

Cardno
400 Northeast Drive, Unit Q
Columbia, South Carolina 29203
Phone: (803) 735-0003
Fax: (803) 735-0443

Underground Storage Tank Site Rehabilitation Contractor Certification No. 313

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APPENDICES

Appendix A Field Data Information Sheets
Appendix B Laboratory Analytical Results
Appendix C Disposal Certificate
Appendix D SCDHEC QAPP Appendix K (Contractor Verification Checklist)
Appendix E SCDHEC QAPP Appendix M (Project Status Update)

1.0 INTRODUCTION

Cardno (formerly Cardno ATC) was retained by The Pantry, Inc. to perform environmental consulting services at the Former Pantry #585 / 81 Food Mart (site). Cardno has completed monitoring, sampling, and well pad repair activities at the site located at 1502 East Greenville Highway, Anderson, Anderson County, South Carolina (UST Permit #12458). A site topographic map is presented as ***Figure 1*** and a site map depicting pertinent features is presented as ***Figure 2***. The activities were authorized by the South Carolina Department of Health and Environmental Control's (SCDHEC) issuance of a sampling directive for the site dated April 2, 2013. The scope of services included a groundwater sampling event, laboratory testing, and report preparation. The results of the groundwater sampling event, along with recommendations, are included herein.

2.0 SITE DESCRIPTION

2.1 Site Characterization

The site is currently operating as a medical laboratory with underground storage tanks (USTs) having been removed. The site is owned by Dbouk Wajda and Joumana of 1502 East Greenville Highway, Anderson, South Carolina (Parcel number 1480902006). The site is located at the intersection of S.C. Highway 81 and McLees Road in Anderson, Anderson County, South Carolina. The surrounding area includes developed commercial properties and a residential property to the east of the site.

2.2 Site Background

The release was reported on November 10, 1992. Following confirmation of the release, soil and groundwater assessments were conducted. Most recently, SCDHEC issued a directive for the preparation of a Quality Assurance Program Plan (QAPP) contractor addendum (QAPPA) for a comprehensive sampling event. On March 26, 2014, Cardno ATC submitted the QAPPA which was approved by SCDHEC on March 28, 2014. On April 2, 2014, SCDHEC issued a Groundwater Sampling Directive requesting the completion of a groundwater sampling event at the site. Per SCDHEC's request, this report documents a groundwater sampling event conducted on May 12, 13, and 31, 2014.

2.3 Well Pad Maintenance

On May 31, 2014, Cardno completed work to find and repair monitoring wells onsite which had been either damaged or concealed by concrete paving. Monitoring Wells 12458 DMW-1 and 12458 MW-22D were found approximately a foot under the concrete parking lot. These wells were raised to surface grade and their pads were repaired. Monitoring Wells 12458 MW-23 and 12458 MW-24 had broken concrete inside the well vault restricting access to the casing. The concrete was removed and the well pad was repaired or replaced as appropriate. However, monitoring wells 12458 MW-10, 12458 MW-29, and 12458 MW-31 could not be located during this event due to false magntometer readings caused by ¾" steel rebar within the concrete pavement.

3.0 GROUNDWATER CHARACTERIZATION

3.1 Groundwater Levels

On May 12, 13, and 31, 2014, groundwater levels were gauged in monitoring wells 12458 MW-PL-1, 12458 MW-PL-2, 12458 MW-PL-3, 12458 MW-1, 12458 MW-2, 12458 MW-3, 12458 MW-4, 12458 MW-5, 12458 MW-6, 12458 MW-7, 12458 MW-8, 12458 MW-9, 12458 MW-11, 12458 MW-12, 12458 MW-13, 12458 MW-14, 12458 MW-15, 12458 MW-16, 12458 MW-17, 12458 MW-18D, 12458 MW-19D, 12458 MW-20D,12458 MW-21D, 12458 MW-22D, 12458 MW-23, 12458 MW-24, 12458 MW-25, 12458 MW-26, 12458 MW-27, 12458 MW-28, 12458 MW-30, 12458 DMW-1, 12458 DMW-2, 12458 DMW-3, 12458 KMO-3, 12458 KMO-5, 12458 KMO-6, 12458 KMO-10, 12458 KMO-11, 12458 KMO-12, 12458 KMO-17, and 12458 KMO-18. An oil/water interface probe was used to measure the depths to water and free-phase product, which was present at the time of the gauging event in monitoring wells 12458 MW-1, 12458 MW-5, 12458 MW-6, 12458 MW-8, 12458 MW-9, 12458 MW-11, and 12458 MW-30 (with an approximate thickness of 0.46, 1.53, 0.65, 0.25, 0.49, 0.23, and 1.88 feet, respectively). Monitoring wells 12458 MW-10, 12458 MW-29, and 12458 MW-31 could not be located due to the steel rebar in the concrete. Monitoring well 12458 DMW-4 also could not be located and appeared to have been destroyed. Depths were measured from the top of the well casings. Groundwater depths were subtracted from elevations set at the top of each well's casing, referenced to an arbitrary datum of 100.00 feet, to establish groundwater elevations. The locations of the monitoring wells are shown in ***Figure 2***. Monitoring well construction details and current groundwater elevation data are included in ***Table 1***.

A groundwater elevation contour map based on the May 12 and 13, 2014 data is presented as ***Figure 3***. (Data from May 31, 2014 were not utilized in the groundwater flow map construction.) Groundwater flow direction was interpreted to be in a south to southwestern direction across the site. The horizontal hydraulic gradient as measured between monitoring wells 12458 KMO-6 and 12458 KMO-11 was estimated to be 0.055 feet per foot.

3.2 Groundwater Quality

On May 12, 13, and 31, 2014, groundwater samples were collected from monitoring wells 12458 MW-PL-1, 12458 MW-PL-2, 12458 MW-PL-3, 12458 MW-2, 12458 MW-3, 12458 MW-4, 12458 MW-7, 12458 MW-12, 12458 MW-13, 12458 MW-14, 12458 MW-15, 12458 MW-16, 12458 MW-17, 12458 MW-18D, 12458 MW-19D, 12458 MW-20D, 12458 MW-21D, 12458 MW-25, 12458 MW-26, 12458 MW-27, 12458 MW-28, 12458 DMW-2, 12458 DMW-3, 12458 KMO-3, 12458 KMO-5, 12458 KMO-6, 12458 KMO-10, 12458 KMO-11, 12458 KMO-12, 12458 KMO-17, and 12458 KMO-18. Groundwater samples were collected from monitoring wells 12458 MW-22D, 12458 MW-23, 12458 MW-24, and 12458 DMW-1 on May 31, 2014 (after the missing well locating and well pad repair/replacement activities).

Disposable polyethylene bailers were used for the purging and collection of the water samples from monitoring wells. The groundwater monitoring wells were purged of three casing volumes, bailed for dryness, or purged until field parameters varied less than 10% prior to sample collection. During purging and prior to sample collection, Cardno collected pH, specific conductivity, water temperature, and dissolved oxygen measurements. These measurements for each well are recorded in the field data information sheets included in ***Appendix A***. Disposable nitrile gloves were used to maintain sample integrity during the sampling process.

The groundwater and quality assurance samples were transported under chain of custody to Accutest Laboratories [500 Ambassador Caffery Parkway, Scott, Louisiana 70583, South Carolina Laboratory Certification Number 73004001, (337) 237-4775]. The groundwater samples were analyzed for the volatile organic compounds benzene, toluene, ethylbenzene, total xylenes (BTEX), methyl tert-butyl ether (MTBE), naphthalene, 1,2-dichloroethane (1,2-DCA) and the 8 oxygenates by EPA Method 8260B; and additionally analyzed for 1,2-dibromoethane (EDB) by EPA method 8011.

Copies of the laboratory analytical results for groundwater quality and chain-of-custody documentation are included in ***Appendix B***.

Groundwater analytical results for the May 12, 13, and 31, 2014 sampling event are summarized in ***Table 2***. The groundwater samples with CoCs that exceeded the SCDHEC RBSLs are summarized as follows:

- Benzene — 12458 MW-12, 12458 MW-13, 12458 MW-17, 12458 MW-23, 12458 MW-24, 12458 MW-25, 12458 MW-27, 12458 DMW-1, 12458 DMW-2, 12458 KMO-3, and 12458 KMO-17;
- Toluene — 12458 MW-12, 12458 MW-17, and 12458 MW-27;
- Ethylbenzene — 12458 MW-12, 12458 MW-13, 12458 MW-17, and 12458 MW-27;
- Naphthalene — 12458 MW-12, 12458 MW-13, 12458 MW-17, 12458 MW-24, 12458 MW-25, 12458 MW-27, and 12458 KMO-17;
- MTBE — 12458 MW-12, 12458 MW-23, 12458 MW-24, 12458 MW-27, and 12458 KMO-3;
- Diisopropyl ether — 12458 MW-12 and 12458 MW-24;
- Tert-Butyl Alcohol — 12458 MW-12;
- Tert-Amyl Alcohol — 12458 MW-12, 12458 MW-13, 12458 MW-17, 12458 MW-23, 12458 MW-24, 12458 MW-25, and 12458 MW-27.

A chemicals of concern (CoC) in groundwater map is included as ***Figure 4***. Historical groundwater analytical results are summarized in ***Table 3***. All purge water was filtered through a granular activated carbon unit prior to proper disposal. A waste disposal certificate for the purge water is included in ***Appendix C***.

4.0 DATA VALIDATION AND USABILITY

4.1 Data Validation

To ensure adherence to the methodologies described in the QAPPA, a contractor data verification checklist (SCDHEC Programmatic QAPP Appendix K) was completed and is included in ***Appendix D.***

4.2 Quality Assurance Analysis

The project sample design, field procedures, and laboratory data were reviewed for quality assurance and data usability using the six data quality indicators (DQIs) described in Section A7 of the SCDHEC Programmatic QAPP requirements. The results of the quality assurance analysis are described below.

4.3 Precision

The precision of the laboratory data was evaluated by comparing the relative percent difference (RPD) between using a sample and a field duplicate sample. The sample locations were selected based on previous analytical results. Field duplicate sample DUP-1 was collected from monitoring well 12458 MW-17 on May 12, 2014, field duplicate sample DUP-2 was collected from monitoring well 12458 MW-12 on May 13, 2014, and field duplicate sample DUP was collected from monitoring well 12458 MW-23 on May 31, 2014. All duplicates were submitted for analysis of the same method 8260B and 8011 constituents as the original samples. The RPD was calculated using the formula:

$$PD\ (\%) = Absolute\ value\ of\ \left(\frac{(C_S - C_D)}{((C_S - C_D)/2)}\right) x\ 100$$

Where: C_S = Concentration of the sample

C_D = Concentration of the duplicate sample

The RPDs were compared to the limits established in Appendix E of the SCDHEC Programmatic QAPP. The results of the Precision Analysis are included in ***Table 4***. The results indicate that the RPD limit of 20% was exceeded between 12458 MW-23 and DUP for benzene (34%), toluene

(88%), ethylbenzene (22%), MTBE (53%), Di-isopropyl Ether (69%), and tert-Amyl Alcohol (37%). The RPD limit was exceeded between 12458 MW-17 and DUP-1 for tert-Amyl Alcohol (21%) and between 12458 MW-12 and DUP-2 for tert-Butyl Alcohol (24%). In addition, 1,2-DCA was at a reported concentration of 5,000 µg/L in sample 12458 MW-17 but the sample duplicate concentration for 1,2-DCA was reported at less than 500 µg/L (<500 µg/L). Both of these required a substantial dilution for quantification. As other wells with as high or higher BTEX concentrations did not contain detectable levels of 1,2-DCA, it is considered likely that this could be a possible misinterpretation by the laboratory and we have addressed this with the laboratory. Further monitoring will determine whether this is the case. Please see ***Appendix E*** for the Project Status Update Form regarding the exceeded the RPD limit for the respective chemicals of concern.

4.4 Bias

Bias analysis of the data can indicate accuracy of the laboratory measurement system. The results of the analysis of field and trip blanks associated with the different sample dates indicate that there were no sources of error in the sampling process, preservation, handling, sample preparation and analytical techniques. The results of the bias analysis of the field and trip blanks are included in ***Table 4***.

4.5 Representativeness

The site monitoring well network was designed to allow representative samples to be collected from the site and the surrounding area. Field personnel have been instructed to log data, label containers, and enter samples on the chains-of-custody immediately upon collection to reduce potential for sample location or other representativeness errors. Proper preservation techniques, including preservative use and immediate icing of samples are also employed. The laboratory reported that samples were received within the proper temperature range inn accordance with the QAPPA. Samples were collected and analyzed in accordance with the QAPPA. The data collected and presented in this report meet the QAPP criteria for representativeness.

4.6 Completeness

The dataset meets the completeness criteria based on the purpose of the sampling event because each available monitoring well that did not contain free product and which could be located was

sampled. The purpose of the sampling event was to monitoring the petroleum impact to groundwater.

4.7 Comparability

The results of laboratory analysis of groundwater at the site between November 2000 and May 31, 2014 are included in this report. The samples were collected using the same field protocols, analyzed using the same EPA Methods, and the data is reported in micrograms per Liter (µg/L) to allow for easy comparison. In general, trends of impact conditions show that effects of natural migration and attenuation of impact are consistent with a petroleum release in the South Carolina geographic setting. Concentrations between individual monitoring events show modest changes reflective of natural attenuation or reasonable data fluctuations from sorption and desorption effects during water level changes or from other natural variations. The comparability criteria have generally been met.

4.8 Method Sensitivity

Laboratory method detection limits and reporting limits were reviewed and compared to the limits established in Appendix E of the SCDHEC Programmatic QAPP. The results of the Method Sensitivity analysis are included in ***Table 4***. The analytical dataset met the QAPP sensitivity limits. The analytical dataset met the QAPP sensitivity limits except where substantial sample dilutions were required, such as for the samples from 12458 MW-12, 12458-MW-13, 12458 MW-17, 12458-MW-24, and 12458 MW-27.

5.0 SUMMARY

During this reporting period Cardno conducted monitoring well sampling at the site. Based on field activities and laboratory results Cardno concludes the following:

- Groundwater flow direction was in a south to southwestern direction across the site with an estimated hydraulic gradient of 0.055 feet per foot;
- Free product was detected during the May 12, 13, and 31, 2014 sampling event in monitoring wells 12458 MW-1 (0.46 ft.), 12458 MW-5 (1.53 ft.), 12458 MW-6 (0.65 ft.), 12458 MW-8 (0.25 ft.), 12458 MW-9 (0.49 ft.), 12458 MW-11 (0.23 ft.), and 12458 MW-30 (1.88 ft.);
- Benzene exceeded its RBSL in monitoring wells 12458 MW-12, 12458 MW-13, 12458 MW-17, 12458 MW-23, 12458 MW-24, 12458 MW-25, 12458 MW-27, 12458 DMW-1, 12458 DMW-2, 12458 KMO-3, and 12458 KMO-17;
- Toluene exceeded its RBSL in monitoring wells 12458 MW-12, 12458 MW-17, and 12458 MW-27;
- Ethylbenzene exceeded its RBSL in monitoring wells 12458 MW-12, 12458 MW-13, 12458 MW-17, and 12458 MW-27;
- MTBE exceeded its RBSL in monitoring wells 12458 MW-12, 12458 MW-23, 12458 MW-24, 12458 MW-27, and 12458 KMO-3;
- Naphthalene exceed its RBSL in monitoring wells 12458 MW-12, 12458 MW-13, 12458 MW-17, 12458 MW-24, 12458 MW-25, 12458 MW-27, and 12458 KMO-12;
- Tert-amyl alcohol exceeded its RBSL in monitoring wells 12458 MW-12, 12458 MW-13, 12458 MW-17, 12458 MW-23, 12458 MW-24, 12458 MW-25, and 12458 MW-27;
- Tert-butyl alcohol exceeded its RBSL in monitoring well 12458 MW-12;
- Diisopropyl ether exceeded its RBSL in monitoring wells 12458 MW-12 and 12458 MW-24.

Free product remained present in monitoring wells 12458 MW-1, 12458 MW-5, 12458 MW-6, 12458 MW-8, 12458 MW-9, 12458 MW-11, and 12458 MW-30. These provide a continuimg source of dissolved contamination, although dissolved levels appear less than previous sampling results. Cardno recommends implementation of aggressive fluid vapor recovery (AFVR) events at the monitor wells that historically have contained free product followed by continued groundwater monitoring.

Contractor Verification Checklist

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

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

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

Explanation for missing and incomplete information

The directive and QAPP for this site involves the work done for a Groundwater Monitoring Report. Any information that was not required or approved in the QAPP for the scope of work was not included.

UST
AUG 1 2 2014
PROGRAM

UST
48 tech
DOCKETING

Cardno ATC
Shaping the Future

August 8, 2014

Mr. Read S. Miner, P.G., Hydrogeologist
South Carolina Department of Health and Environmental Control
Corrective Action Section
Bureau of Land and Waste Management
UST Management Division
2600 Bull Street
Columbia, South Carolina 29201

RE: Groundwater Monitoring and Well Pad Repair Report
Former Pantry #585 / 81 Food Mart
1502 East Greenville Highway, Anderson, South Carolina
Anderson County
UST Permit ID #12458; CA #47670
Cardno ATC Project No. 14.25384.0585

Dear Mr. Miner:

Cardno, on behalf of The Pantry Inc., is submitting the text portion of the revised Groundwater Monitoring Report for the **Former Pantry #585 / 81 Food Mart**. This revised report is in accordance with the South Carolina Department of Health and Environmental Control (SCDHEC) directive letter dated April 2, 2014, and documents investigative procedures, field activities, and laboratory analytical results for the May 12, 13, 31, 2014 and August 1, 2014 groundwater sampling events.

Please add or replace components to the July 22, 2014 report as follows:

Replace the report text of the July 22, 2014 report with this text dated August 8, 2014;
Replace Tables 1 through 4;
Replace the initial Figure 4 with this Figure 4;
Add the groundwater meter sheet for monitoring well 12458 MW-17 to the other groundwater meter sheets in Appendix A;
Add these laboratory results to the other laboratory results in Appendix B;
Replace the initial disposal certificate with this disposal certificate in Appendix C;
Replace the initial Appendix K with this revised Appendix K in report Appendix D; and
Replace the initial Appendix M with this revised Appendix M in report Appendix E.

If you have any questions or require additional information, please contact the Cardno ATC project manager for the site, Jesse Keeffe, at (803) 735-0003.

Sincerely,
Cardno

Jesse L. Keeffe, Jr., P.G. #2308
Project Manager
for Cardno ATC
Direct Line +1 866 735 0003 ext. 109
Email: jesse.keeffe@cardno.com

cc: Mr. Brent Puzak, Director of Environmental Compliance, The Pantry, Inc.

Cardno ATC
Shaping the Future

August 8, 2014

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Mr. Read S. Miner, P.G., Hydrogeologist
South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management
UST Management Division Corrective Action Section
2600 Bull Street
Columbia, South Carolina 29201

RE: Groundwater Monitoring and Well Pad Repair Report(revised)
Former Pantry #585 / 81 Food Mart
1502 East Greenville Highway, Anderson, South Carolina
Anderson County
UST Permit ID #12458; CA #47670
Cardno Project No. 14.25384.0585

Dear Mr. Miner:

Cardno, on behalf of The Pantry Inc., is submitting the enclosed Groundwater Monitoring Report for the **Former Pantry #585 / 81 Food Mart**. This report is in accordance with the South Carolina Department of Health and Environmental Control (SCDHEC) directive letter dated April 2, 2014, and documents investigative procedures, field activities, and laboratory analytical results for the May 12, 13, and 31, 2014 groundwater sampling event. If you have any questions or require additional information, please contact the Cardno project manager for the site, Jesse Keeffe, at (803) 735-0003.

Sincerely,
Cardno

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Jesse L. Keeffe, Jr., P.G. #2308
Project Manager
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cc: Mr. Brent Puzak, Director of Environmental Compliance, The Pantry, Inc.

UST Site # 12458
August 8, 2014

Cardno ATC
Shaping the Future

Groundwater Monitoring Report
Former Pantry #585 / 81 Food Mart
1502 East Greenville Highway, Anderson, South Carolina
Anderson County
UST Permit ID #12458; CA #47670
Cardno ATC Project No. 14.25384.0585

Prepared By:

Braden Belding
Staff Geologist

Jason J. O'Keeffe, Jr., P.G. #2308
Project Manager

LICENSED PROFESSIONAL ENGINEER
REGISTERED PROFESSIONAL GEOLOGIST
No. 2308
8/8/2014
SOUTH CAROLINA

Submitted To:

State of South Carolina
Department of Health and Environmental Control
Bureau of Land and Waste Management
UST Management Division
Corrective Action Section
2600 Bull Street
Columbia, South Carolina 29201

On Behalf Of:

The Pantry, Inc.
Attn: Brent Puzak
P.O. Box 1410
Cary, North Carolina
Phone: (919) 774-6700

Submitted By:

Cardno
400 Northeast Drive, Unit Q
Columbia, South Carolina 29203
Phone: (803) 735-0003
Fax: (803) 735-0443

Underground Storage Tank Site Rehabilitation
Contractor Certification No. 313

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Appendix E SCDHEC QAPP Appendix M (Project Status Update)

1.0 INTRODUCTION

Cardno (formerly Cardno ATC) was retained by The Pantry, Inc. to perform environmental consulting services at the Former Pantry #585 / 81 Food Mart (site). Cardno has completed monitoring, sampling, and well pad repair activities at the site located at 1502 East Greenville Highway, Anderson, Anderson County, South Carolina (UST Permit #12458). A site topographic map is presented as ***Figure 1*** and a site map depicting pertinent features is presented as ***Figure 2***. The activities were authorized by the South Carolina Department of Health and Environmental Control's (SCDHEC) issuance of a sampling directive for the site dated April 2, 2013. The scope of services included a groundwater sampling event, laboratory testing, and report preparation. The results of the groundwater sampling event, along with recommendations, are included herein.

2.0 SITE DESCRIPTION

2.1 Site Characterization

The site is currently operating as a medical laboratory with underground storage tanks (USTs) having been removed. The site is owned by Dbouk Wajda and Joumana of 1502 East Greenville Highway, Anderson, South Carolina (Parcel number 1480902006). The site is located at the intersection of S.C. Highway 81 and McLees Road in Anderson, Anderson County, South Carolina. The surrounding area includes developed commercial properties and a residential property to the east of the site.

2.2 Site Background

The release was reported on November 10, 1992. Following confirmation of the release, soil and groundwater assessments were conducted. Most recently, SCDHEC issued a directive for the preparation of a Quality Assurance Program Plan (QAPP) contractor addendum (QAPPA) for a comprehensive sampling event. On March 26, 2014, Cardno ATC submitted the QAPPA which was approved by SCDHEC on March 28, 2014. On April 2, 2014, SCDHEC issued a Groundwater Sampling Directive requesting the completion of a groundwater sampling event at the site. Per SCDHEC's request, this report documents a groundwater sampling event conducted on May 12, 13, and 31, 2014.

2.3 Well Pad Maintenance

On May 31, 2014, Cardno completed work to find and repair monitoring wells onsite which had been either damaged or concealed by concrete paving. Monitoring Wells 12458 DMW-1 and 12458 MW-22D were found approximately a foot under the concrete parking lot. These wells were raised to surface grade and their pads were repaired. Monitoring Wells 12458 MW-23 and 12458 MW-24 had broken concrete inside the well vault restricting access to the casing. The concrete was removed and the well pad was repaired or replaced as appropriate. However, monitoring wells 12458 MW-10, 12458 MW-29, and 12458 MW-31 could not be located during this event due to false magntometer readings caused by ¾" steel rebar within the concrete pavement.

3.0 GROUNDWATER CHARACTERIZATION

3.1 Groundwater Levels

On May 12, 13, and 31, 2014, groundwater levels were gauged in monitoring wells 12458 MW-PL-1, 12458 MW-PL-2, 12458 MW-PL-3, 12458 MW-1, 12458 MW-2, 12458 MW-3, 12458 MW-4, 12458 MW-5, 12458 MW-6, 12458 MW-7, 12458 MW-8, 12458 MW-9, 12458 MW-11, 12458 MW-12, 12458 MW-13, 12458 MW-14, 12458 MW-15, 12458 MW-16, 12458 MW-17, 12458 MW-18D, 12458 MW-19D, 12458 MW-20D,12458 MW-21D, 12458 MW-22D, 12458 MW-23, 12458 MW-24, 12458 MW-25, 12458 MW-26, 12458 MW-27, 12458 MW-28, 12458 MW-30, 12458 DMW-1, 12458 DMW-2, 12458 DMW-3, 12458 KMO-3, 12458 KMO-5, 12458 KMO-6, 12458 KMO-10, 12458 KMO-11, 12458 KMO-12, 12458 KMO-17, and 12458 KMO-18. An oil/water interface probe was used to measure the depths to water and free-phase product, which was present at the time of the gauging event in monitoring wells 12458 MW-1, 12458 MW-5, 12458 MW-6, 12458 MW-8, 12458 MW-9, 12458 MW-11, and 12458 MW-30 (with an approximate thickness of 0.46, 1.53, 0.65, 0.25, 0.49, 0.23, and 1.88 feet, respectively). Monitoring wells 12458 MW-10, 12458 MW-29, and 12458 MW-31 could not be located due to the steel rebar in the concrete. Monitoring well 12458 DMW-4 also could not be located and appeared to have been destroyed. Depths were measured from the top of the well casings. Groundwater depths were subtracted from elevations set at the top of each well's casing, referenced to an arbitrary datum of 100.00 feet, to establish groundwater elevations. The locations of the monitoring wells are shown in ***Figure 2***. Monitoring well construction details and current groundwater elevation data are included in ***Table 1***.

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3.2 Groundwater Quality

On May 12, 13, and 31, 2014, groundwater samples were collected from monitoring wells 12458 MW-PL-1, 12458 MW-PL-2, 12458 MW-PL-3, 12458 MW-2, 12458 MW-3, 12458 MW-4, 12458 MW-7, 12458 MW-12, 12458 MW-13, 12458 MW-14, 12458 MW-15, 12458 MW-16, 12458 MW-17, 12458 MW-18D, 12458 MW-19D, 12458 MW-20D, 12458 MW-21D, 12458 MW-25, 12458 MW-26, 12458 MW-27, 12458 MW-28, 12458 DMW-2, 12458 DMW-3, 12458 KMO-3, 12458 KMO-5, 12458 KMO-6, 12458 KMO-10, 12458 KMO-11, 12458 KMO-12, 12458 KMO-17, and 12458 KMO-18. Groundwater samples were collected from monitoring wells 12458 MW-22D, 12458 MW-23, 12458 MW-24, and 12458 DMW-1 on May 31, 2014 (after the missing well locating and well pad repair/replacement activities).

On August 1, 2014, A groundwater sample was collected from 12458 MW-17. This was a resample of monitor well 12458 MW-17 (that was orinally sampled on May 12, 2014). The original sample showed a concentration of 5000 ug/L for 1,2-DCA and the duplicate sample showed <500 ug/L and the laboratory could not explain the discrepancy.

Disposable polyethylene bailers were used for the purging and collection of the water samples from monitoring wells. The groundwater monitoring wells were purged of three casing volumes, bailed for dryness, or purged until field parameters varied less than 10% prior to sample collection. During purging and prior to sample collection, Cardno collected pH, specific conductivity, water temperature, and dissolved oxygen measurements. These measurements for each well are recorded in the field data information sheets included in ***Appendix A***. Disposable nitrile gloves were used to maintain sample integrity during the sampling process.

The groundwater and quality assurance samples were transported under chain of custody to Accutest Laboratories [500 Ambassador Caffery Parkway, Scott, Louisiana 70583, South Carolina

Laboratory Certification Number 73004001, (337) 237-4775]. The groundwater samples were analyzed for the volatile organic compounds benzene, toluene, ethylbenzene, total xylenes (BTEX), methyl tert-butyl ether (MTBE), naphthalene, 1,2-dichloroethane (1,2-DCA) and the 8 oxygenates by EPA Method 8260B; and additionally analyzed for 1,2-dibromoethane (EDB) by EPA method 8011. Copies of the laboratory analytical results for groundwater quality and chain-of-custody documentation are included in ***Appendix B***.

Groundwater analytical results for the May 12, 13, and 31, 2014 sampling event are summarized in ***Table 2***. The groundwater samples with CoCs that exceeded the SCDHEC RBSLs are summarized as follows:

- Benzene — 12458 MW-12, 12458 MW-13, 12458 MW-17, 12458 MW-23, 12458 MW-24, 12458 MW-25, 12458 MW-27, 12458 DMW-1, 12458 DMW-2, 12458 KMO-3, and 12458 KMO-17;
- Toluene — 12458 MW-12, 12458 MW-17, and 12458 MW-27;
- Ethylbenzene — 12458 MW-12, 12458 MW-13, 12458 MW-17, and 12458 MW-27;
- Naphthalene — 12458 MW-12, 12458 MW-13, 12458 MW-17, 12458 MW-24, 12458 MW-25, 12458 MW-27, and 12458 KMO-17;
- MTBE — 12458 MW-12, 12458 MW-23, 12458 MW-24, 12458 MW-27, and 12458 KMO-3;
- Diisopropyl ether — 12458 MW-12 and 12458 MW-24;
- Tert-Butyl Alcohol — 12458 MW-12;
- Tert-Amyl Alcohol — 12458 MW-12, 12458 MW-13, 12458 MW-17, 12458 MW-23, 12458 MW-24, 12458 MW-25, and 12458 MW-27.

A chemicals of concern (CoC) in groundwater map is included as ***Figure 4***. Historical groundwater analytical results are summarized in ***Table 3***. All purge water was filtered through a granular activated carbon unit prior to proper disposal. A waste disposal certificate for the purge water is included in ***Appendix C***.

4.0 DATA VALIDATION AND USABILITY

4.1 Data Validation

To ensure adherence to the methodologies described in the QAPPA, a contractor data verification checklist (SCDHEC Programmatic QAPP Appendix K) was completed and is included in ***Appendix D.***

4.2 Quality Assurance Analysis

The project sample design, field procedures, and laboratory data were reviewed for quality assurance and data usability using the six data quality indicators (DQIs) described in Section A7 of the SCDHEC Programmatic QAPP requirements. The results of the quality assurance analysis are described below.

4.3 Precision

The precision of the laboratory data was evaluated by comparing the relative percent difference (RPD) between using a sample and a field duplicate sample. The sample locations were selected based on previous analytical results. Field duplicate sample DUP-1 was collected from monitoring well 12458 MW-17 on May 12, 2014, field duplicate sample DUP-2 was collected from monitoring well 12458 MW-12 on May 13, 2014, and field duplicate sample DUP was collected from monitoring well 12458 MW-23 on May 31, 2014. All duplicates were submitted for analysis of the same method 8260B and 8011 constituents as the original samples. The RPD was calculated using the formula:

$$PD\ (\%) = Absolute\ value\ of \left(\frac{(C_S - C_D)}{((C_S - C_D)/2)}\right) x\ 100$$

Where: C_S = Concentration of the sample

C_D = Concentration of the duplicate sample

The RPDs were compared to the limits established in Appendix E of the SCDHEC Programmatic QAPP. The results of the Precision Analysis are included in ***Table 4***. The results indicate that the RPD limit of 20% was exceeded between 12458 MW-23 and DUP for benzene (34%), toluene

(88%), ethylbenzene (22%), MTBE (53%), Di-isopropyl Ether (69%), and tert-Amyl Alcohol (37%). The RPD limit was exceeded between 12458 MW-12 and DUP-2 for tert-Butyl Alcohol (24%) and the RPD limit was exceeded between 12458 MW-17 and DUP for tert-Amyl Alcohol (23%). Further monitoring will determine whether this is the case. Please see ***Appendix E*** for the Project Status Update Form regarding the exceeded the RPD limit for the respective chemicals of concern.

4.4 Bias

Bias analysis of the data can indicate accuracy of the laboratory measurement system. The results of the analysis of field and trip blanks associated with the different sample dates indicate that there were no sources of error in the sampling process, preservation, handling, sample preparation and analytical techniques. The results of the bias analysis of the field and trip blanks are included in ***Table 4***.

4.5 Representativeness

The site monitoring well network was designed to allow representative samples to be collected from the site and the surrounding area. Field personnel have been instructed to log data, label containers, and enter samples on the chains-of-custody immediately upon collection to reduce potential for sample location or other representativeness errors. Proper preservation techniques, including preservative use and immediate icing of samples are also employed. The laboratory reported that samples were received within the proper temperature range inn accordance with the QAPPA. Samples were collected and analyzed in accordance with the QAPPA. The data collected and presented in this report meet the QAPP criteria for representativeness.

4.6 Completeness

The dataset meets the completeness criteria based on the purpose of the sampling event because each available monitoring well that did not contain free product and which could be located was sampled. The purpose of the sampling event was to monitoring the petroleum impact to groundwater.

4.7 Comparability

The results of laboratory analysis of groundwater at the site between November 2000 and May 31, 2014 are included in this report. The samples were collected using the same field protocols,

analyzed using the same EPA Methods, and the data is reported in micrograms per Liter (µg/L) to allow for easy comparison. In general, trends of impact conditions show that effects of natural migration and attenuation of impact are consistent with a petroleum release in the South Carolina geographic setting. Concentrations between individual monitoring events show modest changes reflective of natural attenuation or reasonable data fluctuations from sorption and desorption effects during water level changes or from other natural variations. The comparability criteria have generally been met.

4.8 Method Sensitivity

Laboratory method detection limits and reporting limits were reviewed and compared to the limits established in Appendix E of the SCDHEC Programmatic QAPP. The results of the Method Sensitivity analysis are included in ***Table 4***. The analytical dataset met the QAPP sensitivity limits. The analytical dataset met the QAPP sensitivity limits except where substantial sample dilutions were required, such as for the samples from 12458 MW-12, 12458-MW-13, 12458 MW-17, 12458-MW-24, and 12458 MW-27.

5.0 SUMMARY

During this reporting period Cardno conducted monitoring well sampling at the site. Based on field activities and laboratory results Cardno concludes the following:

- Groundwater flow direction was in a south to southwestern direction across the site with an estimated hydraulic gradient of 0.055 feet per foot;
- Free product was detected during the May 12, 13, and 31, 2014 sampling event in monitoring wells 12458 MW-1 (0.46 ft.), 12458 MW-5 (1.53 ft.), 12458 MW-6 (0.65 ft.), 12458 MW-8 (0.25 ft.), 12458 MW-9 (0.49 ft.), 12458 MW-11 (0.23 ft.), and 12458 MW-30 (1.88 ft.);
- Benzene exceeded its RBSL in monitoring wells 12458 MW-12, 12458 MW-13, 12458 MW-17, 12458 MW-23, 12458 MW-24, 12458 MW-25, 12458 MW-27, 12458 DMW-1, 12458 DMW-2, 12458 KMO-3, and 12458 KMO-17;
- Toluene exceeded its RBSL in monitoring wells 12458 MW-12, 12458 MW-17, and 12458 MW-27;
- Ethylbenzene exceeded its RBSL in monitoring wells 12458 MW-12, 12458 MW-13, 12458 MW-17, and 12458 MW-27;
- MTBE exceeded its RBSL in monitoring wells 12458 MW-12, 12458 MW-23, 12458 MW-24, 12458 MW-27, and 12458 KMO-3;
- Naphthalene exceed its RBSL in monitoring wells 12458 MW-12, 12458 MW-13, 12458 MW-17, 12458 MW-24, 12458 MW-25, 12458 MW-27, and 12458 KMO-12;
- Tert-amyl alcohol exceeded its RBSL in monitoring wells 12458 MW-12, 12458 MW-13, 12458 MW-17, 12458 MW-23, 12458 MW-24, 12458 MW-25, and 12458 MW-27;
- Tert-butyl alcohol exceeded its RBSL in monitoring well 12458 MW-12;
- Diisopropyl ether exceeded its RBSL in monitoring wells 12458 MW-12 and 12458 MW-24.

Free product remained present in monitoring wells 12458 MW-1, 12458 MW-5, 12458 MW-6, 12458 MW-8, 12458 MW-9, 12458 MW-11, and 12458 MW-30. These provide a continuimg source of dissolved contamination, although dissolved levels appear less than previous sampling results. Cardno recommends implementation of aggressive fluid vapor recovery (AFVR) events at the monitor wells that historically have contained free product followed by continued groundwater monitoring.

TABLES

Table 1
Groundwater Elevation Data
Pantry #585 (81 Food Mart)
1502 East Greenville Street
Anderson, Anderson County, South Carolina
UST Permit #12458

Well Identification	Date Measured	Top of Casing Elevation, ft	Total Well Depth, ft	Screened interval, ft	Depth to Product , ft (1)	Product Thickness, ft	Depth to Water, ft (2)	Groundwater Elevation, ft
12458 MW-PL-1	05/12/2014	86 55	13	3-13	NP	NP	6 15	80 40
	04/28/2011				NP	NP	8 22	78 33
12458 MW-PL-2	05/12/2014	84 05	13	3-13	NP	NP	5 45	78 60
	04/28/2011				NP	NP	5 94	78 11
12458 MW-PL-3	05/12/2014	82 56	13	3-13	NP	NP	5 00	77 56
	04/28/2011				NP	NP	5 46	77 10
12458 MW-1	05/13/2014	94 87	25	15-25	9 89	0 46	10 35	84 52
	06/15/2011				11 11	0 62	11 73	83 14
	11/15/2007				13 47	0 26	13 73	81 14
12458 MW-2	05/13/2014	94 78	20	10-20	NP	NP	8 55	86 23
	06/15/2011				NP	NP	10 72	84 06
	11/15/2007				NP	NP	12 91	81 87
12458 MW-3	05/13/2014	91.60	15	5-15	NP	NP	6 15	85 45
	06/15/2011				NP	NP	8 04	83 56
	11/15/2007				NP	NP	10 28	81 32
12458 MW-4	05/13/2014	91 77	15	5-15	NP	NP	7 25	84 52
	06/15/2011				NP	NP	9 04	82 73
	11/15/2007				NP	NP	11 06	80 71
12458 MW-5	05/13/2014	94 34	15	5-15	9 57	1 53	11 10	83 24
	06/15/2011				11 31	0 23	11 54	82 80
	11/15/2007				NP	NP	14 23	80 11
12458 MW-6	05/12/2014	95 34	18	8-18	10 45	0 65	11 10	84 24
	06/15/2011				12 01	0 26	12 27	83 07
	11/15/2007				NP	NP	14 23	81 11
12458 MW-7	05/12/2014	95 80	15	5-15	8 05	0 25	8 3	87 50
	06/15/2011				9 58	0 23	9 81	85 99
	11/15/2007				NP	NP	11 37	84 43
12458 MW-8	05/12/2014	95 80	15	5-15	NP	NP	7 68	88 12
	06/15/2011				NP	NP	9 41	86 39
	11/15/2007				11 55	0 31	11 86	83 94
12458 MW-9	05/12/2014	94 36	17	7-17	9 04	0 49	9 53	84 83
	06/15/2011				NP	NP	12 14	82.22
	11/15/2007				NP	NP	13 29	81 07
12458 MW-10	05/12/2014	94 29	17	7-17	N/A	N/A	N/A	N/A
	06/15/2011				11 1	0 12	11 22	83.07
	11/15/2007				11 55	1 76	13 31	80 98
12458 MW-11	05/12/2014	94 71	17	7-17	10 05	0 23	10 28	84 43
	06/15/2011				N/A	N/A	N/A	N/A
	11/15/2007				13 38	0 3	13 68	81 03
12458 MW-12	05/13/2014	92 18	17	7-17	NP	NP	8 55	83 63
	06/15/2011				NP	NP	10 29	81 89
	11/15/2007				NP	NP	12 26	79 92
12458 MW-13	05/12/2014	90 12	13	3-13	NP	NP	7 15	82 97
	06/15/2011				NP	NP	8 62	81 50
	11/15/2007				NP	NP	10 57	79 55
12458 MW-14	05/12/2014	Unk	25	15-25	NP	NP	12 25	Unk
12458 MW-15	05/12/2014	Unk	25	15-25	NP	NP	9 75	Unk
12458 MW-16	05/13/2014	Unk	20	10-20	NP	NP	7 55	Unk
12458 MW-17	05/12/2014	Unk	20	10-20	NP	NP	10.3	Unk
12458 MW-18D	05/13/2014	Unk	80	75-80	NP	NP	7 58	Unk
12458 MW-19D	05/13/2014	Unk	48	43-48	NP	NP	10 41	Unk
12458 MW-20D	05/13/2014	Unk	47	42-47	NP	NP	9 75	Unk
12458 MW-21D	05/12/2014	Unk	47	42-47	NP	NP	8 15	Unk
12458 MW-22D	05/31/2014	Unk	47	42-47	NP	NP	6 73	Unk
12458 MW-23	05/31/2014	90 79	18	8-18	NP	NP	6 71	84.08
	06/15/2011				NP	NP	8 4	82 39
12458 MW-24	05/31/2014	91 49	20	10-20	NP	NP	7 27	84 22
	06/15/2011				8 76	0 15	8 91	82 58
12458 MW-25	05/13/2014	Unk	20	10-20	NP	NP	10	Unk
12458 MW-26	05/13/2014	Unk	20	10-20	NP	NP	6 69	Unk
12458 MW-27	05/13/2014	Unk	21	11-21	NP	NP	8 25	Unk
12458 MW-28	05/31/2014	Unk	20	10-20	NP	NP	8 76	Unk
12458 MW-30	05/12/2014	Unk	20	10-20	8 7	1 88	10 58	Unk
12458 MW-31	05/31/2014	92 79	20	5-15	N/A	N/A	N/A	N/A
	06/15/2011				NP	NP	10 21	82 58
12458 DMW-1	05/31/2014	94 71	78	73-78	NP	NP	9 81	84 90
	11/15/2007				NP	NP	13 49	81 22
12458 DMW-2	05/13/2014	Unk	80	75-80	NP	NP	10 66	Unk
	11/15/2007	Unk			NP	NP	13 76	Unk
12458 DMW-3	05/13/2014	Unk	112	107-112	NP	NP	10 25	Unk
12458 KMO-3	05/12/2014	87 86	14	4-14	NP	NP	5 8	82 06
	04/28/2011				NP	NP	7 28	80 58

(1) Depth to water measured from top of casing
(2) Depth to water corrected for presence of product using density corrective factor of 0 73 g/cc
(3) NP free product not present
(4) Unk = Unknown

Table 1
Groundwater Elevation Data
Pantry #585 (81 Food Mart)
1502 East Greenville Street
Anderson, Anderson County, South Carolina
UST Permit #12458

Well Identification	Date Measured	Top of Casing Elevation, ft	Total Well Depth, ft	Screened interval, ft	Depth to Product, ft (1)	Product Thickness, ft	Depth to Water, ft (2)	Groundwater Elevation, ft
12458 KMO-5	05/12/2014	88 22	14	4-14	NP	NP	5 75	82 47
	04/28/2011				NP	NP	7 52	80 70
12458 KMO-6	05/12/2014	86 17	15	5-15	NP	NP	6 15	80 02
	04/28/2011				NP	NP	7 15	79 02
12458 KMO-10	05/12/2014	84 63	15	5-15	NP	NP	8 25	76 38
	04/28/2011				NP	NP	5 85	78 78
12458 KMO-11	05/12/2014	83 38	12	2-12	NP	NP	5 85	77 53
	04/28/2011				NP	NP	6 02	77 36
12458 KMO-12	05/12/2014	85 45	15	5-15	NP	NP	5 5	79 95
	04/28/2011				NP	NP	5 93	79 52
12458 KMO-17	05/12/2014	87 79	15	5-15	NP	NP	7 15	80 64
	04/28/2011				NP	NP	7 88	79 91
	11/15/2007				NP	NP	10 13	77 66
12458 KMO-18	05/12/2014	85 93	15	5-15	NP	NP	5 45	80 48
	04/28/2011				NP	NP	5 77	80 16
	04/28/2011				NP	NP	8 36	77 57

(1) Depth to water measured from top of casing
(2) Depth to water corrected for presence of product using density corrective factor of 0 73 g/cc
(3) NP free product not present
(4) Unk = Unknown

Table 2
Groundwater Analytical Results
Former Pantry #585
1502 East Greenville Street
Anderson, Anderson County, South Carolina
UST Permit #12458

Well ID	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naph-thalene	EDB	1,2 DCA	3,3-Dimethyl-1-butanol	di-Isopropyl ether	Ethanol	t-Butyl alcohol	tert-Amyl alcohol	tert-Amyl ethyl ether	Ethyl tert-butyl ether	tert Butyl formate
12458 MW-PL-1	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
12458 MW-PL-2	05/12/2014	< 1	< 1	< 1	< 2	17	< 5	< 0 022	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
12458 MW-PL-3	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 022	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
12458 MW-2	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
12458 MW-3	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
12458 MW-4	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 022	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
12458 MW-7	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
12458 MW-12	05/13/2014	**23,000**	**22,000**	**2,000**	8,100	**12,000**	**540**	< 0 022	< 500	< 1000	**2,300**	< 10000	**9,400**	**51,000**	< 500	< 500	< 100
12458 MW-13	05/12/2014	**2,900**	**860**	**720**	990	< 5	**280**	< 0 021	< 25	< 50	28	< 500	< 50	**1,800**	< 25	< 25	< 5
12458 MW-14	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
12458 MW-15	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
12458 MW-16	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
12458 MW-17	05/12/2014	**5,900**	**24,000**	**2,100**	**11,900**	< 100	**820**	< 0 021	5,000	< 1000	< 500	< 10000	< 1000	**5,900**	< 500	< 500	< 100
12458 MW-17	08/01/2014	**4,000**	**19,000**	**1,500**	**10,000**	< 50	**610**	< 0 021	< 250	< 500	< 250	< 5000	< 500	**2,300**	< 250	< 250	< 50
12458 MW-18D	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
12458 MW-19D	05/13/2014	< 1	1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
12458 MW-20D	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
12458 MW-21D	05/12/2014	< 1	< 1	< 1	< 2	1.1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
12458 MW-22D	05/31/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 023	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
12458 MW-23	05/31/2014	**34**	21	9 1	63	**83**	10	< 0 022	< 5	< 10	14	< 100	< 10	**290**	< 5	< 5	< 1
12458 MW-24	05/31/2014	**680**	92	19	83	**3,100**	33	< 0 023	< 5	< 10	**350**	< 100	< 10	**12,000**	61	< 5	< 1
12458 MW-25	05/13/2014	**53**	**43**	17	154	< 1	**28**	< 0 022	< 5	< 10	< 5	< 100	< 10	**240**	< 5	< 5	< 1
12458 MW-26	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
12458 MW-27	05/13/2014	**1,200**	**2,600**	**950**	5,600	**120**	**650**	< 0 022	< 50	< 100	58	< 1000	< 100	**810**	< 50	< 50	< 10
12458 MW-28	05/31/2014	< 1	< 1	< 1	< 2	8 3	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
12458 DMW-1	05/31/2014	**19**	23	2 3	16 2	16	< 5	< 0 023	< 5	< 10	< 5	< 100	14	13	< 5	< 5	< 1
12458 DMW-2	05/13/2014	**6.2**	37	12	74	< 1	6 6	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
12458 DMW-3	05/13/2014	< 1	1 3	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
12458 KMO-3	05/12/2014	**80**	1 5	13	12 3	74	12	< 0 022	< 5	< 10	62	< 100	160	35	5 4	< 5	< 1
12458 KMO-5	05/12/2014	1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	15	160	< 5	< 5	< 1
12458 KMO-6	05/12/2014	< 1	< 1	< 1	< 2	6 2	< 5	< 0 021	< 5	< 10	6 8	< 100	29	32	< 5	< 5	< 1
12458 KMO-10	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
12458 KMO-11	05/12/2014	< 1	< 1	< 1	< 2	3	< 5	< 0 023	< 5	< 10	< 5	< 100	< 10	11	< 5	< 5	< 1
12458 KMO-12	05/12/2014	< 1	< 1	< 1	< 2	19	< 5	< 0 021	< 5	< 10	18	< 100	130	170	< 5	< 5	< 1
12458 KMO-17	05/12/2014	**13**	95	80	188	< 1	**38**	< 0 021	< 5	< 10	< 5	< 100	< 10	**41**	< 5	< 5	< 1
12458 KMO-18	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**0.05**	**NE**	**NE**	**70**	**2,000**	**1,400**	**240**	**128**	**47**	**NE**

Notes
1 Units = µg/L
2 MTBE = Methyl Tertiary Butyl Ether, EDB = 1,2-Dibromoethane
3 "<" = Not detected at or above the laboratory reporting limit
4 J = Result is less than the Reporting Limit but greater than or equal to the Method detection limit
5 RBSL = May 15, 2001 Risk Based Screening Level
6 Bold concentrations equal or exceed the corresponding RBSL
7. NE = Not established
8 NSP = Well not sampled-due to free product
9 NSD = Well not sampled-dry
10 NSI = Well not sampled-inaccessable during sampling event

Table 3
Historical Groundwater Analytical Results
Former Pantry #585
1502 East Greenville Street
Anderson, Anderson County, South Carolina
UST Permit #12458

Well ID	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naphthalene	EDB
12458 MW-PL-1	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021
	04/28/2011	< 1	< 1	< 1	< 2	< 1	< 5	<0 046
12458 MW-PL-2	05/12/2014	< 1	< 1	< 1	< 2	17	< 5	< 0 022
	04/28/2011	< 1	< 1	< 1	< 2	< 1	< 5	<0 044
12458 MW-PL-3	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 022
	04/28/2011	< 1	< 1	< 1	< 2	< 1	< 5	<0 043
12458 MW-1	05/12/2014	NSP	NSP	NSP	NSP	NSP	NSP	NSP
	11/15/2007	6200	8600	1600	7200	2400	810	NS
	April 2007	NS	NS	NS	NS	NS	NS	NS
	June 2006	NS	NS	NS	NS	NS	NS	NS
	November 2000	7050	13100	1590	7590	2470	610	NS
12458 MW-2	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021
	11/15/2007	<1	<1	<1	<1	<1	<5	NS
	April 2007	<5	<5	<5	<5	<5	<5	NS
	June 2006	<5	<5	<5	<5	<5	<5	NS
	November 2000	2 1	25	5 1	39 6	<2	14 9	NS
12458 MW-3	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021
	11/15/2007	< 1	< 1	< 1	<1	< 1	< 5	NS
	April 2007	<5	<5	<5	<5	<5	<5	NS
	June 2006	<5	<5	<5	<5	<5	<5	NS
	November 2000	<2	4 1	<2	<2	<2	15 9	NS
12458 MW-4	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 022
	11/15/2007	3400	2900	870	1770	890	340	NS
	April 2007	2200	2100	530	930	660	180	NS
12458 MW-5	11/15/2007	22000	30000	2500	14600	160	<500	NS
	April 2007	NS	NS	NS	NS	NS	NS	NS
12458 MW-6	11/15/2007	620	1500	260	1080	19	75	NS
	April 2007	2800	24000	3100	13200	<1000	2000	NS
12458 MW-7	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021
	11/15/2007	<1	<1	<1	<1	<1	<5	NS
	April 2007	<5	<5	<5	<5	<5	<5	NS
12458 MW-12	05/13/2014	23,000	22,000	2,000	8,100	12,000	540	< 0 022
12458 MW-13	05/12/2014	2,900	860	720	990	< 5	280	< 0 021
12458 MW-14	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021
12458 MW-15	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021
12458 MW-16	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021
12458 MW-17	08/01/2014	4,000	19,000	1,500	10,000	< 50	610	< 0 021
12458 MW-18D	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021
12458 MW-19D	05/13/2014	< 1	1	< 1	< 2	< 1	< 5	< 0 021
12458 MW-20D	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021
12458 MW-21D	05/12/2014	< 1	< 1	< 1	< 2	1 1	< 5	< 0 021
12458 MW-22D	05/31/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 023
12458 MW-23	05/31/2014	34	21	9 1	63	83	10	< 0 022
12458 MW-24	05/31/2014	680	92	19	83	3,100	33	< 0 023
12458 MW-25	05/13/2014	53	43	17	154	< 1	28	< 0 022
12458 MW-26	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021
12458 MW-27	05/13/2014	1,200	2,600	950	5 600	120	650	< 0 022
12458 MW-28	05/31/2014	< 1	< 1	< 1	< 2	8 3	< 5	< 0 021
12458 DMW-1	05/31/2014	19	23	2 3	16 2	16	< 5	< 0 023
	11/15/2007	300	490	90	420	210	31	NS
	April 2007	13	19	<5	<5	<5	<5	NS
12458 DMW-2	05/13/2014	6 2	37	12	74	< 1	6 6	< 0 021
12458 DMW-3	05/13/2014	< 1	1 3	< 1	< 2	< 1	< 5	< 0 021
12458 KMO-3	05/12/2014	80	1 5	13	12 3	74	12	< 0 022
	04/28/2011	NS	NS	NS	NS	NS	NS	NS
12458 KMO-5	05/12/2014	1	< 1	< 1	< 2	< 1	< 5	< 0 021
	04/28/2011	NS	NS	NS	NS	NS	NS	NS
12458 KMO-6	05/12/2014	< 1	< 1	< 1	< 2	6 2	< 5	< 0 021
	04/28/2011	NS	NS	NS	NS	NS	NS	NS
12458 KMO-10	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021
	04/28/2011	NS	NS	NS	NS	NS	NS	NS
12458 KMO-11	05/12/2014	< 1	< 1	< 1	< 2	3	< 5	< 0 023
	04/28/2011	NS	NS	NS	NS	NS	NS	NS
12458 KMO-12	05/12/2014	< 1	< 1	< 1	< 2	19	< 5	< 0 021
	04/28/2011	NS	NS	NS	NS	NS	NS	NS
12458 KMO-17	05/12/2014	13	95	80	188	< 1	38	< 0 021
	04/28/2011	NS	NS	NS	NS	NS	NS	NS
12458 KMO-18	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021
	04/28/2011	NS	NS	NS	NS	NS	NS	NS
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**0 05**

Notes
1 Units = µg/L
2 MTBE = Methyl Tertiary Butyl Ether EDB = 1,2-Dibromoethane
3 "<" = Not detected at or above the laboratory reporting limit
4 J = Result is less than the Reporting Limit but greater than or equal to the Method detection limit
5 RBSL = May 15, 2001 Risk Based Screening Level
6 Bold concentrations equal or exceed the corresponding RBSL
7 NE = Not established
8 NSP = Well not sampled-due to free product
9 NSD = Well not sampled-dry
10 NSI = Well not sampled-inaccessable during sampling event

Table 4
Data Quality Indicator Analysis
Former Pantry #585
Anderson, Anderson County, South Carolina
UST Permit #12458

Well Location	Sample Date	Petroleum Constituents (ug/L)									Oxygenates (ug/L)							Comments / Notes
		Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene (8260)	1,2 - Dibromoethane (EDB)	1,2 - Dichloroethane (DCA)	3,3-Dimethyl-1-butanol	Diisopropyl ether	Ethanol	t-Butyl alcohol	tert-Amyl alcohol	tert-Amyl ethyl ether	ethyl tert-Butyl ether	tert-Butyl formate	
Precision Analysis																		
Precision Limit (RPD %)		20	20	20	20	20	20		20	20	20		20	20	20	20	20	All constituents except for Benzene, Toluene, Ethylbenzene, MTBE, Diisopropyl ether, t-Butyl alcohol, and tert-Amyl alcohol within 20% RPD
12458 MW-12	05/13/2014	23,000	22,000	2,000	8,100	12,000	540	< 0 022	< 500	< 1000	2,300	< 10000	9,400	51,000	< 500	< 500	< 100	
DUP-2	05/13/2014	21,000	19,000	1,800	7,400	13,000	520	< 0 021	< 500	< 1000	2,400	< 10000	12,000	58,000	< 500	< 500	< 100	
RPD (%)		9%	15%	11%	9%	8%	4%	---	---	---	4%	---	24%	13%	---	---	---	
12458 MW-23	05/31/2014	34	21	9 1	63	83	10	< 0 022	< 5	< 10	14	< 100	< 10	290	< 5	< 5	< 1	
DUP	05/31/2014	48	54	7 3	73	48	9	< 0 021	< 5	< 10	6 8	< 100	41	200	< 5	< 5	< 1	
RPD (%)		34%	88%	22%	15%	53%	11%	---	---	---	69%	---	---	37%	---	---	---	
12458 MW-17	8/1/2014	4,000	19,000	1,500	10,000	< 50	610	< 0 021	< 250	< 500	< 250	< 5000	< 500	2,300	< 250	< 250	< 50	
DUP	08/01/2014	3,900	19,000	1,500	9,900	< 50	620	< 0 021	< 250	< 500	< 250	< 5000	< 500	2,900	< 250	< 250	< 50	
RPD (%)		3%	0%	0%	1%	---	2%	---	---	---	---	---	---	23%	---	---	---	
Bias Analysis																		
Trip Blank	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	NA	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	No Errors Indicated
Trip Blank	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	NA	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	No Errors Indicated
Trip Blank	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	NA	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	No Errors Indicated
Trip Blank	05/31/2014	< 1	< 1	< 1	< 2	< 1	< 5	NA	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	No Errors Indicated
Trip Blank	08/01/2014	< 1	< 1	< 1	< 2	< 1	< 5	NA	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	No Errors Indicated
Field Blank	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	No Errors Indicated
Field Blank	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	No Errors Indicated
Field Blank	05/31/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	No Errors Indicated
Field Blank	08/01/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	No Errors Indicated
Method Sensitivity																		
Sensitivity Limits (GW - µg/L)		<1	<1	<1	<2	<1	<5	<0.021	<5	<0 021	<10	<100	<5	<10	<10	<100	<5	
12458 MW-PL-1	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	
12458 MW-PL-2	05/12/2014	< 1	< 1	< 1	< 2	17	< 5	< 0.022	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	
12458 MW-PL-3	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 022	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	
12458 MW-2	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	
12458 MW-3	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	
12458 MW-4	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 022	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	
12458 MW-7	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	
12458 MW-12	05/13/2014	23,000	22,000	2,000	8,100	12,000	540	< 0 022	< 500	< 1000	2,300	< 10000	9,400	51,000	< 500	< 500	< 100	100X Dilution Factor
12458 MW-13	05/12/2014	2,900	860	720	990	< 5	280	< 0 021	< 25	< 50	28	< 500	< 50	1,800	< 25	< 25	< 5	5X, 20X Dilution Factor
12458 MW-14	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	
12458 MW-15	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	
12458 MW-16	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	
12458 MW-17	08/01/2014	4,000	19,000	1,500	10,000	< 50	610	< 0 021	< 250	< 500	< 250	< 5000	< 500	2,300	< 250	< 250	< 50	50X Dilution Factor
12458 MW-18D	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	
12458 MW-19D	05/13/2014	< 1	1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	
12458 MW-20D	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	
12458 MW-21D	05/12/2014	< 1	< 1	< 1	< 2	1 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	
12458 MW-22D	05/31/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 023	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	
12458 MW-23	05/31/2014	34	21	9 1	63	83	10	< 0 022	< 5	< 10	14	< 100	< 10	290	< 5	< 5	< 1	
12458 MW-24	05/31/2014	680	92	19	83	3,100	33	< 0 023	< 5	< 10	350	< 100	< 10	12,000	61	< 5	< 1	5X, 10X Dilution Factor
12458 MW-25	05/13/2014	53	43	17	154	< 1	28	< 0.022	< 5	< 10	< 5	< 100	< 10	240	< 5	< 5	< 1	
12458 MW-26	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	
12458 MW-27	05/13/2014	1,200	2,600	950	5,600	120	650	< 0 022	< 50	< 100	58	< 1000	< 100	810	< 50	< 50	< 10	10X Dilution Factor
12458 MW-28	05/31/2014	< 1	< 1	< 1	< 2	8 3	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	
12458 DMW-1	05/31/2014	19	23	2 3	16 2	16	< 5	< 0 023	< 5	< 10	< 5	< 100	14	13	< 5	< 5	< 1	
12458 DMW-2	05/13/2014	6 2	37	12	74	< 1	6 6	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	
12458 DMW-3	05/13/2014	< 1	1 3	< 1	< 2	< 1	< 5	< 0.021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	
12458 KMO-3	05/12/2014	80	1 5	13	12 3	74	12	< 0 022	< 5	< 10	62	< 100	160	35	5 4	< 5	< 1	
12458 KMO-5	05/12/2014	1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	15	160	< 5	< 5	< 1	
12458 KMO-6	05/12/2014	< 1	< 1	< 1	< 2	6 2	< 5	< 0 021	< 5	< 10	6 8	< 100	29	32	< 5	< 5	< 1	
12458 KMO-10	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	
12458 KMO-11	05/12/2014	< 1	< 1	< 1	< 2	3	< 5	< 0 023	< 5	< 10	< 5	< 100	< 10	11	< 5	< 5	< 1	
12458 KMO-12	05/12/2014	< 1	< 1	< 1	< 2	19	< 5	< 0 021	< 5	< 10	18	< 100	130	170	< 5	< 5	< 1	
12458 KMO-17	05/12/2014	13	95	80	188	< 1	38	< 0 021	< 5	< 10	< 5	< 100	< 10	41	< 5	< 5	< 1	
12458 KMO-18	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0 021	< 5	< 10	< 5	< 100	< 10	< 10	< 5	< 5	< 1	

Notes

1 Concentrations in µg/L (micrograms per liter)

2 "<" = Not present above analytical method detection limit (detection limit in µg/l)

3 J = Estimated result

4 NA = Not Analyzed, NSP = Well not sampled-due to free product; NSD = Well not Sampled-due to Dry Well

5 --- = No Data

FIGURES

Sample ID	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene	1,2-Dibromoethane (EDB)	1,2-Dichloroethane (EDC)	Methyl tert-butyl ether (MTBE)	Tert-butyl alcohol (TBA)	Diisopropyl ether (DIPE)	Ethyl tert-butyl ether (ETBE)	tert-Amyl methyl ether (TAME)	1,4-Dioxane	Ethanol	1,3-Butadiene
MW-1	<0.5	<0.5	<0.5	<0.5	<1.1	<0.01	<0.01	<0.5	<5.0	<0.5	<0.5	<0.5	<1.1	<0.1	<1.1
MW-2	<0.5	<0.5	<0.5	<0.5	<1.1	<0.01	<0.01	<0.5	<5.0	<0.5	<0.5	<0.5	<1.1	<0.1	<1.1
MW-3	<0.5	<0.5	<0.5	<0.5	<1.1	<0.01	<0.01	<0.5	<5.0	<0.5	<0.5	<0.5	<1.1	<0.1	<1.1
MW-4	<0.5	<0.5	<0.5	<0.5	<1.1	<0.01	<0.01	<0.5	<5.0	<0.5	<0.5	<0.5	<1.1	<0.1	<1.1
MW-5	<0.5	<0.5	<0.5	<0.5	<1.1	<0.01	<0.01	<0.5	<5.0	<0.5	<0.5	<0.5	<1.1	<0.1	<1.1
MW-6	<0.5	<0.5	<0.5	<0.5	<1.1	<0.01	<0.01	<0.5	<5.0	<0.5	<0.5	<0.5	<1.1	<0.1	<1.1
MW-7	<0.5	<0.5	<0.5	<0.5	<1.1	<0.01	<0.01	<0.5	<5.0	<0.5	<0.5	<0.5	<1.1	<0.1	<1.1
MW-8	<0.5	<0.5	<0.5	<0.5	<1.1	<0.01	<0.01	<0.5	<5.0	<0.5	<0.5	<0.5	<1.1	<0.1	<1.1
MW-9	<0.5	<0.5	<0.5	<0.5	<1.1	<0.01	<0.01	<0.5	<5.0	<0.5	<0.5	<0.5	<1.1	<0.1	<1.1
MW-10	<0.5	<0.5	<0.5	<0.5	<1.1	<0.01	<0.01	<0.5	<5.0	<0.5	<0.5	<0.5	<1.1	<0.1	<1.1
MW-11	<0.5	<0.5	<0.5	<0.5	<1.1	<0.01	<0.01	<0.5	<5.0	<0.5	<0.5	<0.5	<1.1	<0.1	<1.1
KMO	<0.5	<0.5	<0.5	<0.5	<1.1	<0.01	<0.01	<0.5	<5.0	<0.5	<0.5	<0.5	<1.1	<0.1	<1.1
KEROSEN	<0.5	<0.5	<0.5	<0.5	<1.1	<0.01	<0.01	<0.5	<5.0	<0.5	<0.5	<0.5	<1.1	<0.1	<1.1
KMO #117 EZ GO SERVICE STATION	9,400	11,000	1,000	2,300	5,900	5,900	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<1.1	<0.1	<1.1
KMO 1D	<0.5	<0.5	<0.5	<0.5	<1.1	<0.01	<0.01	<0.5	<5.0	<0.5	<0.5	<0.5	<1.1	<0.1	<1.1

NOTE:

TITLE **FIGURE 4 UST PERMIT # 12458**
GROUNDWATER CONCENTRATION MAP
FORMER PANTRY #585
1502 EAST GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

Cardno ATC
400 NORTHEAST DRIVE
COLUMBIA, SOUTH CAROLINA (803) 735-0003

PREP BY	REV BY	SCALE	DATE	PROJECT NUMBER
BB	JK	1" = 50'	6-26-14	014.25384.0585

APPENDIX A

FIELD DATA INFORMATION SHEETS

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Page

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 8-1-14
Field Personnel C. HAMILTON
General Weather Conditions
Ambient Air Temperature ____ °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	X	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by ____ Received by ____
Date / Time ____ Date / Time ____

Well #: MW-17

Well Diameter (D) 2 inch or ____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) ____ ft.
Depth to Free Product (DFP) ____ ft.
Depth to GW (DGW) ____ ft.

Length of Water Column (LWC=TWD-DGW) ____ ft.

1 Csg. Volume (LWC*C)= ____ X 0.163 = ____ gals.
3 Csg. Volumes = 3 X ____ = ____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling ____ gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								13:31
pH (s.u.)								22.52
Specific Cond. (umhos/cm)								6.1
Water Temp (°C)								215
Turbidity (*)								212
D.O. Reading								0.86

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks: 13:06 FIELD BLANK (FB) TAKEN, 13:36 DUP TAKEN, MODERATE ODOR

APPENDIX B

LABORATORY ANALYTICAL RESULTS

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Case Narrative for:

CARDNO ATC

Certificate of Analysis Number:

L0046184

Report To:		Project Name:	014.25384.0585
CARDNO ATC		Site:	PANTRY #585 FORMER 81 FOOD MAR
JESSE KEEFFE		Site Address:	
400 NORTHEAST DR, UNIT Q			
COLUMBIA		PO Number:	
SC		State:	South Carolina
29203-		State Cert. No.:	73004001
ph: (803) 735-0003	fax:	Date Reported:	8/6/2014

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data for those samples spiked by the laboratory and may be applicable to other samples of similar matrix from the site. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB) The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process. If insufficient sample is supplied for MS/MSD, a Laboratory Control Sample (LCS) and a Laboratory Control Sample Duplicate (LCSD) are reported with the analytical batch and serve as the batch quality control (QC).

Results are reported on a Wet Weight Basis unless otherwise noted in the sample unit field as -dry

The collection of samples using encores, terracores or other field collection devices may result in inconsistent initial sample weights for the parent sample and MS/MSD samples.

The MS/MSD recovery and precision data are calculated based on detected spike concentrations that are adjusted for initial sample weights. As a result of the variability between initial sample weights, the calculated RPD may have increased bias.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

Accutest Gulf Coast is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Christina H Larriviere

Christina Larriviere
Project Manager

8/6/2014
Date

Test results meet all requirements of NELAC, unless specified in the narrative.

Version 2.1 - Modified February 11, 2011

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

CARDNO ATC

Certificate of Analysis Number:

L0046184

Report To: CARDNO ATC
JESSE KEEFFE
400 NORTHEAST DR, UNIT Q

COLUMBIA
SC
29203-
ph: (803) 735-0003 fax:

Fax To:

Project Name: 014.25384.0585
Site: PANTRY #585 FORMER 81 FOOD MAR
Site Address:

PO Number:
State: South Carolina
State Cert. No.: 73004001
Date Reported: 8/6/2014

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
12458 MW-17	L0046184-01	Water	08/01/2014 13:31	8/2/2014 9:40:00 AM		☐
12458 DUP	L0046184-02	Water	08/01/2014 13:36	8/2/2014 9:40:00 AM		☐
12458 FB	L0046184-03	Water	08/01/2014 13:06	8/2/2014 9:40.00 AM		☐
12458 TRIP BLANK	L0046184-04	Water	08/01/2014 8:00	8/2/2014 9:40:00 AM		☐

Christina Larriviere
Project Manager

8/6/2014
Date

Ron Benjamin
Laboratory Director

Karen Rodrigue-Varnado
Quality Assurance Officer

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8/6/2014 3 51 16 PM

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID 12458 MW-17 **Collected:** 08/01/2014 13 31 **Lab Sample ID:** L0046184-01

Site: **PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1**

Analyses/Method	Result	QUAL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP				**MCL**	**SW8011**	**Units: ug/L**		
1,2-Dibromoethane	ND		0.021		1	08/04/14 23:55	DF	5658428
Surr: 1-Chloro-2-fluorobenzene	106		% 32-169		1	08/04/14 23:55	DF	5658428

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	08/04/2014 9:36	CNR	1.03

VOLATILE ORGANICS:METHOD 8260B				MCL	SW8260B	Units: ug/L		
3,3-Dimethyl-1-butanol	ND		500		50	08/05/14 13:14	NN	5660312
Diisopropyl ether	ND		250	150	50	08/05/14 13:14	NN	5660312
Ethanol	ND		5000	1000	50	08/05/14 13:14	NN	5660312
t-Butyl alcohol	ND		500	1400	50	08/05/14 13:14	NN	5660312
tert-Amyl alcohol	**2300**	**>MCL**	**500**	**240**	**50**	**08/05/14 13:14**	**NN**	**5660312**
tert-Amyl methyl ether	ND		250	128	50	08/05/14 13:14	NN	5660312
tert-Butyl ethyl ether	ND		250	47	50	08/05/14 13:14	NN	5660312
tert-Butyl formate	ND		50	100	50	08/05/14 13:14	NN	5660312
1,2-Dichloroethane	ND		250		50	08/05/14 13:14	NN	5660312
Benzene	4000		50		50	08/05/14 13:14	NN	5660312
Ethylbenzene	1500		50		50	08/05/14 13:14	NN	5660312
Methyl tert-butyl ether	ND		50		50	08/05/14 13:14	NN	5660312
Naphthalene	610		250		50	08/05/14 13:14	NN	5660312
Toluene	19000		50		50	08/05/14 13:14	NN	5660312
m,p-Xylene	6800		100		50	08/05/14 13:14	NN	5660312
o-Xylene	3200		100		50	08/05/14 13 14	NN	5660312
Xylenes,Total	10000		100		50	08/05/14 13 14	NN	5660312
Surr: 1,2-Dichloroethane-d4	94.8		% 84-124		50	08/05/14 13:14	NN	5660312
Surr: 4-Bromofluorobenzene	100		% 89-111		50	08/05/14 13:14	NN	5660312
Surr: Toluene-d8	102		% 83-115		50	08/05/14 13:14	NN	5660312

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

8/6/2014 3 51 35 PM

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID 12458 DUP **Collected:** 08/01/2014 13:36 **Lab Sample ID:** L0046184-02

Site: **PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1**

Analyses/Method	Result	QUAL		Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP					**MCL**		**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND			0.021		1	08/05/14 0:16	DF	5658433
Surr: 1-Chloro-2-fluorobenzene	69.7		%	32-169		1	08/05/14 0:16	DF	5658433

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	08/04/2014 9 36	CNR	1.06

VOLATILE ORGANICS:METHOD 8260B					MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND			500		50	08/05/14 13:43	NN	5660313
Diisopropyl ether	ND			250	150	50	08/05/14 13:43	NN	5660313
Ethanol	ND			5000	1000	50	08/05/14 13.43	NN	5660313
t-Butyl alcohol	ND			500	1400	50	08/05/14 13 43	NN	5660313
tert-Amyl alcohol	**2900**	**>MCL**		**500**	**240**	**50**	**08/05/14 13:43**	**NN**	**5660313**
tert-Amyl methyl ether	ND			250	128	50	08/05/14 13:43	NN	5660313
tert-Butyl ethyl ether	ND			250	47	50	08/05/14 13 43	NN	5660313
tert-Butyl formate	ND			50	100	50	08/05/14 13:43	NN	5660313
1,2-Dichloroethane	ND			250		50	08/05/14 13:43	NN	5660313
Benzene	3900			50		50	08/05/14 13:43	NN	5660313
Ethylbenzene	1500			50		50	08/05/14 13:43	NN	5660313
Methyl tert-butyl ether	ND			50		50	08/05/14 13:43	NN	5660313
Naphthalene	620			250		50	08/05/14 13:43	NN	5660313
Toluene	19000			50		50	08/05/14 13:43	NN	5660313
m,p-Xylene	6700			100		50	08/05/14 13 43	NN	5660313
o-Xylene	3200			100		50	08/05/14 13:43	NN	5660313
Xylenes,Total	9900			100		50	08/05/14 13:43	NN	5660313
Surr. 1,2-Dichloroethane-d4	96.5		%	84-124		50	08/05/14 13:43	NN	5660313
Surr: 4-Bromofluorobenzene	101		%	89-111		50	08/05/14 13:43	NN	5660313
Surr: Toluene-d8	102		%	83-115		50	08/05/14 13:43	NN	5660313

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID 12458 FB **Collected:** 08/01/2014 13:06 **Lab Sample ID:** L0046184-03

Site: **PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1**

Analyses/Method	Result	QUAL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
EDB & DBCP				**MCL**		**SW8011**	**Units: ug/L**	
1,2-Dibromoethane	ND		0.021		1	08/05/14 0.59	DF	5658430
Surr: 1-Chloro-2-fluorobenzene	100		% 32-169		1	08/05/14 0 59	DF	5658430

Prep Method	Prep Date	Prep Initials	Prep Factor
E504	08/04/2014 9:36	CNR	1.04

VOLATILE ORGANICS:METHOD 8260B				MCL		SW8260B	Units: ug/L	
3,3-Dimethyl-1-butanol	ND		10		1	08/05/14 2:35	NN	5658467
Diisopropyl ether	ND		5	150	1	08/05/14 2:35	NN	5658467
Ethanol	ND		100	1000	1	08/05/14 2.35	NN	5658467
t-Butyl alcohol	ND		10	1400	1	08/05/14 2:35	NN	5658467
tert-Amyl alcohol	ND		10	240	1	08/05/14 2.35	NN	5658467
tert-Amyl methyl ether	ND		5	128	1	08/05/14 2:35	NN	5658467
tert-Butyl ethyl ether	ND		5	47	1	08/05/14 2:35	NN	5658467
tert-Butyl formate	ND		1	100	1	08/05/14 2.35	NN	5658467
1,2-Dichloroethane	ND		5		1	08/05/14 2:35	NN	5658467
Benzene	ND		1		1	08/05/14 2:35	NN	5658467
Ethylbenzene	ND		1		1	08/05/14 2:35	NN	5658467
Methyl tert-butyl ether	ND		1		1	08/05/14 2:35	NN	5658467
Naphthalene	ND		5		1	08/05/14 2:35	NN	5658467
Toluene	ND		1		1	08/05/14 2:35	NN	5658467
m,p-Xylene	ND		2		1	08/05/14 2:35	NN	5658467
o-Xylene	ND		2		1	08/05/14 2:35	NN	5658467
Xylenes,Total	ND		2		1	08/05/14 2:35	NN	5658467
Surr: 1,2-Dichloroethane-d4	95.2		% 84-124		1	08/05/14 2:35	NN	5658467
Surr: 4-Bromofluorobenzene	99.3		% 89-111		1	08/05/14 2 35	NN	5658467
Surr: Toluene-d8	101		% 83-115		1	08/05/14 2 35	NN	5658467

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

8/6/2014 3 51 47 PM

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID 12458 TRIP BLANK **Collected:** 08/01/2014 8:00 **Lab Sample ID:** L0046184-04

Site: **PANTRY #585 FORMER 81 FOOD MART (DHEC UST #1**

Analyses/Method	Result	QUAL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B				**MCL**	**SW8260B**	**Units: ug/L**		
3,3-Dimethyl-1-butanol	ND		10		1	08/04/14 20 52	NN	5658460
Diisopropyl ether	ND		5	150	1	08/04/14 20:52	NN	5658460
Ethanol	ND		100	1000	1	08/04/14 20 52	NN	5658460
t-Butyl alcohol	ND		10	1400	1	08/04/14 20 52	NN	5658460
tert-Amyl alcohol	ND		10	240	1	08/04/14 20:52	NN	5658460
tert-Amyl methyl ether	ND		5	128	1	08/04/14 20:52	NN	5658460
tert-Butyl ethyl ether	ND		5	47	1	08/04/14 20:52	NN	5658460
tert-Butyl formate	ND		1	100	1	08/04/14 20:52	NN	5658460
1,2-Dichloroethane	ND		5		1	08/04/14 20:52	NN	5658460
Benzene	ND		1		1	08/04/14 20:52	NN	5658460
Ethylbenzene	ND		1		1	08/04/14 20:52	NN	5658460
Methyl tert-butyl ether	ND		1		1	08/04/14 20:52	NN	5658460
Naphthalene	ND		5		1	08/04/14 20:52	NN	5658460
Toluene	ND		1		1	08/04/14 20:52	NN	5658460
m,p-Xylene	ND		2		1	08/04/14 20:52	NN	5658460
o-Xylene	ND		2		1	08/04/14 20:52	NN	5658460
Xylenes,Total	ND		2		1	08/04/14 20:52	NN	5658460
Surr: 1,2-Dichloroethane-d4	101	%	84-124		1	08/04/14 20:52	NN	5658460
Surr: 4-Bromofluorobenzene	97.5	%	89-111		1	08/04/14 20:52	NN	5658460
Surr: Toluene-d8	101	%	83-115		1	08/04/14 20:52	NN	5658460

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

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Quality Control Documentation

Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

CARDNO ATC

014.25384.0585

Analysis: EDB & DBCP
Method: SW8011
WorkOrder: L0046184
Lab Batch ID: 134013

Method Blank

RunID: PCBB_140804A-5658410 Units ug/L
Analysis Date: 08/04/2014 17:33 Analyst: DF
Preparation Date. 08/04/2014 9.36 Prep By: CNR Method E504

Analyte	Result	Rep Limit
1,2-Dibromoethane	ND	0.020
Surr 1-Chloro-2-fluorobenzene	116 2	32-169

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
L0046184-01B	12458 MW-17
L0046184-02B	12458 DUP
L0046184-03B	12458 FB

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: PCBB_140804A-5658411 Units: ug/L
Analysis Date: 08/04/2014 17.54 Analyst: DF
Preparation Date: 08/04/2014 9:36 Prep By CNR Method E504

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1,2-Dibromoethane	0.570	0.558	97.8	0.570	0.711	125	24.1	30	60	140
Surr: 1-Chloro-2-fluorobenzene	143	154	108	143	155	108	0.6	30	32	169

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked L0046121-03
RunID: PCBB_140804A-5658416 Units ug/L
Analysis Date: 08/04/2014 19:40 Analyst: DF
Preparation Date: 08/04/2014 9:36 Prep By: CNR Method E504

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
1,2-Dibromoethane	ND	0.587	0.627	107	0.58	0.618	106	1.52	30	60	140
Surr: 1-Chloro-2-fluorobenzene	ND	147	170	115	145	169	116	0.744	30	32	169

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

CARDNO ATC

014.25384.0585

Analysis: Volatile Organics:Method 8260B
Method: SW8260B
WorkOrder: L0046184
Lab Batch ID: R339338

Method Blank

RunID: GCMS1Q_140804D-5658458 Units: ug/L
Analysis Date. 08/04/2014 18:58 Analyst: NN

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
L0046184-03A	12458 FB
L0046184-04A	12458 TRIP BLANK

Analyte	Result	Rep Limit
1,2-Dichloroethane	ND	5 0
3,3-Dimethyl-1-butanol	ND	10
Benzene	ND	1.0
Diisopropyl ether	ND	5 0
Ethanol	ND	100
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	1 0
Naphthalene	ND	5 0
t-Butyl alcohol	ND	10
tert-Amyl alcohol	ND	10
tert-Amyl methyl ether	ND	5 0
tert-Butyl ethyl ether	ND	5 0
tert-Butyl formate	ND	1.0
Toluene	ND	1 0
m,p-Xylene	ND	2 0
o-Xylene	ND	2 0
Xylenes,Total	ND	2 0
Surr. 1,2-Dichloroethane-d4	97 8	84-124
Surr 4-Bromofluorobenzene	99 6	89-111
Surr Toluene-d8	103 6	83-115

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: GCMS1Q_140804D-565845 Units: ug/L
Analysis Date: 08/04/2014 18:01 Analyst: NN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1,2-Dichloroethane	20.0	18.1	90.3	20.0	17 7	88.3	2 3	10	74	127
3,3-Dimethyl-1-butanol	200	208	104	200	191	95.5	8.6	30	70	130
Benzene	20.0	18 8	94 0	20.0	18.5	92.5	1.6	10	82	119
Diisopropyl ether	20.0	19.9	99.5	20 0	19.3	96.4	3.2	10	71	126
Ethanol	400	411	103	400	371	92.9	10.1	30	70	130

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

CARDNO ATC

014.25384.0585

Analysis: **Volatile Organics:Method 8260B** **WorkOrder:** **L0046184**
Method: **SW8260B** **Lab Batch ID:** **R339338**

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: GCMS1Q_140804D-565845 Units: ug/L
Analysis Date: 08/04/2014 18:01 Analyst: NN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Ethylbenzene	20.0	20.3	101	20 0	19 6	98.2	3.2	10	84	117
Methyl tert-butyl ether	20 0	20.8	104	20.0	19.8	99.1	4.9	30	75	126
Naphthalene	20.0	22.4	112	20.0	20.4	102	9.7	22	74	130
t-Butyl alcohol	200	213	107	200	183	91.4	15 2	30	70	130
tert-Amyl alcohol	200	202	101	200	184	91.8	9.4	30	70	130
tert-Amyl methyl ether	20.0	19.7	98.4	20.0	18.7	93.7	4 9	11	80	121
tert-Butyl ethyl ether	20.0	20.6	103	20.0	20.5	102	0.7	10	77	123
tert-Butyl formate	20.0	18.9	94.6	20.0	17.9	89.5	5 6	14	70	130
Toluene	20.0	19.3	96.3	20.0	18.8	94 0	2 4	10	80	121
m,p-Xylene	40.0	42.0	105	40 0	41.4	104	1.4	10	82	121
o-Xylene	20.0	20.9	105	20 0	20.3	102	3.0	10	84	119
Xylenes,Total	60.0	62.9	105	60 0	61.7	103	1.9	9	81	122
Surr: 1,2-Dichloroethane-d4	50.0	49.8	99.5	50.0	50.7	101	1.9	30	84	124
Surr: 4-Bromofluorobenzene	50.0	50 5	101	50.0	50.4	101	0.3	30	89	111
Surr: Toluene-d8	50.0	49.8	99.7	50.0	49.5	99.0	0 6	30	83	115

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: L0046165-01
RunID: GCMS1Q_140804D-565846 Units: ug/L
Analysis Date: 08/05/2014 4:01 Analyst: NN

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
1,2-Dichloroethane	ND	100	93.9	93.9	100	94.1	94.1	0.196	10	74	127
3,3-Dimethyl-1-butanol	ND	1000	1010	101	1000	1000	100	0.702	37	70	130

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

8/6/2014 3 52 15 PM

Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

CARDNO ATC

014.25384.0585

Analysis: **Volatile Organics:Method 8260B** **WorkOrder:** **L0046184**
Method: **SW8260B** **Lab Batch ID:** **R339338**

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: L0046165-01
RunID. GCMS1Q_140804D-565846 Units ug/L
Analysis Date: 08/05/2014 4 01 Analyst: NN

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	100	96.9	96.9	100	95.1	95.1	1.82	10	82	119
Diisopropyl ether	ND	100	99.2	99 2	100	96.6	96 6	2.61	10	71	126
Ethanol	ND	2000	2020	101	2000	1950	97 5	3.33	40	70	130
Ethylbenzene	ND	100	97 5	97.5	100	95.6	95.6	1.91	10	84	117
Methyl tert-butyl ether	ND	100	102	102	100	101	101	0.764	40	75	126
Naphthalene	ND	100	101	101	100	99.2	99.2	1.60	22	74	130
t-Butyl alcohol	ND	1000	1120	112	1000	1100	110	1.59	40	70	130
tert-Amyl alcohol	ND	1000	1030	103	1000	1040	104	0.869	35	70	130
tert-Amyl methyl ether	ND	100	103	103	100	94.3	94.3	8.76	11	80	121
tert-Butyl ethyl ether	ND	100	101	101	100	97.6	97.6	3.34	10	77	123
tert-Butyl formate	ND	100	13.4	13.4 *	100	10.6	10 6 *	23.3 *	14	70	130
Toluene	ND	100	96.0	96.0	100	92.7	92.7	3 53	10	80	121
m,p-Xylene	ND	200	201	101	200	196	97.8	2 74	10	82	121
o-Xylene	ND	100	99.2	99 2	100	96.7	96.7	2.56	10	84	119
Xylenes,Total	ND	300	300.2	100.1	300	292.7	97.46	2.680	9	81	122
Surr: 1,2-Dichloroethane-d4	ND	250	236	94.4	250	243	97 3	3.08	30	84	124
Surr: 4-Bromofluorobenzene	ND	250	252	101	250	256	102	1.25	30	89	111
Surr· Toluene-d8	ND	250	257	103	250	256	102	0.644	30	83	115

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

8/6/2014 3 52 16 PM

Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

CARDNO ATC

014.25384.0585

Analysis: **Volatile Organics:Method 8260B** **WorkOrder:** **L0046184**
Method: **SW8260B** **Lab Batch ID:** **R339446**

Method Blank

RunID. GCMS1Q_140805B-5660310 Units: ug/L
Analysis Date. 08/05/2014 10:51 Analyst: NN

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
L0046184-01A	12458 MW-17
L0046184-02A	12458 DUP

Analyte	Result	Rep Limit
1,2-Dichloroethane	ND	5 0
3,3-Dimethyl-1-butanol	ND	10
Benzene	ND	1 0
Diisopropyl ether	ND	5.0
Ethanol	ND	100
Ethylbenzene	ND	1 0
Methyl tert-butyl ether	ND	1 0
Naphthalene	ND	5 0
t-Butyl alcohol	ND	10
tert-Amyl alcohol	ND	10
tert-Amyl methyl ether	ND	5 0
tert-Butyl ethyl ether	ND	5.0
tert-Butyl formate	ND	1 0
Toluene	ND	1.0
m,p-Xylene	ND	2 0
o-Xylene	ND	2.0
Xylenes,Total	ND	2 0
Surr: 1,2-Dichloroethane-d4	94 3	84-124
Surr: 4-Bromofluorobenzene	101.1	89-111
Surr: Toluene-d8	101 2	83-115

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: GCMS1Q_140805B-566030 Units: ug/L
Analysis Date: 08/05/2014 9:54 Analyst: NN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
1,2-Dichloroethane	20.0	19.2	96 2	20.0	18.5	92.7	3.8	10	74	127
3,3-Dimethyl-1-butanol	200	208	104	200	191	95.7	8.2	30	70	130
Benzene	20.0	20 0	99.8	20 0	19.7	98.7	1.0	10	82	119
Diisopropyl ether	20.0	21.0	105	20 0	20.4	102	2 8	10	71	126
Ethanol	400	442	111	400	428	107	3 3	30	70	130

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

8/6/2014 3 52 19 PM

Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

CARDNO ATC

014.25384.0585

Analysis: Volatile Organics:Method 8260B **WorkOrder:** L0046184
Method: SW8260B **Lab Batch ID:** R339446

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: GCMS1Q_140805B-566030 Units: ug/L
Analysis Date: 08/05/2014 9:54 Analyst: NN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Ethylbenzene	20.0	19.9	99.7	20.0	19.4	97.1	2.6	10	84	117
Methyl tert-butyl ether	20.0	21.3	107	20.0	20.7	104	2.9	30	75	126
Naphthalene	20.0	21.2	106	20.0	20.7	103	2.4	22	74	130
t-Butyl alcohol	200	239	120	200	225	112	6.4	30	70	130
tert-Amyl alcohol	200	224	112	200	213	107	5.2	30	70	130
tert-Amyl methyl ether	20 0	20.8	104	20.0	20.1	100	3 3	11	80	121
tert-Butyl ethyl ether	20 0	21 4	107	20.0	20.7	103	3.5	10	77	123
tert-Butyl formate	20.0	20.1	100	20.0	19 1	95 5	5.0	14	70	130
Toluene	20.0	18.8	93.8	20.0	18.7	93.7	0.1	10	80	121
m,p-Xylene	40.0	42.1	105	40.0	39.9	99.9	5.4	10	82	121
o-Xylene	20.0	20.5	103	20.0	19.6	98 1	4.6	10	84	119
Xylenes,Total	60.0	62.6	104	60.0	59.5	99.3	5.1	9	81	122
Surr: 1,2-Dichloroethane-d4	50.0	51.2	102	50.0	49.5	99.0	3.3	30	84	124
Surr: 4-Bromofluorobenzene	50.0	50.9	102	50.0	50.1	100	1.5	30	89	111
Surr: Toluene-d8	50.0	51.8	104	50.0	50.8	102	1.8	30	83	115

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: L0046184-02
RunID GCMS1Q_140805B-566031 Units: ug/L
Analysis Date: 08/05/2014 19:55 Analyst: NN

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
1,2-Dichloroethane	ND	1000	874	87.4	1000	880	88.0	0.671	10	74	127
3,3-Dimethyl-1-butanol	ND	10000	9660	96.6	10000	10500	105	8.56	37	70	130

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

8/6/2014 3 52 20 PM

Version 2.1 - Modified February 11, 2011

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

CARDNO ATC

014.25384.0585

Analysis: Volatile Organics:Method 8260B
Method: SW8260B
WorkOrder: L0046184
Lab Batch ID: R339446

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: L0046184-02
RunID: GCMS1Q_140805B-566031 Units. ug/L
Analysis Date: 08/05/2014 19:55 Analyst: NN

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	3890	1000	4630	73.5 *	1000	4650	75.3 *	0.379	10	82	119
Diisopropyl ether	ND	1000	933	89.6	1000	975	93.8	4.39	10	71	126
Ethanol	ND	20000	16900	84.6	20000	20500	103	19.3	40	70	130
Ethylbenzene	1490	1000	2450	96.0	1000	2480	99.5	1.39	10	84	117
Methyl tert-butyl ether	ND	1000	864	86.4	1000	889	88.9	2.86	40	75	126
Naphthalene	618	1000	1690	107	1000	1770	115	4.96	22	74	130
t-Butyl alcohol	ND	10000	10600	106	10000	11800	118	10.5	40	70	130
tert-Amyl alcohol	2930	10000	13000	101	10000	14200	113	8.79	35	70	130
tert-Amyl methyl ether	ND	1000	981	98.1	1000	970	97.0	1.07	11	80	121
tert-Butyl ethyl ether	ND	1000	918	91.8	1000	968	96.8	5 34	10	77	123
tert-Butyl formate	ND	1000	861	86.1	1000	953	95 3	10.1	14	70	130
Toluene	18700	1000	18600	N/C	1000	18900	N/C	N/C	10	80	121
m,p-Xylene	6690	2000	8390	85.2	2000	8490	90.0	1.13	10	82	121
o-Xylene	3200	1000	4110	90.4	1000	4210	100	2.42	10	84	119
Xylenes,Total	9890	3000	12500	86.9	3000	12700	93.5	1.55	9	81	122
Surr: 1,2-Dichloroethane-d4	ND	2500	2330	93.0	2500	2430	97.2	4.39	30	84	124
Surr: 4-Bromofluorobenzene	ND	2500	2500	100	2500	2580	103	3.12	30	89	111
Surr. Toluene-d8	ND	2500	2540	102	2500	2500	100	1.67	30	83	115

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added Control limits do not apply.
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QC results presented on the QC Summary Report have been rounded RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

8/6/2014 3 52 21 PM

Version 2.1 - Modified February 11, 2011

Sample Receipt Checklist
And
Chain of Custody

ACCUTEST LABORATORIES

ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Sample Receipt Checklist

Workorder:	**L0046184**	Received By:	**HJC**
Date and Time Received:	**8/2/2014 9:40:00 AM**	Carrier name:	**FedEx-Pri Saturday Del**
Temperature:	**4.4°C**	Chilled by:	**Water Ice**

		Yes	No		
1.	**Shipping container/cooler in good condition?**	☑	☐	Not Present	☐
2.	**Custody seals intact on shippping container/cooler?**	☑	☐	Not Present	☐
3.	**Custody seals intact on sample bottles?**	☐	☐	Not Present	☑
4.	**Chain of custody present?**	☑	☐		
5.	**Chain of custody signed when relinquished and received?**	☑	☐		
6.	**Chain of custody agrees with sample labels?**	☑	☐		
7.	**Samples in proper container/bottle?**	☑	☐		
8.	**Sample containers intact?** REC'D 1 BROKEN VIAL FOR DUP	☐	☑		
9.	**Sufficient sample volume for indicated test?**	☑	☐		
10.	**All samples received within holding time?**	☑	☐		
11.	**Container/Temp Blank temperature in compliance?**	☑	☐		
12.	**Water - VOA vials have zero headspace?**	☑	☐	VOA Vials Not Present	☐
13.	**Water - Preservation checked upon receipt (except VOA*)?**	☐	☐	Not Applicable	☑

***VOA Preservation Checked After Sample Analysis**

Accutest Representative:

Contact Date & Time:

Client Name Contacted:

Non Conformance Issues: sufficient volume for analysis

Client Instructions:

ACCUTEST® LABORATORIES

CHAIN OF CUSTODY

Accutest Gulf Coast
500 Ambassador Caffery Pkwy, Scott, LA 70583
TEL 337-237-4775 FAX: 337-237-7838
www.accutest.com

LSR-F005.00

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: L0046184

Client / Reporting Information

Company Name: CARDNO
Street Address: 400 NORTHEAST DRIVE STE. G
City: COLUMBIA State: SC Zip: 29203
Project Contact: JESSE KEEFE E-mail:
Phone #: 803-735-0003 Fax #:
Sampler(s) Name(s): C. HAMILTON Phone #: 803-735-0003

Project Information

Project Name: PANTRY 585 (FORMER) UST #12458
Street: 1502 E. GREENVILLE ST.
City: ANDERSON State: SC
Project #: 014.25384.0585
Client Purchase Order #:
Project Manager:
Billing Information (if different from Report to)
Company Name:
Street Address:
City: State: Zip:
Attention:

Requested Analyses

Accutest Sample #	Field ID / Point of Collection	Date	Time	Sampled By	Matrix	# of bottles	HCl	NaOH	ZnAc/NaOH	HNO3	H2SO4	NONE	DI Water	MeOH	TSP	NaHSO4	ENCORE	OTHER	8260B (BTEX, MTBE, NAPH, 1,2 DCA, 1,8 DIXOXANES)	8011 (EDB)									Matrix Codes
12458	MW-17	8-1-14	13:31	CH	GW	6	6												3	3									
	DUP		13:36		GW																							5	
	FB		13:06		FB																							6	
	TRIP BLANK		08:00		TB	3	3																					3	

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

LAB USE ONLY

Turnaround Time (Business days)

- [X] Standard
- [ ] 5 Day *RUSH*
- [ ] 4 Day *RUSH*
- [ ] 3 Day *RUSH*
- [ ] 2 Day *RUSH*
- [ ] 1 Day *EMERGENCY*

Approved By (Accutest PM): / Date:

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULT1 (Level 3+4)
- [ ] REDT1 (Level 3+4)
- [ ] Commercial "C"
- [ ] TRRP
- [ ] EDD Format
- [ ] Other _____

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC & Surrogate Summary

Comments / Special Instructions

BS-133 (FS)
RS-344 (B)

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time	Received By:	Relinquished By	Date Time	Received By:
1 CHRIS HAMILTON	8-1-14 17:00	1 FED EX 8-1-14 17:00	2 Fedex	08/02/14	2 Accutest (HC)
3 Accutest (M)	8-02-14 0944	3 [illegible]	4	Date Time:	4
5	Date Time:	5	Custody Seal # [illegible]	Intact / Not intact	Preserved where applicable

On Ice: ✓ Cooler Temp. [illegible]

FedEx Ship Manager - Print Your Label(s)

(803) 735-0003
Jaden Belding
ATC Associates
400 Northeast Drive, Unit Q

Columbia, SC 29203

Origin ID: USCA

FedEx. Express

J1420140619 03uv

Ship Date: 01AUG14
ActWgt: 50.0 LB
CAD: 8790804/INET3550

Delivery Address Bar Code

Ref # Pantry #323 Samples
Invoice #
PO #
Dept #

SHIP TO: (337) 237-4775 BILL RECIPIENT

Attn: Sample Management
Accutest Labs
500 AMBASSADOR CAFFERY PKWY

SCOTT, LA 70583

SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK# 0201 7707 4646 0426

X0 LFTA

70583
LA-US
LFT

522G2/ED4F/6AC9

Page 18 of 18

R5-344

APPENDIX C

DISPOSAL CERTIFICATE

Cardno ATC

Shaping the Future

Cardno ATC

400 Northeast Drive
Unit Q
Columbia, SC 29203

Phone **+1 803 735 0003**
Fax +1 803 735 0443
www.cardno.com

www.cardnoatc.com

August 8, 2014

Re: Treatment of Purge Water
Former Pantry #585 / 81 Food Mart
Anderson, South Carolina
UST Permit #12458

To Whom It May Concern:

Cardno submits this letter as certification of treatment of purge water at the **Former Pantry #585 / 81 Food Mart** facility complied with the adsorption use of portable activated carbon units for the treatment of small volumes of suspected petroleum hydrocarbon contaminated groundwater. Water is treated on site with pour through\up flow treatment container filled with activated carbon. The carbon will be replaced or reactivated at 8,000 gallons of treated water or once total organic compound exceed manufacture conditions of 3.5 pounds. Data concerning gallons treated or adsorption capacity is available upon request. Should you have any questions or require additional information, please contact me at 735-0003.

The water obtained from development\sampling the groundwater monitoring wells at the site was treated with activated carbon. A total of **247.75** gallons of water was treated at the site on May 12, 13, and 31, 2014.

No free product was detected in any of the well water to be treated.

Cardno maintains records of treated water.

The carbon will be replaced or reactivated every 8,000 gallons.

Petroleum hydrocarbons analytical results from the site wells report Benzene concentrations at 23,000 parts per billion (ppb) or less and total BTEX concentrations at 55,100 ppb or less.

Recommendations issued by SCDHEC and the manufacturer have and will be followed.

Development\sampling purge water from all wells is mixed before treatment with the activated carbon.

Cardno

Braden Belding

Braden Belding
Staff Geologist

APPENDIX D

SCDHEC QAPP APPENDIX K

Contractor Verification Checklist

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

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

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

Explanation for missing and incomplete information

The directive and QAPP for this site involves the work done for a Groundwater Monitoring Report. Any information that was not required or approved in the QAPP for the scope of work was not included.

APPENDIX E

SCDHEC QAPP APPENDIX M

UST Permit # 12458

Former Pantry 585 (Facility Name)

Date	Current Status	Deficiency	Corrective Action Taken	Date Deficiency resolved
8-7-14	Laboratory Analysis	Relative Percentage Analysis exceeded 20% for Duplicate samples ~~[illegible]~~ their respective Groundwater samples	Laboratory did not find any discrepancies	8-7-14

Comments:

D H E C
PROMOTE PROTECT PROSPER
W. Marshall Taylor Jr., Acting Director
Promoting and protecting the health of the public and the environment

APR 0 6 2015

BRENT PUZAK
PANTRY INC
PO BOX 1410
SANFORD NC 27331-1410

UST 49 tech DOCKETING

Re: **Site Specific Work Plan Directive**
Former 81 Food Mart, 1502 E Greenville Hwy., Greenville, SC
Permit # 12458
Release reported November 10, 1992
Report received August 12, 2014
Anderson County

Dear Mr. Puzak:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the referenced report.

To evaluate the current site conditions, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, please have your contractor develop a Site Specific Work Plan for a groundwater sampling event. Sampling should include all of the monitoring wells, trip blanks, field blanks, and field duplicates for BTEX, naphthalene, 1,2-DCA, MTBE, oxygenates, and EDB. The groundwater sampling event should be conducted in accordance with the UST Quality Assurance Program Plan Revision 2.0 and must be conducted in compliance with all applicable regulations. A copy of QAPP Revision 2.0 for the Underground Storage Tank Division is available at http://www.scdhec.gov/environment/docs/QAPP_Rev-2_April2013.pdf.

Please have your contractor submit the Site Specific Work Plan and Cost Agreement within thirty days of the date of this letter. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. **Please note that technical and financial pre-approval from the Agency must be issued before work begins.**

On all correspondence concerning this site, please reference UST Permit #12458. If you have any questions, please contact me at (803) 898-0608 or by e-mail at minerrs@dhec.sc.gov.

Sincerely,

Read S. Miner

Read S. Miner, P.G., Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Technical File
Cardno ATC, 400 Northeast Dr., Ste. Q, Columbia, SC 29203-5182

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

JAN 11 2008

MS RENEE' THOMAS
PANTRY INC
PO BOX 1410
SANFORD NC 27331-1410

Re: Assessment Report Plan
81 Food Mart (Former Pantry #585), 1502 East Greenville Street, Anderson, SC
UST Permit #12458
Release reported November 10, 1992
Groundwater Assessment Report received December 21, 2007
Anderson County

Dear Ms. Thomas:

The Underground Storage Tank (UST) Program of the South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed the report submitted by ATC Associates, Incorporated on your behalf. The UST Program has determined additional assessment activities are required to remove free phase product from monitoring wells MW-1 and MW-5, define the vertical extent of the plume in the vicinity of MW-1, define the horizontal extent of the plume south of MW-4 and west across East Greenville street, plus screening and installation of monitoring wells to define the extent of petroleum Chemicals of Concern (CoC) in the sand layer at approximately 40 feet below the ground surface. Please see the attached maps.

To determine what risk the referenced release may pose to the environment and public health, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of the scope of work as outlined in the Tier II Assessment Guidance Document is necessary. The Tier II Assessment Guidance Document and Tier II Assessment forms are available online at http://www.scdhec.gov/eqc/admin/html/..%5C..%5Cust%5Cpubs%5Ctier2.pdf and http://webserver03.dhec.sc.gov/iieforms/d3527.pdf respectively.

Please have your contractor complete and submit the Assessment Component Cost Agreement and Assessment Plan Forms within thirty days of the date of this letter. Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. **Please note that approval from the Department must be issued before work begins.**

On all correspondence or inquiries regarding this project please reference UST permit number 12458. Should you have any questions regarding this correspondence, please feel free to contact me at (803) 896-6669. I can also be reached by email at shradeaa@dhec.sc.gov. or by fax at (803) 896-6245.

Sincerely,

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

5

Enc: Figures 4 and 8B from ATC Groundwater Assessment Report

cc: ATC Associates, Inc., 400 Northeast Drive, Suite Q, Columbia, SC 29203 (with enc.)
Technical file (with enc.)

DHEC
PROMOTE PROTECT PROSPER

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

UST APR 15 2015 DIVISION

To: Read Miner (SCDHEC Project Manager)
From: Fred Lyke (Contractor Project Manager)
Contractor: Cardno ATC UST Contractor Certification Number: 313

Facility Name: Pantry 585 (Former 81 Food Mart) UST Permit #: 12458
Facility Address: 1502 East Greenville Hwy., Greenville, SC
Responsible Party: The Pantry Inc. Phone: 9197746700
RP Address: 305 Gregson Dr., Cary, NC 27511
Property Owner (if different):
Property Owner Address:
Current Use of Property: Commercial

UST 50kcl DOCKETING

Scope of Work (Please check all that apply)

- ☐ IGWA
- ☐ Tier I
- ☐ Tier II
- ☐ Monitoring Well Installation
- ☑ Groundwater Sampling
- ☐ Other
- ☐ GAC

Analyses (Please check all that apply)

Groundwater/Surface Water:

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

Soil:

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

Air:

- ☐ BTEXN

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

0	Soil	0	Water Supply Wells	0	Air	3	Field Blank
47	Monitoring Wells	0	Surface Water	3	Duplicate	3	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: 0 Estimated Footage: 0 feet per point
# of deep points proposed: 0 Estimated Footage: 0 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: 0 Estimated Footage: 0 feet per point
# of deep wells: 0 Estimated Footage: 0 feet per point
# of recovery wells: 0 Estimated Footage: feet per point
Monitoring Well development method (consistent with SOP):
Comments, if warranted:

UST Permit #: 12458 Facility Name: Pantry 585

Implementation Schedule (Number of calendar days from approval)
Field Work Start-Up: 30 Field Work Completion: 60
Report Submittal: 60 # of Copies Provided to Property Owners: 1

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

Investigation Derived Waste Disposal
Soil: 0 Tons Purge Water: 400 Gallons
Drilling Fluids: 0 Gallons Free-Phase Product: 0 Gallons

Additional Details For This Scope of Work
For example, list wells to be sampled, wells to be abandoned/repaired, well pads/bolts/caps to replace, details of AFVR event, etc.
Cardno ATC will sample monitoring wells MW-1through MW-17, MW-18D through MW-22D, MW-23 through 31, DMW-1 through DMW-4, KMO-3, KMO-5, KMO-6, KMO-10, KMO-11, KMO-12, KMO-17, KMO-18, MW-PL-1, MW-PL-2, MW-PL-3 and IW-1.
All wells will be purged prior to sampling.

Compliance With Annual Contractor Quality Assurance Plan (ACQAP)
Y Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.
Name of Laboratory:
SCDHEC Certification Number:
Name of Laboratory Director:

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

D H E C

PROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

ASSESSMENT COMPONENT INVOICE

SOUTH CAROLINA

Department of Health and Environmental Control

Underground Storage Tank Management Division

State Underground Petroleum Environmental Response Bank Account

November 1, 2013

Facility Name: **Pantry 585 (Former 81 Food Mart)**

UST Permit #: 12458 **Cost Agreement #:**

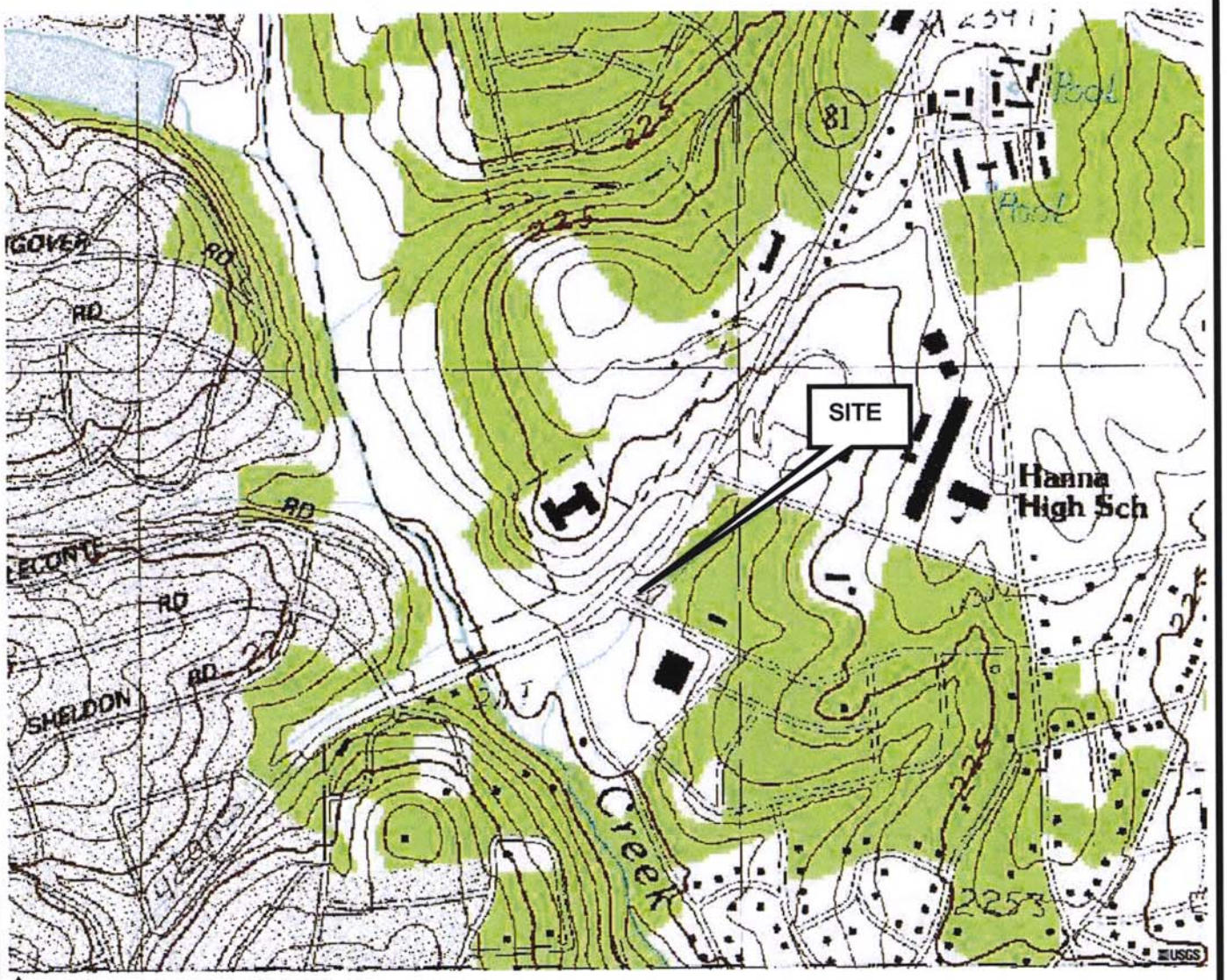
ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1. **Plan Preparation**				
A1. Site-specific Work Plan	1	each	$150.00	$150.00
B1. Tax Map		each	$70.00	$0.00
C1. Tier II or Comp. Plan /QAPP Appendix B		each	$250.00	$0.00
2. A1. **Receptor Survey ***		each	$551.00	$0.00
3. **Survey (500 ft x 500 ft)**				
A1. Comprehensive Survey		each	$1,040.00	$0.00
B. Subsurface Geophysical Survey				
1B. < 10 meters below grade		each	$1,300.00	$0.00
2B. > 10 meters below grade		each	$2,310.00	$0.00
C1. Geophysical UST or Drum Survey		each	$910.00	$0.00
4. **Mob/Demob**				
A1. Equipment		each	$1,020.00	$0.00
B1. Personnel	1	each	$423.00	$423.00
C1. Adverse Terrain Vehicle		each	$500.00	$0.00
5. A1. **Soil Borings (hand auger)***		foot	$5.00	$0.00
6. **Soil Borings (requiring equipment, push technology, etc)* or Field Screening (including water sample, soil sample, soil gas sample, etc.)***				
A1. Standard		per foot	$15.00	$0.00
C1. Fractured Rock		per foot	$20.20	$0.00
7. A1. **Soil Leachability Model**		each	$60.00	$0.00
8. **Abandonment (per foot)***				
A1. 2" diameter or less		per foot	$3.10	$0.00
B1. Greater than 2" to 6" diameter		per foot	$4.50	$0.00
C1. Dug/Bored well (up to 6 feet diameter)		per foot	$15.00	$0.00
9. **Well Installation (per foot)***				
A1. Water Table (hand augered)		per foot	$10.60	$0.00
B1. Water Table (drill rig)		per foot	$38.00	$0.00
CC. Telescoping		per foot	$50.00	$0.00
DD. Rock Drilling		per foot	$58.00	$0.00
E1. 2" Rock Coring		per foot	$30.90	$0.00
G1. Rock Multi-sampling ports/screens		per foot	$33.40	$0.00
HH. Recovery Well (4" diameter)		per foot	$45.00	$0.00
II. Pushed Pre-packed screen (1.25" dia)		per foot	$15.00	$0.00
J1. Rotosonic (2" diameter)		per foot	$44.00	$0.00
K. Re-develop Existing Well		per foot	$11.00	$0.00
10. **Groundwater Sample Collection / Gauge Depth to Water or Product ***				
A1. Groundwater Purge	47	per well/receptor	$60.00	$2,820.00
B1. Air or Vapors		per receptor	$12.00	$0.00
C1. Water Supply		per well/receptor	$22.00	$0.00
D1. Groundwater (No Purge or Duplicate	3	per well/receptor	$28.00	$84.00
E1. Gauge Well only		per well	$7.00	$0.00
F1. Sample Below Product		per well	$12.00	$0.00

G1. Passive Diffusion Bag		each	$26.00		$0.00
H1. Field Blank	3	each	$24.60		$73.80

11. Laboratory Analyses-Groundwater				
A2. BTEXNM+Oxyg's+1,2 DCA+Eth(82	56	per sample	$122.00	$6,832.00
AA1. Lead, Filtered		per sample	$13.80	$0.00
B2. Rush EPA Method 8260B (All of item A.)		per sample	$153.60	$0.00
C2. Trimethal, Butyl, and Isopropyl Benzenes		per sample	$36.40	$0.00
D1. PAH's		per sample	$60.60	$0.00
E1. Lead		per sample	$16.00	$0.00
F1. EDB by EPA 8011	53	per sample	$45.20	$2,395.60
FF1. EDB by EPA Method 8011 Rush		per sample	$68.20	$0.00
G1. 8 RCRA Metals		per sample	$63.40	$0.00
H1. TPH (9070)		per sample	$41.00	$0.00
II. pH		per sample	$5.20	$0.00
J1. BOD		per sample	$20.00	$0.00
PP. Ethanol		per sample	$14.80	$0.00
11. **Analyses-Soil**				
Q1. BTEX + Naphth.		per sample	$64.00	$0.00
R1. PAH's		per sample	$64.04	$0.00
S1. 8 RCRA Metals		per sample	$56.40	$0.00
U1. TPH-DRO (3550C/8015C)		per sample	$40.00	$0.00
V1. TPH- GRO (5030B/8015C)		per sample	$35.96	$0.00
W1. Grain size/hydrometer		per sample	$104.00	$0.00
X1. Total Organic Carbon		per sample	$30.60	$0.00
11. **Analyses-Air**				
Y1. BTEX + Naphthalene		per sample	$216.00	$0.00
11. **Analyses-Free Phase Product**				
Z1. Hydrocarbon Fuel Identification		per sample	$357.00	$0.00
12. **Aquifer Characterization**				
A1. Pumping Test*		per hour	$23.00	$0.00
B1. Slug Test*		per test	$191.00	$0.00
C1. Fractured Rock		per test	$100.00	$0.00
13. A1. **Free Product Recovery Rate Test***		each	$38.00	$0.00
14. **Fate/Transport Modeling**				
A1. Mathematical Model		each	$100.00	$0.00
B1. Computer Model		each	$100.00	$0.00
15. **Risk Evaluation**				
A. Tier I Risk Evaluation		each	$300.00	$0.00
B1. Tier II Risk Evaluation		each	$100.00	$0.00
16. A1. **Subsequent Survey***		each	$260.00	$0.00
17. **Disposal (gallons or tons)***				
AA. Wastewater	400	gallon	$0.56	$224.00
BB. Free Product		gallon	$0.50	$0.00
C1. Soil Treatment/Disposal		ton	$60.00	$0.00
D1. Drilling fluids		gallon	$0.42	$0.00
18. **Miscellaneous (attach receipts)**				
		each	$0.00	$0.00
		each	$0.00	$0.00
		each	$0.00	$0.00
20. **Tier I Assessment (Use DHEC 3665 form)**		standard		$0.00
21. **IGWA (Use DHEC 3666 form)**		standard		$0.00
22. **Corrective Action (Use DHEC 3667 form)**		PFP Bid		$0.00

23. **Aggressive Fluid & Vapor Recovery (AFVR)**					
A1. 8-hour Event*		each	$1,375.00		$0.00
AA. 24-hour Event*		each	$3,825.00		$0.00
A3. 48-hour Event*		each	$6,265.00		$0.00
A4. 96-hour Event*		each	$12,567.50		$0.00
C1. Off-gas Treatment 8 hour		per event	$122.50		$0.00
C2. Off-gas Treatment 24 hour		per event	$241.50		$0.00
C3. Off-gas Treatment 48 hour		per event	$327.00		$0.00
C4. Off-gas Treatment 96 hour		per event	$780.00		$0.00
D. Site Reconnaissance		each	$203.25		$0.00
E1. Additional Hook-ups		each	$25.75		$0.00
F1. Effluent Disposal		gallon	$0.44		$0.00
G. AFVR Mobilization/Demobilization		each	$391.50		$0.00
24. **Granulated Activated Carbon (GAC) filter system installation & service:**					
A1. New GAC System Installation*		each	$1,900.00		$0.00
BB. Refurbished GAC Sys. Install*		each	$900.00		$0.00
C1. Filter replacement/removal*		each	$350.00		$0.00
DD. GAC System removal, cleaning, & refurbishment*		each	$275.00		$0.00
E1. GAC System housing*		each	$250.00		$0.00
F. In-line particulate filter		each	$150.00		$0.00
G1. Additional piping & fittings		foot	$1.50		$0.00
25. **Well Repair**					
A1. Additional Copies of the Report Delivered		each	$50.00		$0.00
B1. Repair 2x2 MW pad*		each	$50.00		$0.00
C1. Repair 4x4 MW pad*		each	$88.00		$0.00
D1. Repair well vault*		each	$118.00		$0.00
F1. Replace well cover bolts		each	$2.60		$0.00
G. Replace locking well cap & lock		each	$15.00		$0.00
H1. Replace/Repair stick-up*		each	$134.00		$0.00
II. Convert Flush-mount to Stick-up*		each	$150.00		$0.00
J1. Convert Stick-up to Flush-mount*		each	$130.00		$0.00
K1. Replace missing/illegible well ID plate		each	$12.00		$0.00
Report Prep & Project Coordination	12%	percent	$13,002.40		$1,560.29
TOTAL					$14,562.69

*The appropriate mobilization cost can be added to complete these tasks, as necessary. DHEC 0728 (11/2013)



↑N

Figure 1: Site Location Map
Pantry #585 (81 Food Mart)
1502 East Greenville Street
Anderson, Anderson County, South Carolina
UST Permit #12458

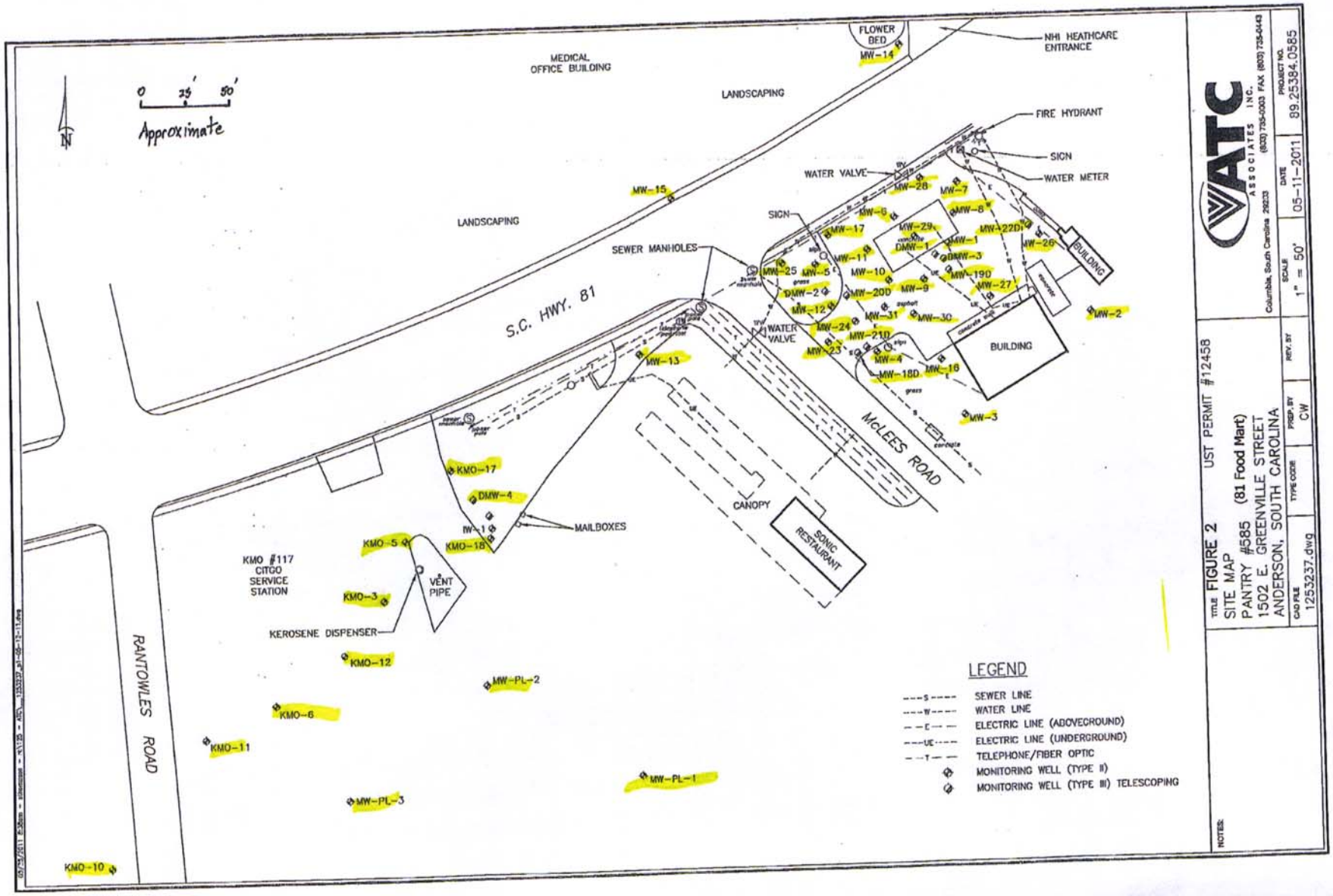
Cardno ATC
Shaping the Future

400 Northeast Drive, Unit Q Phone (803) 735-0003
Columbia, South Carolina Fax (803) 735-0443

ATC PROJECT No: 14.25384.0585

SOURCE: USGS Topographic Map Anderson, SC Quadrangle

1"= 885'


0 25' 50'
Approximate
N
MEDICAL OFFICE BUILDING
LANDSCAPING
FLOWER BED
MW-14
NHI HEATHCARE ENTRANCE
FIRE HYDRANT
SIGN
WATER METER
WATER VALVE
MW-28
MW-7
MW-8
MW-6
MW-17
MW-29
MW-22D
MW-26
MW-1
DMW-1
DMW-3
MW-19D
MW-27
MW-11
MW-10
MW-20D
MW-9
MW-12
MW-31
MW-30
MW-24
MW-21D
MW-23
MW-4
MW-18D
MW-16
MW-2
MW-3
BUILDING
MW-15
LANDSCAPING
SEWER MANHOLES
S.C. HWY. 81
MW-25
MW-5
DMW-2
MW-13
WATER VALVE
McLEES ROAD
CANOPY
SONIC RESTAURANT
KMO-17
DMW-4
MAILBOXES
KMO-5
KMO-18
KMO #117 CITGO SERVICE STATION
VENT PIPE
KMO-3
KEROSENE DISPENSER
KMO-12
MW-PL-2
KMO-6
KMO-11
MW-PL-1
MW-PL-3
RANTOWLES ROAD
KMO-10
LEGEND
SEWER LINE
WATER LINE
ELECTRIC LINE (ABOVEGROUND)
ELECTRIC LINE (UNDERGROUND)
TELEPHONE/FIBER OPTIC
MONITORING WELL (TYPE II)
MONITORING WELL (TYPE III) TELESCOPING
VATC ASSOCIATES INC.
Columbia, South Carolina 29223
(803) 735-0003 FAX (803) 735-0443
PROJECT NO. 89.25384.0585
DATE 05-11-2011
SCALE 1" = 50'
REV. BY
PREP. BY CW
TYPE CODE
CAD FILE 1253237.dwg
TITLE FIGURE 2
SITE MAP
PANTRY #585 (81 Food Mart)
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA
UST PERMIT #12458
NOTES:

D H E C
PROMOTE PROTECT PROSPER
W. Marshall Taylor Jr., Acting Director
Promoting and protecting the health of the public and the environment

UST DOCKETING 51 ck

BRENT PUZAK
PANTRY INC
PO BOX 8019
CARY NC 27512

APR 2 9 2015

Re: **Sample Directive**
Former 81 Food Mart, 1502 E Greenville Hwy., Greenville, SC
UST Permit #12458; CA #50082
Release reported November 10, 1992
Site-Specific Work Plan received April 15, 2015
Anderson County

Dear Mr. Puzak:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the referenced plan submitted on your behalf by Cardno ATC. Sampling of the monitoring wells is necessary. All work should be conducted in accordance with the UST Quality Assurance Program Plan (QAPP) and must be conducted in compliance with all applicable regulations. A copy of Agency QAPP Revision 2.0 for the UST Management Division is available at http://www.scdhec.gov/environment/docs/QAPP_Rev-2_April2013.pdf.

Activities at the site should begin immediately upon receipt of this letter. Cost agreement # 50082 has been approved for the amount shown on the enclosed cost agreement form for the sampling of the monitoring wells and analysis for BTEX, naphthalene, MTBE, 1,2-DCA, oxygenates, and EDB. Analyses should be in accordance with Appendix E of the QAPP to include duplicate samples, field and trip blanks.

As soon as the beginning date of the event has been scheduled, please contact Read Miner at minerrs@dhec.sc.gov.

The Monitoring 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 the QAPP. 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.

Cardno ATC can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. Please note that applicable South Carolina certification requirements regarding the services and report preparation must be satisfied. 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.

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 is obtained from the Agency. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the Agency for the cost to be paid. The Agency 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 Agency 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.

Please note, if unnecessary dilutions are completed resulting in reporting limits of individual CoC in excess of Risk-Based Screening Levels (RBSLs), the data cannot be used. In those cases, the Agency may deny payment for any non-detect analysis where the reporting limit exceeds the RBSL. The UST Management Division encourages the use of 'J' values as necessary so the appropriate action can be determined for a release.

The Agency 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 the CoC concentrations based on laboratory analysis are below RBSLs, 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 regarding this site, please reference UST Permit #12458. If you have any questions regarding this correspondence, please contact me by telephone at (803) 898-0608 or by e-mail at minerrs@dhec.sc.gov.

Sincerely,

Read S Miner

Read S. Miner, P.G., Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Cardno ATC, 400 Northeast Dr., Unit Q, Columbia, SC 29203-5182 (with enclosure)
Technical File (with enclosure)

Approved Cost Agreement 50082

Facility: 12458 81 FOOD MART
MINERRS
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
01 PLAN						
		A1	SITE SPECIFIC WORK PLAN	1.0000	150.00	150.00
04 MOB/DEMOB						
		B1	PERSONNEL	3.0000	423.00	1,269.00
10 SAMPLE COLLECTION						
		A1	GROUNDWATER (PURGE)	47.0000	60.00	2,820.00
		D1	GROUNDWATER NO PURGE/DUPLICATE	3.0000	28.00	84.00
		H1	FIELD BLANK	3.0000	24.60	73.80
11 ANALYSES						
	GW GROUNDWATER	A2	BTEXNM+OXYGS+1,2-DCA+ETH-8260B	56.0000	122.00	6,832.00
		F1	EDB BY 8011	56.0000	45.20	2,531.20
17 DISPOSAL						
		AA	WASTEWATER	400.0000	0.56	224.00
19 RPT/PROJECT MNGT & COORDINATIO						
		PRT	REPORT PREPARATION	0.1200	13,984.00	1,678.08
				Total Amount		15,662.08

D H E C

PROMOTE PROTECT PROSPER

Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

BRENT PUZAK
PANTRY INC
PO BOX 8019
CARY NC 27512

JUL 17 2015

UST 52ker DOCKETING

Re: **Notice of Alleged Violation**
Former 81 Food Mart, 1502 E Greenville Hwy., Anderson, SC
UST Permit #12458; CA #50082
Release reported November 10, 1992
Site-Specific Work Plan approved April 29, 2015
Anderson County

Dear Mr. Puzak:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) directed you to proceed with sampling activities per correspondence dated April 29, 2015. Prior notification of the date of sampling activities is also required. Based on the implementation schedule included in Cardno ATC's Site-Specific Work Plan, the report was to be submitted within 60 calendar days of approval (June 29, 2015). To date, neither notification of the proposed sampling dates nor a final report has been submitted.

In accordance with Section 280.65 of the South Carolina Underground Storage Tank Regulations, the required work must be conducted. Please have your contractor provide the notification of the proposed sampling date promptly such that the final report can be submitted within 30 days from the date of this letter. Should you not submit the report within 30 days from the date of this letter, enforcement actions will be initiated.

On all correspondence regarding this site, please reference UST Permit #12458. If you have any questions concerning this correspondence, please call Read Miner at (803) 898-0608.

Sincerely,

Read S. Miner

Read S. Miner, P.G.,Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Technical File
Cardno ATC, 7499 Parklane Rd., Ste. 112, Columbia, SC 29223

Cardno
Shaping the Future

UST
JUL 2 3 2015
PROGRAM

Cardno
7499 Parklane Road
Suite 112
Columbia, SC 29223

Phone **+1 803 735 0003**
Fax +1 803 929 6065
www.cardno.com

UST
53 Reg
DOCKETING

July 22, 2015

Mr. Read S. Miner, P.G., Hydrogeologist
South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management
UST Management Division Corrective Action Section
2600 Bull Street
Columbia, South Carolina 29201

RE: Groundwater Monitoring Report
Former Pantry #585 / 81 Food Mart
1502 East Greenville Highway, Anderson, South Carolina
Anderson County
UST Permit ID #12458; CA #50082
Cardno Project #: DHEC058501

Dear Mr. Miner:

Cardno, on behalf of The Pantry Inc., is submitting the enclosed Groundwater Monitoring Report for the **Former Pantry #585 / 81 Food Mart**. This report is in accordance with the South Carolina Department of Health and Environmental Control (SCDHEC) directive letter dated April 29, 2015, and documents investigative procedures, field activities, and laboratory analytical results for the May 28, and 29, 2015 groundwater sampling event. If you have any questions or require additional information, please contact the Cardno project manager for the site, Jesse Keeffe, at (803) 735-0003.

Sincerely,
Cardno

Chris Hamilton
Staff Scientist
for Cardno
Direct Line +1 803 223 8800
Email: christopher.hamilton@cardno.com

Jesse L. Keeffe, Jr., P.G. #2308
Project Manager
for Cardno
Direct Line +1 866 735 0003 ext. 2010
Email: jesse.keeffe@cardno.com

cc: Mr. Brent Puzak, Director of Environmental Compliance, The Pantry, Inc.

UST Site # 12458
July 22, 2015

Cardno
Shaping the Future

Groundwater Monitoring Report
Former Pantry #585 / 81 Food Mart
1502 East Greenville Highway, Anderson, South Carolina
Anderson County
UST Permit ID #12458; CA #50082
Cardno Project #: DHEC058501

Prepared By:

Chris Hamilton
Staff Scientist

Jesse Lee Keeffe, Jr., P.G. #2308
Project Manager

JESSE L. KEEFFE JR. REGISTERED No. 2308 PROFESSIONAL GEOLOGIST SOUTH CAROLINA

Submitted To:

State of South Carolina
Department of Health and Environmental Control
Bureau of Land and Waste Management
UST Management Division
Corrective Action Section
2600 Bull Street
Columbia, South Carolina 29201

On Behalf Of:

The Pantry, Inc.
Attn: Brent Puzak
P.O. Box 1410
Cary, North Carolina
Phone: (919) 774-6700

Submitted By:

Cardno
7499 Parklane Road, Suite 112
Columbia, South Carolina 29223
Phone: (803) 735-0003
Fax: (803) 929-6065

Underground Storage Tank Site Rehabilitation Contractor Certification No. 313

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Appendix A	Field Data Information Sheets
Appendix B	Laboratory Analytical Results
Appendix C	Disposal Certificate
Appendix D	SCDHEC QAPP Appendix K (Contractor Verification Checklist)
Appendix E	SCDHEC QAPP Appendix M (Project Status Update)

1.0 INTRODUCTION

Cardno (formerly Cardno ATC) was retained by The Pantry, Inc. to perform environmental consulting services at the Former Pantry #585 / 81 Food Mart (site). Cardno has completed sampling activities at the site located at 1502 East Greenville Highway, Anderson, Anderson County, South Carolina (UST Permit #12458). A site topographic map is presented as ***Figure 1*** and a site map depicting pertinent features is presented as ***Figure 2***. The activities were authorized by the South Carolina Department of Health and Environmental Control's (SCDHEC) issuance of a sampling directive for the site dated April 29, 2015. The scope of services included a groundwater sampling event, laboratory testing, and report preparation. The results of the groundwater sampling event, along with recommendations, are included herein.

2.0 SITE DESCRIPTION

2.1 Site Characterization

The site is currently operating as a medical laboratory with underground storage tanks (USTs) having been removed. The site is owned by Dbouk Wajda and Joumana of 1502 East Greenville Highway, Anderson, South Carolina (Parcel number 1480902006). The site is located at the intersection of S.C. Highway 81 and McLees Road in Anderson, Anderson County, South Carolina. The surrounding area includes developed commercial properties and a residential property to the east of the site.

2.2 Site Background

Three gasoline USTs at the site were reported removed in 1991. The release was reported on November 10, 1992. The site ranking is currently 1C (free product or vapors in structures/utilities). Following confirmation of the release, soil and groundwater assessments were conducted. Additionally, free product abatement activities have been ongoing. Most recently, SCDHEC issued a directive for the preparation of a Quality Assurance Program Plan (QAPP) contractor addendum (QAPPA) for a comprehensive sampling event. On April 15, 2015, Cardno submitted the SSWP for a groundwater sampling event. On April 29, 2015, SCDHEC issued a Groundwater Sampling Directive requesting the completion of a groundwater sampling event at the site. Per SCDHEC's request, this report documents a groundwater sampling event conducted on May 28 and 29, 2015.

3.0 GROUNDWATER CHARACTERIZATION

3.1 Groundwater Levels

On May 28, 2015, groundwater levels were gauged with a decontaminated electronic water indicator in monitoring wells 12458 MW-PL-1, 12458 MW-PL-2, 12458 MW-PL-3, 12458 MW-1, 12458 MW-4, 12458 MW-5, 12458 MW-6, 12458 MW-7, 12458 MW-8, 12458 MW-9, 12458 MW-11, 12458 MW-12, 12458 MW-13, 12458 MW-14, 12458 MW-15, 12458 MW-16, 12458 MW-17, 12458 MW-18D, 12458 MW-19D, 12458 MW-20D,12458 MW-21D, 12458 MW-22D, 12458 MW-23, 12458 MW-24, 12458 MW-25, 12458 MW-26, 12458 MW-27, 12458 MW-28, 12458 MW-30, 12458 DMW-1, 12458 DMW-2, 12458 DMW-3, 12458 KMO-3, 12458 KMO-5, 12458 KMO-6, 12458 KMO-10, 12458 KMO-11, 12458 KMO-12, 12458 KMO-17, and 12458 KMO-18. An oil/water interface probe was used to measure the depths to water and free-phase product, which was present at the time of the gauging event in monitoring wells 12458 MW-1, 12458 MW-5, 12458 MW-6, 12458 MW-8, 12458 MW-9, 12458 MW-11, and 12458 MW-30 (with an approximate thickness of 0.60 , 0.42, 0.25, 0.27, 0.06, 0.13, and 2.50 feet, respectively). Monitoring wells 12458 MW-2 and 12458 MW-3 have been destroyed by construction of an addition to the medical lab located on the site. Monitoring wells 12458 MW-10 and 12458 MW-31 could not be located due to the steel rebar in the concrete and are assumed destroyed. Monitoring well 12458 DMW-4 also could not be located and appeared to have been destroyed. Depths were measured from the top of the well casings. Groundwater depths were subtracted from elevations set at the top of each well's casing, referenced to an arbitrary datum of 100.00 feet, to establish groundwater elevations. The locations of the monitoring wells are shown in ***Figure 2.*** Monitoring well construction details and current groundwater elevation data are included in ***Table 1.***

A groundwater elevation contour map based on the May 28, 2015 data is presented as ***Figure 3.*** Depths to water across the site ranged from 5.27 feet (12458 KMO-12) to 16.08 feet (12548 DMW-2) below grade. Groundwater flow direction was interpreted to be generally in a northeast to southwestern direction across the site. The horizontal hydraulic gradient as measured between monitoring wells 12458 MW-8 and 12458 MW-12 was estimated to be 0.048 feet per foot. The vertical gradient as measured between adjacent shallow and deep wells 12458 MW-1 and 12458 DMW-1 was 1.03 feet upwards.

3.2 Groundwater Quality

On May 28 and 29, 2015, groundwater samples were collected from monitoring wells 12458 MW-PL-1, 12458 MW-PL-2, 12458 MW-PL-3, 12458 MW-4, 12458 MW-7, 12458 MW-12, 12458 MW-13, 12458 MW-14, 12458 MW-15, 12458 MW-16, 12458 MW-17, 12458 MW-18D, 12458 MW-19D, 12458 MW-20D, 12458 MW-21D, 12458 MW-22D, 12458 MW-23, 12458 MW-24,12458 MW-25, 12458 MW-26, 12458 MW-27, 12458 MW-28, 12458 DMW-1, 12458 DMW-2, 12458 DMW-3, 12458 KMO-3, 12458 KMO-5, 12458 KMO-6, 12458 KMO-10, 12458 KMO-11, 12458 KMO-12, 12458 KMO-17, and 12458 KMO-18. Wells with measurable free product were not sampled.

Disposable polyethylene bailers were used for the purging and collection of the water samples from monitoring wells. The groundwater monitoring wells were purged of three casing volumes, bailed for dryness, or purged until field parameters varied less than 10% prior to sample collection. During purging and prior to sample collection, Cardno collected pH, specific conductivity, water temperature, and dissolved oxygen measurements. These measurements for each well are recorded in the field data information sheets included in ***Appendix A***. Disposable nitrile gloves were used to maintain sample integrity during the sampling process.

The groundwater and quality assurance samples were transported under chain of custody to Xenco Laboratories [6017 Financial Drive, Norcross, GA, South Carolina Laboratory Certification Number 98015, (770)-449-8800]. The groundwater samples were analyzed for the volatile organic compounds benzene, toluene, ethylbenzene, total xylenes (BTEX), methyl tert-butyl ether (MTBE), naphthalene, 1,2-dichloroethane (1,2-DCA) and the 8 oxygenates by EPA Method 8260B; and analyzed for 1,2-dibromoethane (EDB) by EPA method 8011. Copies of the laboratory analytical results for groundwater quality and chain-of-custody documentation are included in ***Appendix B***.

Groundwater analytical results for the May 28 and 29, 2015 sampling event are summarized in ***Table 2***. The groundwater samples with CoCs that exceeded the SCDHEC RBSLs are summarized as follows:

> Benzene 12458 MW-12, 12458 MW-13, 12458 MW-17, 12458 MW-18D, 12458 MW-23, 12458 MW-24, 12458 MW-25, 12458 MW-27, 12458 DMW-1, 12458 KMO-3, 12548 KMO-6, and 12458 KMO-17.

> Toluene 12458 MW-12, and 12458 MW-17.

> Ethylbenzene 12458 MW-12, and 12458 MW-17.

> Xylenes 12458 MW-17

> Naphthalene 12458 MW-12, 12458 MW-13, 12458 MW-17, 12458 MW-25, 12458 MW-27, and 12458 KMO-17.

> MTBE 12458 MW-12, 12458 MW-23, 12458 MW-24, 12458 MW-27,12458 KMO-3, and 12458 KMO-6.

> EDB 12458 MW-12, and 12458 MW-17.

> Di isopropyl ether 12458 MW-12, 12458 MW-17, 12458 MW-24, and 12458 KMO-3.

> tert-Butyl Alcohol 12458 MW-24.

> tert-Amyl Alcohol 12458 MW-13, 12458 MW-17, 12458 MW-23, 12458, MW-24, 12458 MW-25, and 12458 MW-27.

Chemicals of concern (CoC) in groundwater mapa are included as ***Figure 4A, Figure 4B,*** and ***Figure 4C***. Historical groundwater analytical results are summarized in ***Table 3***. All purge water was filtered through a granular activated carbon treatment unit prior to disposal. A waste disposal certificate for the purge water is included in ***Appendix C***.

4.0 DATA VALIDATION AND USABILITY

4.1 Data Validation

To ensure adherence to the methodologies described in the QAPPA, a contractor data verification checklist (SCDHEC Programmatic QAPP Appendix K) was completed and is included in ***Appendix D.***

4.2 Quality Assurance Analysis

The project sample design, field procedures, and laboratory data were reviewed for quality assurance and data usability using the six data quality indicators (DQIs) described in Section A7 of the SCDHEC Programmatic QAPP requirements. The results of the quality assurance analysis are described below.

4.3 Precision

The precision of the laboratory data was evaluated by comparing the relative percent difference (RPD) between using a sample and a field duplicate sample. The sample locations were selected based on previous analytical results. Field duplicate sample DUP-1 was collected from monitoring well 12458 MW-25 on May 29, 2015 and field duplicate sample DUP-2 was collected from monitoring well 12458 MW-23 on May 29, 2015. All duplicates were submitted for analysis of the same method 8260B and 8011 constituents as the original samples. The RPD was calculated using the formula:

$$PD\ (\%) = Absolute\ value\ of \left(\frac{(C_S - C_D)}{((C_S - C_D)/2)}\right) x\ 100$$

Where: C_S = Concentration of the sample

C_D = Concentration of the duplicate sample

The RPDs were compared to the limits established in Appendix E of the SCDHEC Programmatic QAPP. The results of the Precision Analysis are included in ***Table 4***. Review of the results between the original sample and its duplicate indicate substantial variances from the 20% RPD criterion, especially ethylbenzene between 12458 MW-25 and DUP-1 (113% RPD), and for several

constituents between sample 12458 MW-23 and DUP-2 (59% for benzene, 86% for toluene, 49% for total xylenes, 94% for naphthalene, 79% for 3,3-dimethyl 1-butanol, 78% for di-isopropyl ether, 57% for tert-butyl alcohol, 98% for tert-amyl alcohol, and 103% for tert-amyl methyl ether). Following an internal audit to confirm that the correct wells are compared and the exact same sampling, preservation and labeling procedures were followed, the results were presented to the analytical laboratory for investigation. Results are pending. One possible partially mitigating factor is that benzene and tert-amyle alcohol were quantified in DUP-2 following a 10 times sample dilution, while the remaining analytes required no dilution.

Please see ***Appendix E*** for the Project Status Update Form regarding the exceeded the RPD limit for the respective chemicals of concern.

4.4 Bias

Bias analysis of the data can indicate accuracy of the laboratory measurement system. Field blanks were collected during each sampling day using the same procedures as well sampling to determine the presence of ambient airborne contamination or improper decontamination of sampling equipment. A trip blank accompanies the sample cooler to assess the potential for in-transit contamination. The results of the bias analysis of the field and trip blanks are included in ***Table 4***. Field blank 1, collected on 5/28/2015, was found to contain detectable concentrations of two constituents: naphthalene (4.85 µg/L) and tert-butyl alcohol (15.5 µg/L). Field blank 2 (5/29/2015) and the trip blank contained no COCs above method detection limits.

4.5 Representativeness

The site monitoring well network was designed to allow representative samples to be collected from the site and the surrounding area. Field personnel have been instructed to log data, label containers, and enter samples on the chains-of-custody immediately upon collection to reduce potential for sample location or other representativeness errors. Proper preservation techniques, including preservative use and immediate icing of samples are also employed. The laboratory reported that samples were received within the proper temperature range inn accordance with the QAPPA. Samples were collected and analyzed in accordance with the QAPPA. The data collected and presented in this report meet the QAPP criteria for representativeness.

4.6 Completeness

The dataset meets the completeness criteria based on the purpose of the sampling event because each available monitoring well that did not contain free product and which could be located was sampled. The purpose of the sampling event was to monitoring the petroleum impact to groundwater.

4.7 Comparability

The results of laboratory analysis of groundwater at the site between November 2000 and May 29, 2015 are included in this report. The samples were collected using the same field protocols, analyzed using the same EPA Methods, and the data is reported in micrograms per Liter (µg/L) to allow for easy comparison. In general, trends of impact conditions show that effects of natural migration and attenuation of impact are consistent with a petroleum release in the South Carolina geographic setting. Concentrations between individual monitoring events show modest changes reflective of natural attenuation or reasonable data fluctuations from sorption and desorption effects during water level changes or from other natural variations. The comparability criteria have generally been met.

4.8 Method Sensitivity

Laboratory method detection limits and reporting limits were reviewed and compared to the limits established in Appendix E of the SCDHEC Programmatic QAPP. The results of the Method Sensitivity analysis are included in ***Table 4***. The analytical dataset met the QAPP sensitivity limits. The analytical dataset met the QAPP sensitivity limits .

5.0 SUMMARY

During this reporting period Cardno conducted monitoring well gauging and sampling at the site. Based on field activities and laboratory results Cardno concludes the following:

- Groundwater flow direction was in a south to southwestern direction across the site with an estimated hydraulic gradient of 0.048, in accordance with the site's topography.
- Free product was detected during the May 28 and 29, 2015 sampling event in monitoring wells 12458 MW-1 (0.60 ft.), 12458 MW-5 (0.42 ft.), 12458 MW-6 (0.25 ft.), 12458 MW-8 (0.27 ft.), 12458 MW-9 (0.06 ft.), 12458 MW-11 (0.13 ft.), and 12458 MW-30 (2.50 ft.).
- Dissolved-phase impact (defined by CoCs at levels above applicable RBSLs) extends from the area of free-product accumulation to the southwest along a narrow linear trend. This is in accotrdance with the site topography andf groundwater flow direction.
- Quality assurance issues were identified related to the presence of two CoCs above detection in one of two field blank samples, and the presence of substantial variances among several CoCs between well samples and their associated duplicates. These issues are being addressed by the laboratory.

Free product remained present in monitoring wells 12458 MW-1, 12458 MW-5, 12458 MW-6, 12458 MW-8, 12458 MW-9, 12458 MW-11, and 12458 MW-30. These provide a continuing source of dissolved groundwater contamination and potential vapor intrusion. Cardno recommends performance of at least two extended (96-hour) AFVR events on all wells currently containing measurable product. Installation of recovery wells is also recommended to assist in effective product recovery. One well should be situated near existing well 12458 MW-1, as this well is screened too deep to allow for efficient product removal. The second should be placed between current well 12458 MW-30 and destroyed well 12458 MW-31 since this is the area with the greatest measured product accumulation. The wells should be constructed of 4-inch diameter schedule 40 PVC with a 20-slot sized screen and medium to fine sand filter set from about 7 to 17 feet below grade.

TABLES

Table 1
Groundwater Elevation Data
Pantry #585 (81 Food Mart)
1502 East Greenville Street
Anderson, Anderson County, South Carolina
UST Permit #12458

Well Identification	Date Measured	Top of Casing Elevation, ft	Total Well Depth, ft	Screened Interval, ft	Depth to Product, ft[1]	Product Thickness, ft	Depth to Water, ft[2]	Groundwater Elevation, ft
12458 MW-PL-1	5/28/2015	86.55	13	3-13	NP	NP	7.16	79.39
	05/12/2014				NP	NP	6.15	80.40
	04/28/2011				NP	NP	8.22	78.33
12458 MW-PL-2	05/28/2015	84.05	13	3-13	NP	NP	6.01	78.04
	05/12/2014				NP	NP	5.45	78.60
	04/28/2011				NP	NP	5.94	78.11
12458 MW-PL-3	05/28/2015	82.56	13	3-13	NP	NP	5.49	77.07
	05/12/2014				NP	NP	5.00	77.56
	04/28/2011				NP	NP	5.46	77.10
12458 MW-1	05/28/2015	94.87	25	15-25	10.78	0.6	11.38	83.02
	05/13/2014				9.89	0.46	10.35	84.52
	06/15/2011				11.11	0.62	11.73	83.14
	11/15/2007				13.47	0.26	13.73	81.14
12458 MW-2	05/28/2015	94.78	20	10-20	Well Destroyed			
	05/13/2014				NP	NP	8.55	86.23
	06/15/2011				NP	NP	10.72	84.06
	11/15/2007				NP	NP	12.91	81.87
12458 MW-3	05/28/2015	91.60	15	5-15	Well Destroyed			
	05/13/2014				NP	NP	6.15	85.45
	06/15/2011				NP	NP	8.04	83.56
	11/15/2007				NP	NP	10.28	81.32
12458 MW-4	05/28/2015	91.77	15	5-15	NP	NP	8.34	83.43
	05/13/2014				NP	NP	7.25	84.52
	06/15/2011				NP	NP	9.04	82.73
	11/15/2007				NP	NP	11.06	80.71
12458 MW-5	05/28/2015	94.34	15	5-15	10.76	0.42	11.18	82.83
	05/13/2014				9.57	1.53	11.10	83.24
	06/15/2011				11.31	0.23	11.54	82.80
	11/15/2007				NP	NP	14.23	80.11
12458 MW-6	05/28/2015	95.34	18	8-18	11.49	0.25	11.74	83.41
	05/12/2014				10.45	0.65	11.10	84.24
	06/15/2011				12.01	0.26	12.27	83.07
	11/15/2007				NP	NP	14.23	81.11
12458 MW-7	05/28/2015	95.80	15	5-15	NP	NP	8.68	87.12
	05/12/2014				8.05	0.25	8.30	87.50
	06/15/2011				9.58	0.23	9.81	85.99
	11/15/2007				NP	NP	11.37	84.43
12458 MW-8	05/28/2015	95.80	15	5-15	9.01	0.27	9.28	86.31
	05/12/2014				NP	NP	7.68	88.12
	06/15/2011				NP	NP	9.41	86.39
	11/15/2007				11.55	0.31	11.86	83.94
12458 MW-9	05/28/2015	94.36	17	7-17	10.36	0.06	10.42	83.89
	05/12/2014				9.04	0.49	9.53	84.83
	06/15/2011				NP	NP	12.14	82.22
	11/15/2007				NP	NP	13.29	81.07
12458 MW-10	05/28/2015	94.29	17	7-17	Well Destroyed			
	05/12/2014				N/A	N/A	N/A	N/A
	06/15/2011				11.1	0.12	11.22	83.07
	11/15/2007				11.55	1.76	13.31	80.98
12458 MW-11	05/28/2015	94.71	17	7-17	10.49	0.13	10.62	83.99
	05/12/2014				10.06	0.23	10.28	84.43
	06/15/2011				N/A	N/A	N/A	N/A
	11/15/2007				13.36	0.3	13.66	81.03
12458 MW-12	05/28/2015	92.18	17	7-17	NP	NP	9.49	82.69
	05/13/2014				NP	NP	8.55	83.63
	06/15/2011				NP	NP	10.29	81.89
	11/15/2007				NP	NP	12.26	79.92
12458 MW-13	05/28/2015	90.12	13	3-13	NP	NP	8.12	82.00
	05/12/2014				NP	NP	7.15	82.97
	06/15/2011				NP	NP	8.62	81.50
	11/15/2007				NP	NP	10.57	79.55
12458 MW-14	05/28/2015	Unk	25	15-25	NP	NP	13.19	Unk
	05/12/2014				NP	NP	12.25	
12458 MW-15	05/28/2015	Unk	25	15-25	NP	NP	10.87	Unk
	05/12/2014				NP	NP	9.75	
12458 MW-16	05/28/2015	Unk	20	10-20	NP	NP	9.26	Unk
	05/13/2014				NP	NP	7.55	
12458 MW-17	05/28/2015	Unk	20	10-20	NP	NP	11.28	Unk
	05/12/2014				NP	NP	10.30	
12458 MW-18D	05/28/2015	Unk	80	75-80	NP	NP	8.59	Unk
	05/13/2014				NP	NP	7.58	
12458 MW-19D	05/28/2015	Unk	48	43-48	NP	NP	11.29	Unk
	05/13/2014				NP	NP	10.41	
12458 MW-20D	05/28/2015	Unk	47	42-47	NP	NP	9.97	Unk
	05/13/2014				NP	NP	9.75	

(1): Depth to water measured from top of casing
(2): Depth to water corrected for presence of product using density corrective factor of 0.73 g/cc
(3): NP: free product not present
(4): Unk = Unknown

Table 1
Groundwater Elevation Data
Pantry #585 (81 Food Mart)
1502 East Greenville Street
Anderson, Anderson County, South Carolina
UST Permit #12458

Well Identification	Date Measured	Top of Casing Elevation, ft	Total Well Depth, ft	Screened Interval, ft	Depth to Product, ft(1)	Product Thickness, ft	Depth to Water, ft(2)	Groundwater Elevation, ft
12458 MW-21D	05/28/15	Unk	47	42-47	NP	NP	7.14	Unk
	05/12/2014				NP	NP	8.15	
12458 MW-22D	05/28/2015	Unk	47	42-47	NP	NP	11.18	Unk
	05/31/2014				NP	NP	6.73	
12458 MW-23	05/28/2015	90.79	18	8-18	NP	NP	7.38	83.41
	05/31/2014				NP	NP	6.71	84.08
	06/15/2011				NP	NP	8.40	82.39
12458 MW-24	05/28/2015	91.49	20	10-20	NP	NP	8.13	83.36
	05/31/2014				NP	NP	7.27	84.22
	06/15/2011				8.76	0.15	8.91	82.58
12458 MW-25	05/28/2015	Unk	20	10-20	NP	NP	11.14	Unk
	05/13/2014				NP	NP	10.00	
12458 MW-26	05/28/2015	Unk	20	10-20	NP	NP	7.39	Unk
	05/13/2014				NP	NP	6.69	
12458 MW-27	05/28/2015	Unk	21	11-21	NP	NP	9.53	Unk
	05/13/2014				NP	NP	8.25	
12458 MW-28	05/28/2015	Unk	20	10-20	NP	NP	9.53	Unk
	05/31/2014				NP	NP	8.76	
12458 MW-30	05/28/2015	Unk	20	10-20	9.48	2.50	11.98	Unk
	05/12/2014				8.7	1.88	10.58	
12458 MW-31	05/28/2015	92.79	20	5-15	Well Destroyed			
	05/31/2014				N/A	N/A	N/A	N/A
	06/15/2011				NP	NP	10.21	82.58
12458 DMW-1	05/28/2015	94.71	78	73-78	NP	NP	10.59	84.12
	05/31/2014				NP	NP	9.81	84.90
	11/15/2007				NP	NP	13.49	81.22
12458 DMW-2	05/28/2015	Unk	80	75-80	NP	NP	16.08	Unk
	05/13/2014				NP	NP	10.66	
	11/15/2007				NP	NP	13.76	
12458 DMW-3	05/28/2015	Unk	112	107-112	NP	NP	11.28	Unk
	05/13/2014				NP	NP	10.25	
12458 KMO-3	05/28/2015	87.86	14	4-14	NP	NP	6.46	81.40
	05/12/2014				NP	NP	5.80	82.06
	04/28/2011				NP	NP	7.28	80.58
12458 KMO-5	05/28/2015	88.22	14	4-14	NP	NP	6.47	81.75
	05/12/2014				NP	NP	5.75	82.47
	04/28/2011				NP	NP	7.52	80.70
12458 KMO-6	05/28/2015	86.17	15	5-15	NP	NP	6.56	79.61
	05/12/2014				NP	NP	6.15	80.02
	04/28/2011				NP	NP	7.15	79.02
12458 KMO-10	05/28/2015	84.63	15	5-15	NP	NP	7.00	77.63
	05/12/2014				NP	NP	8.25	76.38
	04/28/2011				NP	NP	5.85	78.78
12458 KMO-11	05/28/2015	83.38	12	2-12	NP	NP	6.14	77.24
	05/12/2014				NP	NP	5.85	77.53
	04/28/2011				NP	NP	6.02	77.36
12458 KMO-12	05/28/2015	85.45	15	5-15	NP	NP	5.27	80.18
	05/12/2014				NP	NP	5.50	79.95
	04/28/2011				NP	NP	5.93	79.52
12458 KMO-17	05/28/2015	87.79	15	5-15	NP	NP	7.98	79.81
	05/12/2014				NP	NP	7.15	80.64
	04/28/2011				NP	NP	7.88	79.91
	11/15/2007				NP	NP	10.13	77.66
12458 KMO-18	05/28/2015	85.93	15	5-15	NP	NP	6.74	79.19
	05/12/2014				NP	NP	5.45	80.48
	04/28/2011				NP	NP	5.77	80.16
	04/28/2011				NP	NP	8.36	77.57

(1): Depth to water measured from top of casing
(2): Depth to water corrected for presence of product using density corrective factor of 0.73 g/cc
(3): NP: free product not present
(4): Unk = Unknown

Table 2
Groundwater Analytical Results
Former Pantry #585
1502 East Greenville Street
Anderson, Anderson County, South Carolina
UST Permit #12458

Well ID	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naphthalene	EDB	1,2 DCA	3,3-Dimethyl-1-butanol	di-isopropyl ether	Ethanol	tert-Butyl alcohol	tert-Amyl alcohol	tert-Amyl ethyl ether	Ethyl tert-butyl ether	tert Butyl formate
12458 MW-PL-1	05/29/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<0.0203	<1.00	<5.00	<1.00	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00
12458 MW-PL-2	05/29/2015	1.45	2.70	1.08	10.4	20.4	5.28	<0.0201	<1.00	<5.00	3.96	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00
12458 MW-PL-3	05/29/2015	<1.00	1.07	<1.00	5.36	<2.00	4.86	<0.0204	<1.00	<5.00	<1.00	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00
12458 MW-1	05/29/2015	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP
12458 MW-4	05/29/2015	<1.00	<1.00	<1.00	4.30	<2.00	<1.00	<0.0199	<1.00	<5.00	<1.00	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00
12458 MW-5	05/29/2015	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP
12458 MW-6	05/29/2015	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP
12458 MW-7	05/29/2015	<1.00	1.48	<1.00	10.2	<2.00	5.58	<0.0203	<1.00	<5.00	<1.00	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00
12458 MW-8	05/29/2015	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP
12458 MW-9	05/29/2015	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP
12458 MW-11	05/29/2015	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP
12458 MW-12	05/29/2015	**7,820**	**14,900**	**1,540**	**8,050**	**2,430**	**816**	**0.308**	<1.00	<5.00	**436**	<20.0	1,280	<5.00	<1.00	<1.00	<5.00
12458 MW-13	05/29/2015	**1,800**	636	390	999	7.89	**484**	<0.0204	<1.00	<5.00	16.9	<20.0	89.3	**1,180**	<1.00	<1.00	<5.00
12458 MW-14	05/29/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<0.0207	<1.00	<5.00	<1.00	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00
12458 MW-15	05/29/2015	<1.00	2.61	<1.00	3.79	<2.00	4.76	<0.0203	<1.00	<5.00	<1.00	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00
12458 MW-16	05/29/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<0.0200	<1.00	<5.00	<1.00	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00
12458 MW-17	05/29/2015	**3,240**	**16,800**	**1,830**	**11,400**	5.47	**980**	**0.0692**	<1.00	796	**82.6**	<20.0	495	**1,360**	14	<1.00	<5.00
12458 MW-18D	05/28/2015	**10.8**	55.3	6.66	42	<2.00	20.9	<0.0203	<1.00	<5.00	<1.00	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00
12458 MW-19D	05/29/2015	2.56	23.5	3.02	21.0	<2.00	5.77	<0.0202	<1.00	<5.00	<1.00	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00
12458 MW-20D	05/28/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<0.0208	<1.00	<5.00	<1.00	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00
12458 MW-21D	05/28/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<0.0208	<1.00	<5.00	<1.00	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00
12458 MW-22D	05/29/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<0.0206	<1.00	<5.00	<1.00	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00
12458 MW-23	05/29/2015	**136**	43	36	109	**181**	9.94	<0.0211	<1.00	133	31.5	<20.0	136	**619**	4.91	<1.00	<5.00
12458 MW-24	05/29/2015	**624**	27.9	7.53	22.1	**2,060**	6.21	<0.0208	<1.00	919	**207**	<20.0	**1,930**	**6,840**	43.6	<1.00	<5.00
12458 MW-25	05/29/2015	111	30.6	7.56	167	<2.00	**41.3**	<0.0205	<1.00	111	<1.00	<20.0	<5.00	**435**	<1.00	<1.00	<5.00
12458 MW-26	05/29/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<0.0209	<1.00	<5.00	<1.00	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00
12458 MW-27	05/29/2015	733	267	179	341	**78.1**	**78.2**	<0.0213	<1.00	163	37.2	<20.0	101	**558**	5.86	<1.00	<5.00
12458 MW-28	05/29/2015	<1.00	<1.00	<1.00	<1.00	3.38	<1.00	<0.0207	<1.00	<5.00	<1.00	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00
12458 MW-30	05/29/2015	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP	NSP
12458 DMW-1	05/28/2015	**20.7**	32.3	2.66	16.0	12.9	<1.00	<0.0206	<1.00	<5.00	2.13	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00
12458 DMW-2	05/28/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<0.0204	<1.00	<5.00	<1.00	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00
12458 DMW-3	05/29/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<0.0195	<1.00	<5.00	<1.00	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00
12458 KMO-3	05/29/2015	**32.4**	<1.00	8.23	11.6	**80.3**	<1.00	<0.0202	<1.00	<5.00	**83.4**	<20.0	279	86.2	3.57	<1.00	<5.00
12458 KMO-5	05/29/2015	3.28	<1.00	<1.00	<1.00	<2.00	<1.00	<0.0202	<1.00	<5.00	<1.00	<20.0	<5.00	93.3	<1.00	<1.00	<5.00
12458 KMO-6	05/29/2015	**38.3**	1.08	6.98	7.72	**52.7**	<1.00	<0.0205	<1.00	<5.00	61.7	<20.0	258	81.4	6.36	<1.00	<5.00
12458 KMO-10	05/29/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<0.0198	<1.00	<5.00	<1.00	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00
12458 KMO-11	05/29/2015	<1.00	<1.00	<1.00	<1.00	12	<1.00	<0.0201	<1.00	<5.00	11.3	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00
12458 KMO-12	05/29/2015	<1.00	<1.00	<1.00	<1.00	16.5	<1.00	<0.0201	<1.00	<5.00	9.21	<20.0	<5.00	73.6	<1.00	<1.00	<5.00
12458 KMO-17	05/29/2015	**31.8**	335	282	594	<2.00	**116**	0.0142	<1.00	101	<1.00	<20.0	<5.00	93.8	<1.00	<1.00	<5.00
12458 KMO-18	05/29/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<0.0199	<1.00	<5.00	3.55	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00
RBSL		**5**	1,000	700	10,000	40	**25**	**0.05**	NE	NE	70	2,000	1,400	240	128	47	NE

Notes:
1. Units = µg/L
2. MTBE = Methyl Tertiary Butyl Ether; EDB = 1,2-Dibromoethane
3. "<" = Not detected at or above the laboratory reporting limit
4. J = Result is less than the Reporting Limit but greater than or equal to the Method detection li
5. RBSL = Risk Based Screening Level
6. Bold concentrations equal or exceed the corresponding RBSL
7. NE = Not established
8. NSP = Well not sampled-due to free product
9. NSD = Well not sampled-dry
10. NSI = Well not sampled-inaccessable during sampling event

Table 3
Historical Groundwater Analytical Results
Former Pantry #585
1502 East Greenville Street
Anderson, Anderson County, South Carolina
UST Permit #12458

Well ID	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naphthalene	EDB (8011)
12458 MW-PL-1	05/29/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<0.0203
	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0.021
	04/28/2011	< 1	< 1	< 1	< 2	< 1	< 5	<0.046
12458 MW-PL-2	05/29/2015	1.45	2.70	1.08	10.4	20.4	5.28	<0.0201
	05/12/2014	< 1	< 1	< 1	< 2	17	< 5	< 0.022
	04/28/2011	< 1	< 1	< 1	< 2	< 1	< 5	<0.044
12458 MW-PL-3	05/29/2015	<1.00	1.07	<1.00	5.36	<2.00	4.88	<0.0204
	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0.022
	04/28/2011	< 1	< 1	< 1	< 2	< 1	< 5	<0.043
12458 MW-1	05/28/2015	NSP	NSP	NSP	NSP	NSP	NSP	NSP
	05/12/2014	NSP	NSP	NSP	NSP	NSP	NSP	NSP
	11/15/2007	**6,200**	**8,600**	**1,600**	7,200	**2,400**	**810**	NS
	April 2007	NS	NS	NS	NS	NS	NS	NS
	June 2006	NS	NS	NS	NS	NS	NS	NS
	November 2000	**7,050**	**13,100**	**1,590**	7,590	**2,470**	**610**	NS
12458 MW-2	05/28/2015	Well Destroyed						
	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0.021
	11/15/2007	<1	<1	<1	<1	<1	<5	NS
	April 2007	<5	<5	<5	<5	<5	<5	NS
	June 2006	<5	<5	<5	<5	<5	<5	NS
	November 2000	2.1	25	5.1	39.6	<2	14.9	NS
12458 MW-3	05/28/2015	Well Destroyed						
	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0.021
	11/15/2007	< 1	< 1	< 1	<1	< 1	< 5	NS
	April 2007	<5	<5	<5	<5	<5	<5	NS
	June 2006	<5	<5	<5	<5	<5	<5	NS
	November 2000	<2	4.1	<2	<2	<2	15.9	NS
12458 MW-4	05/29/2015	<1.00	<1.00	<1.00	4.30	<2.00	<1.00	<0.0199
	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0.022
	11/15/2007	**3,400**	**2,900**	**870**	1,770	**890**	**340**	NS
	April 2007	**2,200**	**2,100**	530	930	**660**	**180**	NS
12458 MW-5	05/28/2015	NSP	NSP	NSP	NSP	NSP	NSP	NSP
	11/15/2007	**22,000**	**30,000**	**2,500**	**14,600**	**160**	**<500**	NS
	April 2007	NS	NS	NS	NS	NS	NS	NS
12458 MW-6	05/28/2015	NSP	NSP	NSP	NSP	NSP	NSP	NSP
	11/15/2007	**620**	**1,500**	260	1,080	19	**75**	NS
	April 2007	**2,800**	**24,000**	**3,100**	**13,200**	<1,000	**2,000**	NS
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**0.05**

Table 3
Historical Groundwater Analytical Results
Former Pantry #585
1502 East Greenville Street
Anderson, Anderson County, South Carolina
UST Permit #12458

Well ID	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naphthalene	EDB (8011)
12458 MW-7	05/29/2015	<1.00	1.48	<1.00	10.2	<2.00	5.58	<0.0203
	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0.021
	11/15/2007	<1	<1	<1	<1	<1	<5	NS
	April 2007	<5	<5	<5	<5	<5	<5	NS
12458 MW-8	05/28/2015	NSP	NSP	NSP	NSP	NSP	NSP	NSP
12458 MW-9	05/28/2015	NSP	NSP	NSP	NSP	NSP	NSP	NSP
12458 MW-10	05/28/2015	Well Destroyed						
12458 MW-11	05/28/2015	NSP	NSP	NSP	NSP	NSP	NSP	NSP
12458 MW-12	05/29/2015	**7,820**	**14,900**	**1,540**	8,050	**2,430**	**816**	**0.309**
	05/13/2014	**23,000**	**22,000**	**2,000**	8,100	**12,000**	**540**	< 0.022
12458 MW-13	05/29/2015	**1,500**	636	390	999	7.89	**454**	<0.0204
	05/12/2014	**2,900**	860	**720**	990	< 5	**280**	< 0.021
12458 MW-14	05/29/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<0.0207
	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0.021
12458 MW-15	05/29/2015	<1.00	2.61	<1.00	3.79	<2.00	4.76	<0.0203
	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0.021
12458 MW-16	05/29/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<0.0200
	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0.021
12458 MW-17	05/29/2015	**3,240**	**16,800**	**1,830**	**11,400**	5.47	**960**	**0.0592**
	08/01/2014	**4,000**	**19,000**	**1,500**	**10,000**	< 50	**610**	< 0.021
12458 MW-18D	05/28/2015	**10.6**	55.3	6.66	42	<2.00	20.9	<0.0203
	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0.021
12458 MW-19D	05/29/2015	2.56	23.5	3.02	21.0	<2.00	5.77	<0.0202
	05/13/2014	< 1	1	< 1	< 2	< 1	< 5	< 0.021
12458 MW-20D	05/28/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<0.0208
	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0.021
12458 MW-21D	05/28/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<0.0208
	05/12/2014	< 1	< 1	< 1	< 2	1.1	< 5	< 0.021
12458 MW-22D	05/29/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<0.0206
	05/31/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0.023
12458 MW-23	05/29/2015	**138**	43	36	109	**151**	9.94	<0.0211
	05/31/2014	**34**	21	9.1	63	**83**	10	< 0.022
12458 MW-24	05/29/2015	**624**	27.9	7.53	22.1	**2,050**	6.21	<0.0208
	05/31/2014	**680**	92	19	83	**3,100**	**33**	< 0.023
12458 MW-25	05/29/2015	**111**	30.6	7.56	167	<2.00	**41.3**	<0.0205
	05/13/2014	**53**	43	17	154	< 1	**28**	< 0.022
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**0.05**

Table 3
Historical Groundwater Analytical Results
Former Pantry #585
1502 East Greenville Street
Anderson, Anderson County, South Carolina
UST Permit #12458

Well ID	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naphthalene	EDB (8011)
12458 MW-26	05/29/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<0.0209
	05/13/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0.021
12458 MW-27	05/29/2015	**733**	267	179	341	**79.1**	**75.2**	<0.0213
	05/13/2014	**1,200**	**2,600**	**950**	5,600	**120**	**650**	< 0.022
12458 MW-28	05/29/2015	<1.00	<1.00	<1.00	<1.00	3.38	<1.00	<0.0207
	05/31/2014	< 1	< 1	< 1	< 2	8.3	< 5	< 0.021
12458 MW-30	05/28/2015	NSP	NSP	NSP	NSP	NSP	NSP	NSP
12458 MW-31	05/28/2015	Well Destroyed						
12458 DMW-1	05/28/2015	**20.7**	32.3	2.66	16.0	12.9	<1.00	<0.0206
	05/31/2014	**19**	23	2.3	16.2	16	< 5	< 0.023
	11/15/2007	**300**	490	90	420	210	31	NS
	April 2007	**13**	19	<5	<5	<5	<5	NS
12458 DMW-2	05/28/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<0.0204
	05/13/2014	**6.2**	37	12	74	< 1	6.6	< 0.021
12458 DMW-3	05/28/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<0.0195
	05/13/2014	< 1	1.3	< 1	< 2	< 1	< 5	< 0.021
12458 KMO-3	05/29/2015	**32.4**	<1.00	8.23	11.6	**60.3**	<1.00	<0.0202
	05/12/2014	**80**	1.5	13	12.3	**74**	12	< 0.022
	04/28/2011	NSI	NSI	NSI	NSI	NSI	NSI	NSI
12458 KMO-5	05/29/2015	3.28	<1.00	<1.00	<1.00	<2.00	<1.00	<0.0202
	05/12/2014	1	< 1	< 1	< 2	< 1	< 5	< 0.021
	04/28/2011	NS	NS	NS	NS	NS	NS	NS
12458 KMO-6	05/29/2015	**36.3**	1.08	6.98	7.72	**62.7**	<1.00	<0.0205
	05/12/2014	< 1	< 1	< 1	< 2	6.2	< 5	< 0.021
	04/28/2011	NSI	NSI	NSI	NSI	NSI	NSI	NSI
12458 KMO-10	05/29/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<0.0198
	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0.021
	04/28/2011	NSI	NSI	NSI	NSI	NSI	NSI	NSI
12458 KMO-11	05/29/2015	<1.00	<1.00	<1.00	<1.00	12	<1.00	<0.0201
	05/12/2014	< 1	< 1	< 1	< 2	3	< 5	< 0.023
	04/28/2011	NSI	NSI	NSI	NSI	NSI	NSI	NSI
12458 KMO-12	05/29/2015	<1.00	<1.00	<1.00	<1.00	16.5	<1.00	<0.0201
	05/12/2014	< 1	< 1	< 1	< 2	19	< 5	< 0.021
	04/28/2011	NSI	NSI	NSI	NSI	NSI	NSI	NSI
12458 KMO-17	05/29/2015	**31.8**	335	282	594	<2.00	**118**	0.0142
	05/12/2014	**13**	95	80	188	< 1	**38**	< 0.021
	04/28/2011	NSI	NSI	NSI	NSI	NSI	NSI	NSI
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**0.05**

Table 3
Historical Groundwater Analytical Results
Former Pantry #585
1502 East Greenville Street
Anderson, Anderson County, South Carolina
UST Permit #12458

Well ID	Sample Date	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	Naphthalene	EDB (8011)
12458 KMO-18	05/29/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<0.0199
	05/12/2014	< 1	< 1	< 1	< 2	< 1	< 5	< 0.021
	04/28/2011	NSI	NSI	NSI	NSI	NSI	NSI	NSI
RBSL		**5**	**1,000**	**700**	**10,000**	**40**	**25**	**0.05**

Notes:
1. Units = µg/L
2. MTBE = Methyl Tertiary Butyl Ether; EDB = 1,2-Dibromoethane
3. "<" = Not detected at or above the laboratory reporting limit
4. J = Result is less than the Reporting Limit but greater than or equal to the Method detection limit
5. RBSL = Risk Based Screening Level
6. **Bold** concentrations equal or exceed the corresponding RBSL
7. NSP = Well not sampled-due to free product
8. NSD = Well not sampled-dry
9. NSI = Well not sampled-inaccessable during sampling event

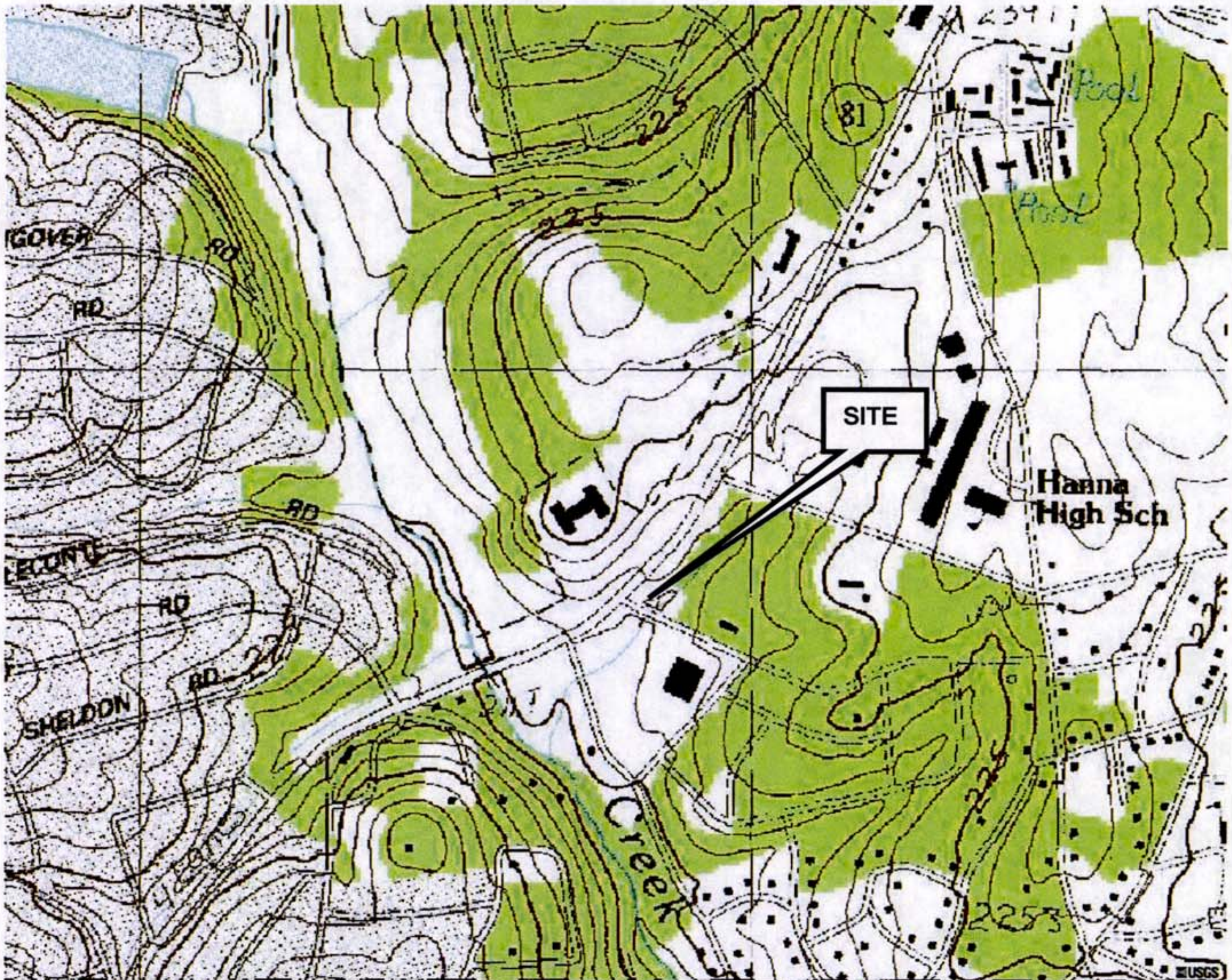
Table 4
Data Quality Indicator Analysis
Former Pantry #585
Anderson, Anderson County, South Carolina
UST Permit #12458

Well Location	Sample Date	Petroleum Constituents (ug/L)									Oxygenates (ug/L)							Comments / Notes
		Benzene	Toluene	Ethylbenzene	Total (m,o,p) Xylenes	MTBE	Naphthalene (by 8260)	1,2 - Dibromoethane (EDB) by 8011	1,2 - Dichloroethane (DCA)	3,3-Dimethyl-1-butanol	Di isopropyl ether	Ethanol	tert-Butyl alcohol	tert-Amyl alcohol	tert-Amyl ethyl ether	ethyl tert-Butyl ether	tert-Butyl formate	
Precision Analysis																		
Precision Limit (RPD %)		**20**	**20**	**20**	**20**	**20**	**20**	**20**	**20**	**20**	**20**	**20**	**20**	**20**	**20**	**20**	**20**	
12458 MW-25	05/29/2015	111	30.6	7.56	157	<2.00	41.3	<0.0205	<1.00	111	<1.00	<20.0	<5.00	435	<1.00	<1.00	<5.00	no dilution
DUP-1	05/29/2015	81.1	32.8	2.10	151	<2.00	35.9	<0.0203	<1.00	96.8	<1.00	<20.0	<5.00	331	<1.00	<1.00	<5.00	no dilution
RPD (%)		**31%**	**7%**	**113%**	**10%**	---	**14%**	---	---	**14%**	---	---	---	**27%**	---	---	---	
12458 MW-23	05/29/2015	138	43	36	109	151	9.94	<0.0211	<1.00	133	31.5	<20.0	138	619	4.91	<1.00	<5.00	no dilution
DUP-2	05/29/2015	254	108	53.3	180	387	27.7	<0.0204	<1.00	305	71.4	<20.0	248	1820	15.4	<1.00	<5.00	10 x dilution for B, tAA
RPD (%)		**59%**	**86%**	**39%**	**49%**	**88%**	**94%**	---	---	**79%**	**78%**	---	**57%**	**98%**	**103%**	---	---	
Bias Analysis																		
Trip Blank	05/28/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	--	<1.00	<5.00	<1.00	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00	No Errors Indicated
Field Blank-1	05/28/2015	<1.00	<1.00	<1.00	<1.00	<2.00	4.85	<0.0201	<1.00	<5.00	<1.00	<20.0	15.5	<5.00	<1.00	<1.00	<5.00	detections in blank
Field Blank-2	05/29/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<0.0200	<1.00	<5.00	<1.00	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00	No Errors Indicated
Method Sensitivity																		
Sensitivity Limits (GW - µg/L)		**5**	**5**	**5**	**10**	**5**	**5**	**0.05**	**5**	**100**	**10**	**1,000**	**100**	**100**	**10**	**100**	**100**	
12458 MW-PL-1	05/29/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<0.0203	<1.00	<5.00	<1.00	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00	all limits met
12458 MW-PL-2	05/29/2015	1.45	2.70	1.08	10.4	20.4	5.28	<0.0201	<1.00	<5.00	3.96	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00	all limits met
12458 MW-PL-3	05/29/2015	<1.00	1.07	<1.00	5.36	<2.00	4.88	<0.0204	<1.00	<5.00	<1.00	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00	all limits met
12458 MW-4	05/29/2015	<1.00	<1.00	<1.00	4.30	<2.00	<1.00	<0.0199	<1.00	<5.00	<1.00	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00	all limits met
12458 MW-7	05/29/2015	<1.00	1.48	<1.00	10.2	<2.00	5.58	<0.0203	<1.00	<5.00	<1.00	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00	all limits met
12458 MW-12	05/29/2015	7,820	14,900	1,540	8,050	2,430	816	0.309	<1.00	<5.00	436	<20.0	1,280	<5.00	<1.00	<1.00	<5.00	all limits met
12458 MW-13	05/29/2015	1,500	636	390	999	7.89	454	<0.0204	<1.00	<5.00	18.9	<20.0	39.3	1,180	<1.00	<1.00	<5.00	all limits met
12458 MW-14	05/29/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<0.0207	<1.00	<5.00	<1.00	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00	all limits met
12458 MW-15	05/29/2015	<1.00	2.61	<1.00	3.79	<2.00	4.76	<0.0203	<1.00	<5.00	<1.00	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00	all limits met
12458 MW-16	05/29/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<0.0200	<1.00	<5.00	<1.00	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00	all limits met
12458 MW-17	05/29/2015	3,240	16,800	1,830	11,400	5.47	966	0.0592	<1.00	756	82.6	<20.0	495	1,360	14	<1.00	<5.00	all limits met
12458 MW-18D	05/28/2015	10.6	55.3	6.66	42	<2.00	20.9	<0.0203	<1.00	<5.00	<1.00	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00	all limits met
12458 MW-19D	05/29/2015	2.56	23.5	3.02	21.0	<2.00	5.77	<0.0202	<1.00	<5.00	<1.00	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00	all limits met
12458 MW-20D	05/28/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<0.0208	<1.00	<5.00	<1.00	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00	all limits met
12458 MW-21D	05/28/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<0.0208	<1.00	<5.00	<1.00	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00	all limits met
12458 MW-22D	05/29/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<0.0206	<1.00	<5.00	<1.00	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00	all limits met
12458 MW-23	05/29/2015	138	43	36	109	151	9.94	<0.0211	<1.00	133	31.5	<20.0	138	619	4.91	<1.00	<5.00	all limits met
12458 MW-24	05/29/2015	624	27.5	7.53	22.1	2,050	6.21	<0.0208	<1.00	919	207	<20.0	1,930	6,840	43.6	<1.00	<5.00	all limits met
12458 MW-25	05/29/2015	111	30.6	7.56	157	<2.00	41.3	<0.0205	<1.00	111	<1.00	<20.0	<5.00	435	<1.00	<1.00	<5.00	all limits met
12458 MW-26	05/29/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<0.0209	<1.00	<5.00	<1.00	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00	all limits met
12458 MW-27	05/29/2015	733	267	179	341	79.1	15.2	<0.0213	<1.00	163	37.2	<20.0	101	556	5.86	<1.00	<5.00	all limits met
12458 MW-28	05/29/2015	<1.00	<1.00	<1.00	<1.00	3.38	<1.00	<0.0207	<1.00	<5.00	<1.00	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00	all limits met
12458 DMW-1	05/28/2015	20.7	32.3	2.66	16.0	12.9	<1.00	<0.0206	<1.00	<5.00	2.13	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00	all limits met
12458 DMW-2	05/28/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<0.0204	<1.00	<5.00	<1.00	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00	all limits met
12458 DMW-3	05/28/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<0.0195	<1.00	<5.00	<1.00	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00	all limits met
12458 KMO-3	05/29/2015	32.4	<1.00	8.23	11.6	60.3	<1.00	<0.0202	<1.00	<5.00	93.4	<20.0	279	56.2	3.57	<1.00	<5.00	all limits met
12458 KMO-5	05/29/2015	3.28	<1.00	<1.00	<1.00	<2.00	<1.00	<0.0202	<1.00	<5.00	<1.00	<20.0	<5.00	93.3	<1.00	<1.00	<5.00	all limits met
12458 KMO-6	05/29/2015	36.3	1.08	6.98	7.72	62.7	<1.00	<0.0205	<1.00	<5.00	61.7	<20.0	258	81.4	6.38	<1.00	<5.00	all limits met
12458 KMO-10	05/29/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<0.0198	<1.00	<5.00	<1.00	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00	all limits met
12458 KMO-11	05/29/2015	<1.00	<1.00	<1.00	<1.00	12	<1.00	<0.0201	<1.00	<5.00	11.3	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00	all limits met
12458 KMO-12	05/29/2015	<1.00	<1.00	<1.00	<1.00	16.5	<1.00	<0.0201	<1.00	<5.00	9.21	<20.0	<5.00	73.6	<1.00	<1.00	<5.00	all limits met
12458 KMO-17	05/29/2015	31.8	335	282	594	<2.00	118	0.0142	<1.00	101	<1.00	<20.0	<5.00	90.8	<1.00	<1.00	<5.00	all limits met
12458 KMO-18	05/29/2015	<1.00	<1.00	<1.00	<1.00	<2.00	<1.00	<0.0199	<1.00	<5.00	3.56	<20.0	<5.00	<5.00	<1.00	<1.00	<5.00	all limits met

Notes:

1. Concentrations in µg/L (micrograms per liter)
2. "<" = Not present above analytical method detection limit (detection limit in µg/l)
3. J = Estimated result
4. NA = Not Analyzed; NSP = Well not sampled due to free product; NSD = Well not Sampled due to Dry Well
5. --- = No Data

FIGURES



↑N

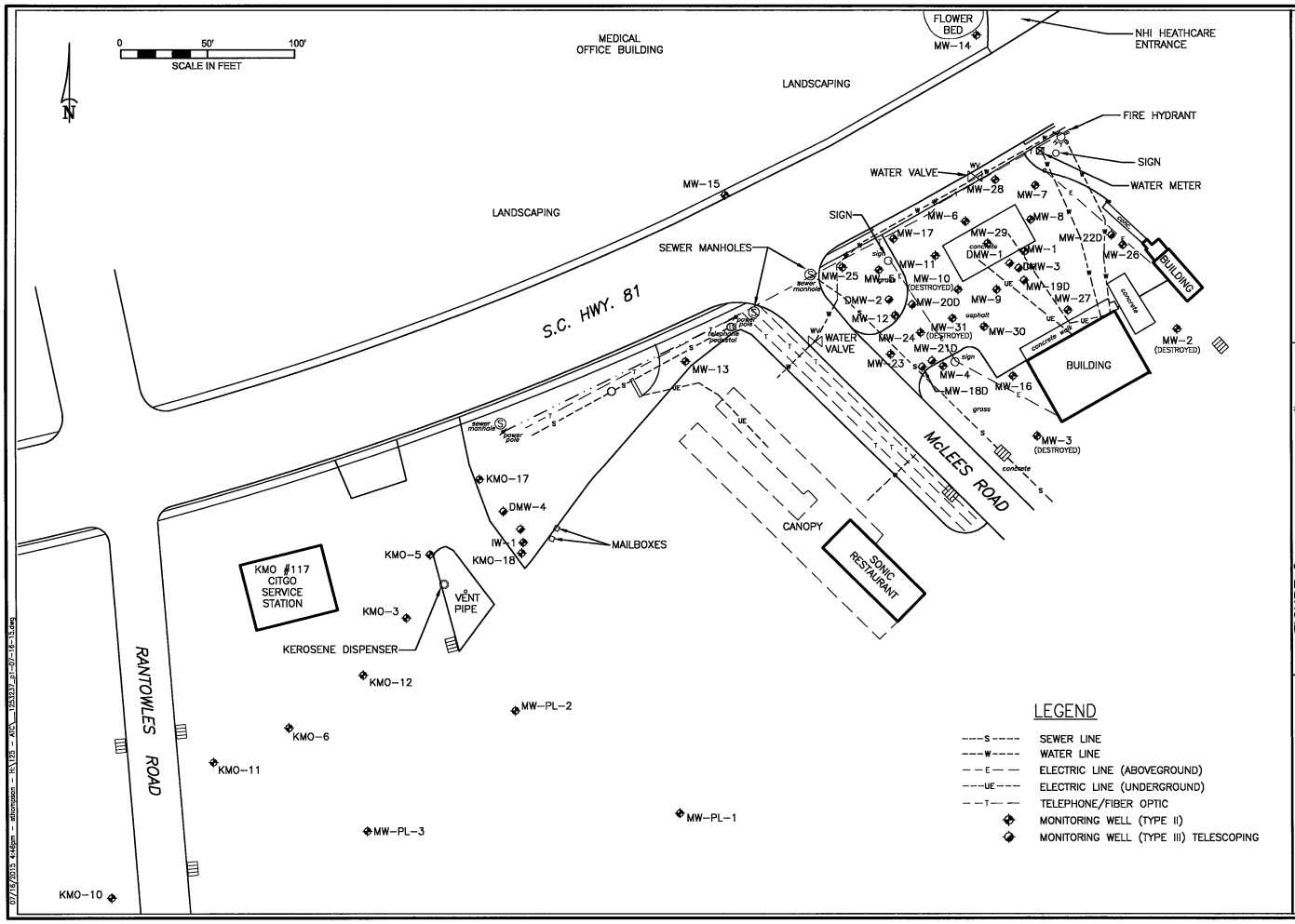
Figure 1: Site Location Map
Pantry #585 (81 Food Mart)
1502 East Greenville Street
Anderson, Anderson County, South Carolina
UST Permit #12458

Cardno ATC
Shaping the Future

400 Northeast Drive, Unit Q Phone (803) 735-0003
Columbia, South Carolina Fax (803) 735-0443

ATC PROJECT No: 14.25384.0585

SOURCE: USGS Topographic Map Anderson, SC Quadrangle | 1"= 885'



Gardno ATC
Shaping the Future
7499 Parklane Road, Suite 112
Columbia, South Carolina 29223
(803) 735-0003 FAX (803) 929-6065

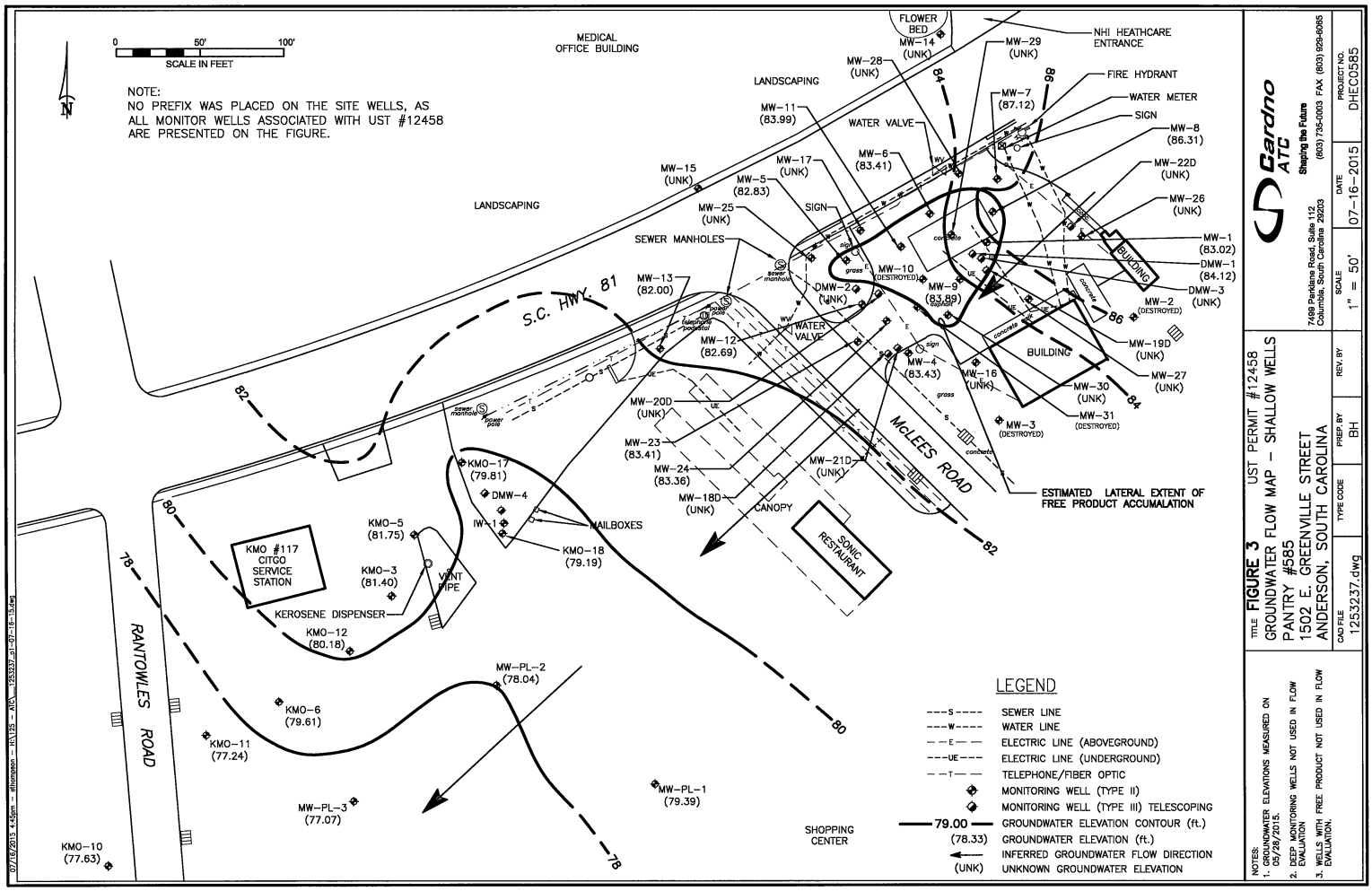
PROJECT NO.	DATE	SCALE	REV. BY	PREP. BY	TYPE CODE	CAD FILE
DHEC0585	07-16-2015	1" = 50'		BH		1253237.dwg

TITLE **FIGURE 2**
SITE MAP
PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

UST PERMIT #12458

NOTES:

07/16/2015 4:46pm - dthompson - H:\125 - ATC\ - 1253237.dwg - 07-16-15.dwg

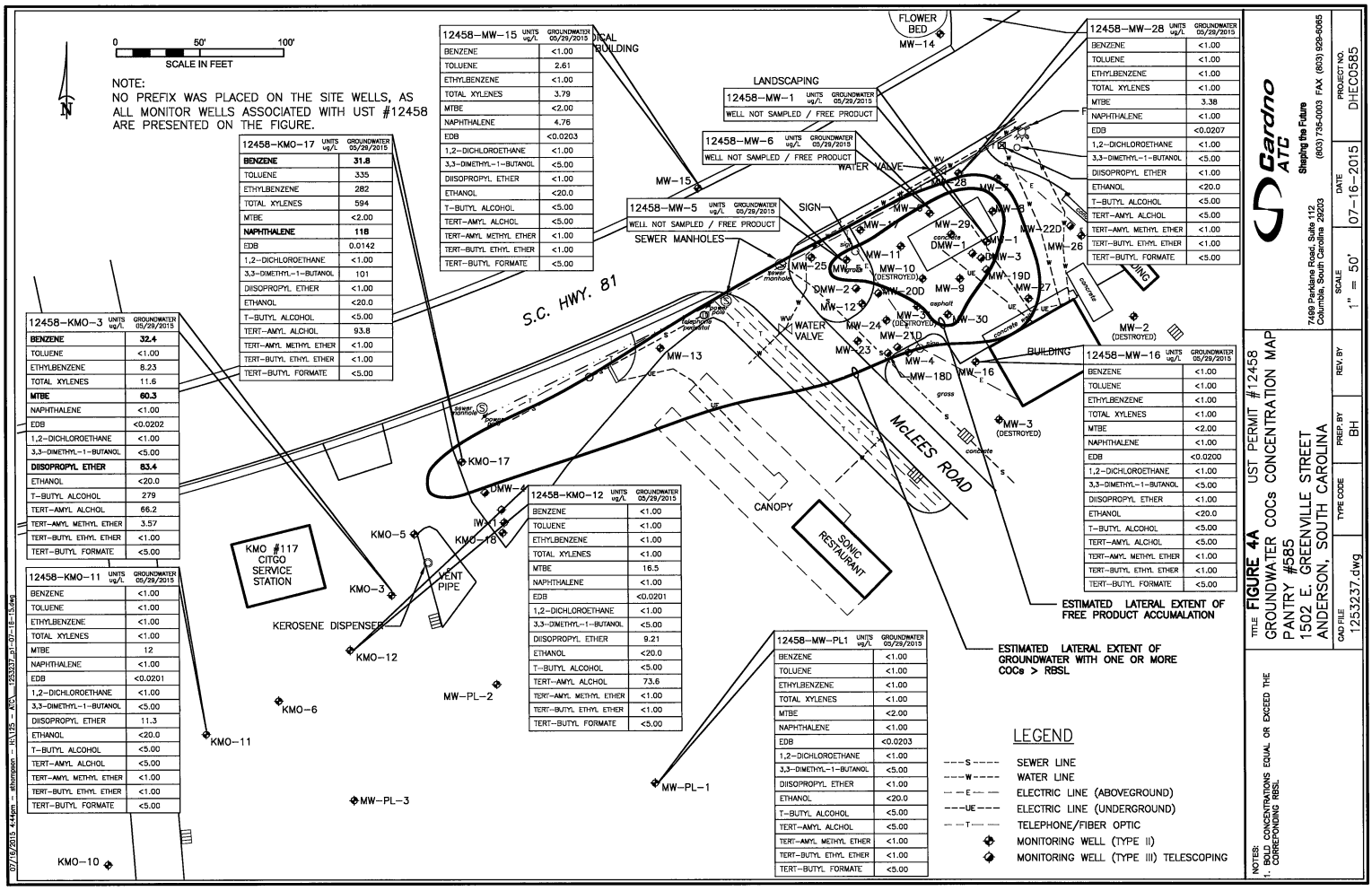


NOTES:
1. GROUNDWATER ELEVATIONS MEASURED ON 05/28/2015.
2. DEEP MONITORING WELLS NOT USED IN FLOW EVALUATION
3. WELLS WITH FREE PRODUCT NOT USED IN FLOW EVALUATION.

TITLE **FIGURE 3** UST PERMIT #12458
GROUNDWATER FLOW MAP – SHALLOW WELLS
PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

CAD FILE	TYPE CODE	PREP. BY	REV. BY	SCALE	DATE	PROJECT NO.
1253237.dwg		BH		1" = 50'	07-16-2015	DHEC0585

Gardno ATC
Shaping the Future
7109 Parklane Road, Suite 112
Columbia, South Carolina 29223
(803) 735-0003 FAX (803) 929-6085



12458-MW-15	UNITS ug/L	GROUNDWATER 05/29/2015
BENZENE		<1.00
TOLUENE		2.61
ETHYLBENZENE		<1.00
TOTAL XYLENES		3.79
MTBE		<2.00
NAPHTHALENE		4.76
EDB		<0.0203
1,2-DICHLOROETHANE		<1.00
3,3-DIMETHYL-1-BUTANOL		<5.00
DIISOPROPYL ETHER		<1.00
ETHANOL		<20.0
T-BUTYL ALCOHOL		<5.00
TERT-AMYL ALCHOL		<5.00
TERT-AMYL METHYL ETHER		<1.00
TERT-BUTYL ETHYL ETHER		<1.00
TERT-BUTYL FORMATE		<5.00

12458-MW-1	UNITS ug/L	GROUNDWATER 05/29/2015
WELL NOT SAMPLED / FREE PRODUCT		

12458-MW-6	UNITS ug/L	GROUNDWATER 05/29/2015
WELL NOT SAMPLED / FREE PRODUCT		

12458-MW-5	UNITS ug/L	GROUNDWATER 05/29/2015
WELL NOT SAMPLED / FREE PRODUCT		

12458-MW-28	UNITS ug/L	GROUNDWATER 05/29/2015
BENZENE		<1.00
TOLUENE		<1.00
ETHYLBENZENE		<1.00
TOTAL XYLENES		<1.00
MTBE		3.38
NAPHTHALENE		<1.00
EDB		<0.0207
1,2-DICHLOROETHANE		<1.00
3,3-DIMETHYL-1-BUTANOL		<5.00
DIISOPROPYL ETHER		<1.00
ETHANOL		<20.0
T-BUTYL ALCOHOL		<5.00
TERT-AMYL ALCHOL		<5.00
TERT-AMYL METHYL ETHER		<1.00
TERT-BUTYL ETHYL ETHER		<1.00
TERT-BUTYL FORMATE		<5.00

12458-KMO-17	UNITS ug/L	GROUNDWATER 05/29/2015
BENZENE		**31.8**
TOLUENE		335
ETHYLBENZENE		282
TOTAL XYLENES		594
MTBE		<2.00
NAPHTHALENE		**118**
EDB		0.0142
1,2-DICHLOROETHANE		<1.00
3,3-DIMETHYL-1-BUTANOL		101
DIISOPROPYL ETHER		<1.00
ETHANOL		<20.0
T-BUTYL ALCOHOL		<5.00
TERT-AMYL ALCHOL		93.8
TERT-AMYL METHYL ETHER		<1.00
TERT-BUTYL ETHYL ETHER		<1.00
TERT-BUTYL FORMATE		<5.00

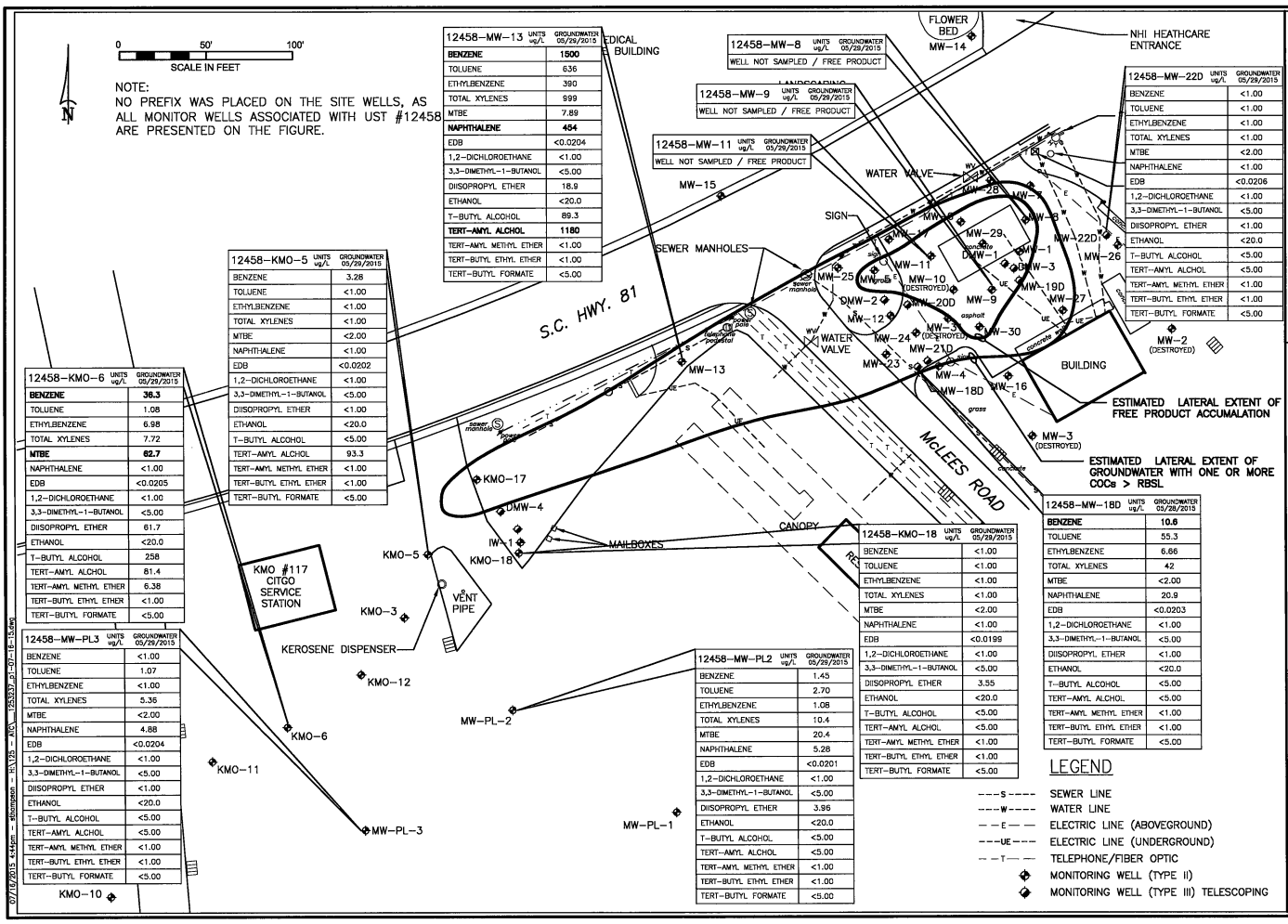
12458-KMO-3	UNITS ug/L	GROUNDWATER 05/29/2015
BENZENE		**32.4**
TOLUENE		<1.00
ETHYLBENZENE		8.23
TOTAL XYLENES		11.6
MTBE		**60.3**
NAPHTHALENE		<1.00
EDB		<0.0202
1,2-DICHLOROETHANE		<1.00
3,3-DIMETHYL-1-BUTANOL		<5.00
DIISOPROPYL ETHER		**83.4**
ETHANOL		<20.0
T-BUTYL ALCOHOL		279
TERT-AMYL ALCHOL		66.2
TERT-AMYL METHYL ETHER		3.57
TERT-BUTYL ETHYL ETHER		<1.00
TERT-BUTYL FORMATE		<5.00

12458-KMO-11	UNITS ug/L	GROUNDWATER 05/29/2015
BENZENE		<1.00
TOLUENE		<1.00
ETHYLBENZENE		<1.00
TOTAL XYLENES		<1.00
MTBE		12
NAPHTHALENE		<1.00
EDB		<0.0201
1,2-DICHLOROETHANE		<1.00
3,3-DIMETHYL-1-BUTANOL		<5.00
DIISOPROPYL ETHER		11.3
ETHANOL		<20.0
T-BUTYL ALCOHOL		<5.00
TERT-AMYL ALCHOL		<5.00
TERT-AMYL METHYL ETHER		<1.00
TERT-BUTYL ETHYL ETHER		<1.00
TERT-BUTYL FORMATE		<5.00

12458-KMO-12	UNITS ug/L	GROUNDWATER 05/29/2015
BENZENE		<1.00
TOLUENE		<1.00
ETHYLBENZENE		<1.00
TOTAL XYLENES		<1.00
MTBE		16.5
NAPHTHALENE		<1.00
EDB		<0.0201
1,2-DICHLOROETHANE		<1.00
3,3-DIMETHYL-1-BUTANOL		<5.00
DIISOPROPYL ETHER		9.21
ETHANOL		<20.0
T-BUTYL ALCOHOL		<5.00
TERT-AMYL ALCHOL		73.6
TERT-AMYL METHYL ETHER		<1.00
TERT-BUTYL ETHYL ETHER		<1.00
TERT-BUTYL FORMATE		<5.00

12458-MW-PL1	UNITS ug/L	GROUNDWATER 05/29/2015
BENZENE		<1.00
TOLUENE		<1.00
ETHYLBENZENE		<1.00
TOTAL XYLENES		<1.00
MTBE		<2.00
NAPHTHALENE		<1.00
EDB		<0.0203
1,2-DICHLOROETHANE		<1.00
3,3-DIMETHYL-1-BUTANOL		<5.00
DIISOPROPYL ETHER		<1.00
ETHANOL		<20.0
T-BUTYL ALCOHOL		<5.00
TERT-AMYL ALCHOL		<5.00
TERT-AMYL METHYL ETHER		<1.00
TERT-BUTYL ETHYL ETHER		<1.00
TERT-BUTYL FORMATE		<5.00

12458-MW-16	UNITS ug/L	GROUNDWATER 05/29/2015
BENZENE		<1.00
TOLUENE		<1.00
ETHYLBENZENE		<1.00
TOTAL XYLENES		<1.00
MTBE		<2.00
NAPHTHALENE		<1.00
EDB		<0.0200
1,2-DICHLOROETHANE		<1.00
3,3-DIMETHYL-1-BUTANOL		<5.00
DIISOPROPYL ETHER		<1.00
ETHANOL		<20.0
T-BUTYL ALCOHOL		<5.00
TERT-AMYL ALCHOL		<5.00
TERT-AMYL METHYL ETHER		<1.00
TERT-BUTYL ETHYL ETHER		<1.00
TERT-BUTYL FORMATE		<5.00



12458-MW-13	UNITS ug/L	GROUNDWATER 05/29/2015
BENZENE		**1500**
TOLUENE		636
ETHYLBENZENE		390
TOTAL XYLENES		999
MTBE		7.89
NAPHTHALENE		**454**
EDB		<0.0204
1,2-DICHLOROETHANE		<1.00
3,3-DIMETHYL-1-BUTANOL		<5.00
DIISOPROPYL ETHER		18.9
ETHANOL		<20.0
T-BUTYL ALCOHOL		89.3
TERT-AMYL ALCHOL		**1180**
TERT-AMYL METHYL ETHER		<1.00
TERT-BUTYL ETHYL ETHER		<1.00
TERT-BUTYL FORMATE		<5.00

12458-MW-8	UNITS ug/L	GROUNDWATER 05/29/2015
WELL NOT SAMPLED / FREE PRODUCT		

12458-MW-9	UNITS ug/L	GROUNDWATER 05/29/2015
WELL NOT SAMPLED / FREE PRODUCT		

12458-MW-11	UNITS ug/L	GROUNDWATER 05/29/2015
WELL NOT SAMPLED / FREE PRODUCT		

12458-MW-22D	UNITS ug/L	GROUNDWATER 05/29/2015
BENZENE		<1.00
TOLUENE		<1.00
ETHYLBENZENE		<1.00
TOTAL XYLENES		<1.00
MTBE		<2.00
NAPHTHALENE		<1.00
EDB		<0.0206
1,2-DICHLOROETHANE		<1.00
3,3-DIMETHYL-1-BUTANOL		<5.00
DIISOPROPYL ETHER		<1.00
ETHANOL		<20.0
T-BUTYL ALCOHOL		<5.00
TERT-AMYL ALCHOL		<5.00
TERT-AMYL METHYL ETHER		<1.00
TERT-BUTYL ETHYL ETHER		<1.00
TERT-BUTYL FORMATE		<5.00

12458-KMO-5	UNITS ug/L	GROUNDWATER 05/29/2015
BENZENE		3.28
TOLUENE		<1.00
ETHYLBENZENE		<1.00
TOTAL XYLENES		<1.00
MTBE		<2.00
NAPHTHALENE		<1.00
EDB		<0.0202
1,2-DICHLOROETHANE		<1.00
3,3-DIMETHYL-1-BUTANOL		<5.00
DIISOPROPYL ETHER		<1.00
ETHANOL		<20.0
T-BUTYL ALCOHOL		<5.00
TERT-AMYL ALCHOL		93.3
TERT-AMYL METHYL ETHER		<1.00
TERT-BUTYL ETHYL ETHER		<1.00
TERT-BUTYL FORMATE		<5.00

12458-KMO-6	UNITS ug/L	GROUNDWATER 05/29/2015
BENZENE		**36.3**
TOLUENE		1.08
ETHYLBENZENE		6.98
TOTAL XYLENES		7.72
MTBE		**62.7**
NAPHTHALENE		<1.00
EDB		<0.0205
1,2-DICHLOROETHANE		<1.00
3,3-DIMETHYL-1-BUTANOL		<5.00
DIISOPROPYL ETHER		61.7
ETHANOL		<20.0
T-BUTYL ALCOHOL		258
TERT-AMYL ALCHOL		81.4
TERT-AMYL METHYL ETHER		6.38
TERT-BUTYL ETHYL ETHER		<1.00
TERT-BUTYL FORMATE		<5.00

12458-MW-PL3	UNITS ug/L	GROUNDWATER 05/29/2015
BENZENE		<1.00
TOLUENE		1.07
ETHYLBENZENE		<1.00
TOTAL XYLENES		5.36
MTBE		<2.00
NAPHTHALENE		4.88
EDB		<0.0204
1,2-DICHLOROETHANE		<1.00
3,3-DIMETHYL-1-BUTANOL		<5.00
DIISOPROPYL ETHER		<1.00
ETHANOL		<20.0
T-BUTYL ALCOHOL		<5.00
TERT-AMYL ALCHOL		<5.00
TERT-AMYL METHYL ETHER		<1.00
TERT-BUTYL ETHYL ETHER		<1.00
TERT-BUTYL FORMATE		<5.00

12458-MW-PL2	UNITS ug/L	GROUNDWATER 05/29/2015
BENZENE		1.45
TOLUENE		2.70
ETHYLBENZENE		1.08
TOTAL XYLENES		10.4
MTBE		20.4
NAPHTHALENE		5.28
EDB		<0.0201
1,2-DICHLOROETHANE		<1.00
3,3-DIMETHYL-1-BUTANOL		<5.00
DIISOPROPYL ETHER		3.96
ETHANOL		<20.0
T-BUTYL ALCOHOL		<5.00
TERT-AMYL ALCHOL		<5.00
TERT-AMYL METHYL ETHER		<1.00
TERT-BUTYL ETHYL ETHER		<1.00
TERT-BUTYL FORMATE		<5.00

12458-KMO-18	UNITS ug/L	GROUNDWATER 05/29/2015
BENZENE		<1.00
TOLUENE		<1.00
ETHYLBENZENE		<1.00
TOTAL XYLENES		<1.00
MTBE		<2.00
NAPHTHALENE		<1.00
EDB		<0.0199
1,2-DICHLOROETHANE		<1.00
3,3-DIMETHYL-1-BUTANOL		<5.00
DIISOPROPYL ETHER		3.55
ETHANOL		<20.0
T-BUTYL ALCOHOL		<5.00
TERT-AMYL ALCHOL		<5.00
TERT-AMYL METHYL ETHER		<1.00
TERT-BUTYL ETHYL ETHER		<1.00
TERT-BUTYL FORMATE		<5.00

12458-MW-18D	UNITS ug/L	GROUNDWATER 05/28/2015
BENZENE		**10.6**
TOLUENE		55.3
ETHYLBENZENE		6.66
TOTAL XYLENES		42
MTBE		<2.00
NAPHTHALENE		20.9
EDB		<0.0203
1,2-DICHLOROETHANE		<1.00
3,3-DIMETHYL-1-BUTANOL		<5.00
DIISOPROPYL ETHER		<1.00
ETHANOL		<20.0
T-BUTYL ALCOHOL		<5.00
TERT-AMYL ALCHOL		<5.00
TERT-AMYL METHYL ETHER		<1.00
TERT-BUTYL ETHYL ETHER		<1.00
TERT-BUTYL FORMATE		<5.00

LEGEND

- ---S--- SEWER LINE
- ---W--- WATER LINE
- —E— ELECTRIC LINE (ABOVEGROUND)
- ---UE--- ELECTRIC LINE (UNDERGROUND)
- —T— TELEPHONE/FIBER OPTIC
- MONITORING WELL (TYPE II)
- MONITORING WELL (TYPE III) TELESCOPING

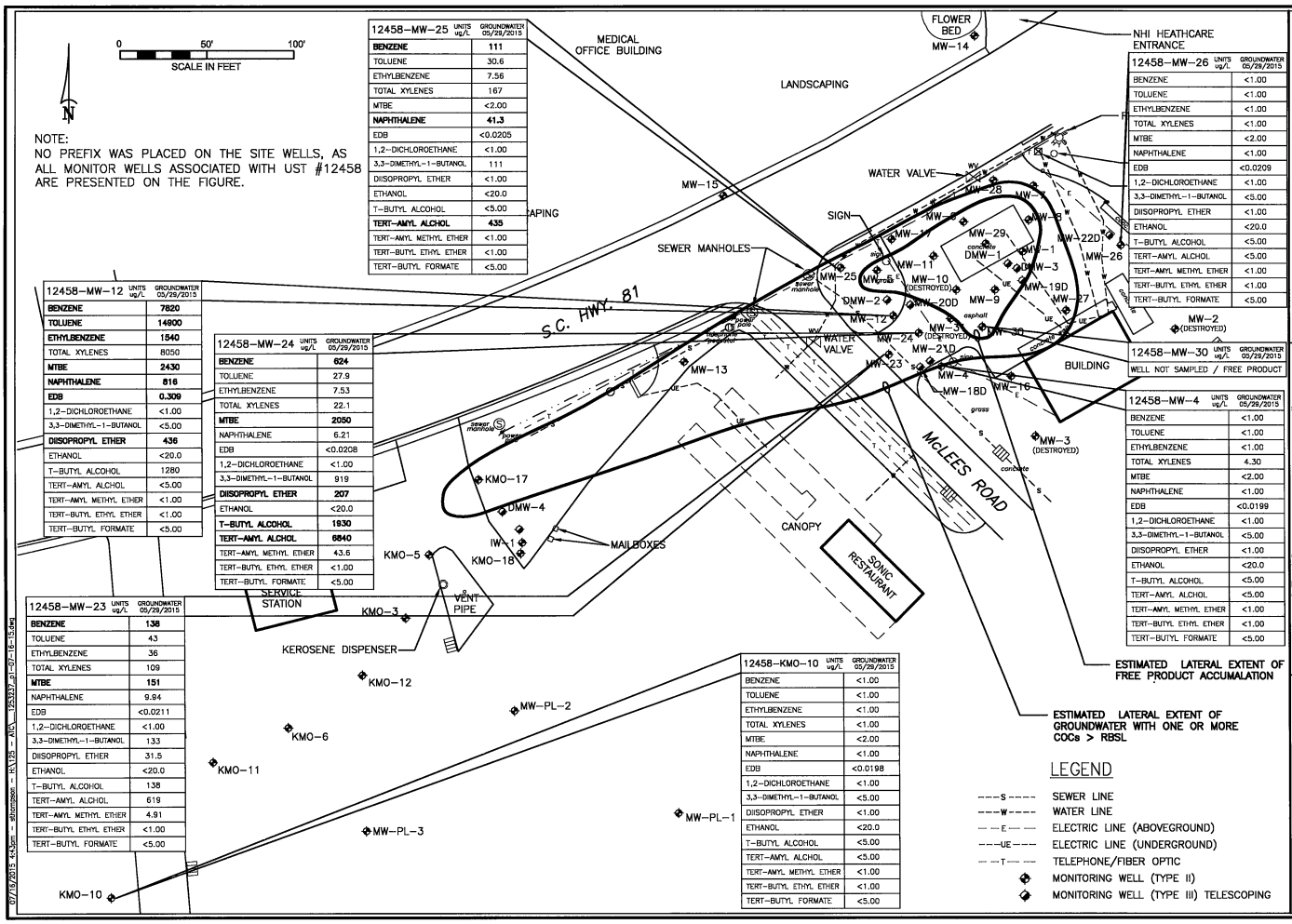
NOTES:
1. BOLD CONCENTRATIONS EQUAL OR EXCEED THE CORREPONDING RBSL

TITLE **FIGURE 4B**
GROUNDWATER COCs CONCENTRATION MAP
UST PERMIT #12458
PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

CAD FILE: 1253237.dwg
TYPE CODE:
PREP. BY: BH
REV. BY:
SCALE: 1" = 50'
DATE: 07-16-2015
PROJECT NO.: DHEC0585

Gardno ATC
Shaping the Future
7499 Parklane Road, Suite 112
Columbia, South Carolina 29223
(803) 735-0003 FAX (803) 929-6065

07/16/2015 4:44pm – ddavenport – H:\1253 – ATC\ – 1253237_21-07-15-13.dwg



NOTE:
NO PREFIX WAS PLACED ON THE SITE WELLS, AS ALL MONITOR WELLS ASSOCIATED WITH UST #12458 ARE PRESENTED ON THE FIGURE.

12458-MW-25	UNITS ug/L	GROUNDWATER 05/29/2015
BENZENE		**111**
TOLUENE		30.6
ETHYLBENZENE		7.56
TOTAL XYLENES		167
MTBE		<2.00
NAPHTHALENE		**41.3**
EDB		<0.0205
1,2-DICHLOROETHANE		<1.00
3,3-DIMETHYL-1-BUTANOL		111
DIISOPROPYL ETHER		<1.00
ETHANOL		<20.0
T-BUTYL ALCOHOL		<5.00
TERT-AMYL ALCHOL		**435**
TERT-AMYL METHYL ETHER		<1.00
TERT-BUTYL ETHYL ETHER		<1.00
TERT-BUTYL FORMATE		<5.00

12458-MW-26	UNITS ug/L	GROUNDWATER 05/29/2015
BENZENE		<1.00
TOLUENE		<1.00
ETHYLBENZENE		<1.00
TOTAL XYLENES		<1.00
MTBE		<2.00
NAPHTHALENE		<1.00
EDB		<0.0209
1,2-DICHLOROETHANE		<1.00
3,3-DIMETHYL-1-BUTANOL		<5.00
DIISOPROPYL ETHER		<1.00
ETHANOL		<20.0
T-BUTYL ALCOHOL		<5.00
TERT-AMYL ALCHOL		<5.00
TERT-AMYL METHYL ETHER		<1.00
TERT-BUTYL ETHYL ETHER		<1.00
TERT-BUTYL FORMATE		<5.00

12458-MW-12	UNITS ug/L	GROUNDWATER 05/29/2015
BENZENE		**7820**
TOLUENE		**14900**
ETHYLBENZENE		**1540**
TOTAL XYLENES		8050
MTBE		**2430**
NAPHTHALENE		**816**
EDB		**0.309**
1,2-DICHLOROETHANE		<1.00
3,3-DIMETHYL-1-BUTANOL		<5.00
DIISOPROPYL ETHER		**436**
ETHANOL		<20.0
T-BUTYL ALCOHOL		1280
TERT-AMYL ALCHOL		<5.00
TERT-AMYL METHYL ETHER		<1.00
TERT-BUTYL ETHYL ETHER		<1.00
TERT-BUTYL FORMATE		<5.00

12458-MW-24	UNITS ug/L	GROUNDWATER 05/29/2015
BENZENE		**624**
TOLUENE		27.9
ETHYLBENZENE		7.53
TOTAL XYLENES		22.1
MTBE		**2050**
NAPHTHALENE		6.21
EDB		<0.0208
1,2-DICHLOROETHANE		<1.00
3,3-DIMETHYL-1-BUTANOL		919
DIISOPROPYL ETHER		**207**
ETHANOL		<20.0
T-BUTYL ALCOHOL		**1930**
TERT-AMYL ALCHOL		**6840**
TERT-AMYL METHYL ETHER		43.6
TERT-BUTYL ETHYL ETHER		<1.00
TERT-BUTYL FORMATE		<5.00

12458-MW-30	UNITS ug/L	GROUNDWATER 05/29/2015
WELL NOT SAMPLED / FREE PRODUCT		

12458-MW-4	UNITS ug/L	GROUNDWATER 05/29/2015
BENZENE		<1.00
TOLUENE		<1.00
ETHYLBENZENE		<1.00
TOTAL XYLENES		4.30
MTBE		<2.00
NAPHTHALENE		<1.00
EDB		<0.0199
1,2-DICHLOROETHANE		<1.00
3,3-DIMETHYL-1-BUTANOL		<5.00
DIISOPROPYL ETHER		<1.00
ETHANOL		<20.0
T-BUTYL ALCOHOL		<5.00
TERT-AMYL ALCHOL		<5.00
TERT-AMYL METHYL ETHER		<1.00
TERT-BUTYL ETHYL ETHER		<1.00
TERT-BUTYL FORMATE		<5.00

12458-MW-23	UNITS ug/L	GROUNDWATER 05/29/2015
BENZENE		**138**
TOLUENE		43
ETHYLBENZENE		36
TOTAL XYLENES		109
MTBE		**151**
NAPHTHALENE		9.94
EDB		<0.0211
1,2-DICHLOROETHANE		<1.00
3,3-DIMETHYL-1-BUTANOL		133
DIISOPROPYL ETHER		31.5
ETHANOL		<20.0
T-BUTYL ALCOHOL		138
TERT-AMYL ALCHOL		619
TERT-AMYL METHYL ETHER		4.91
TERT-BUTYL ETHYL ETHER		<1.00
TERT-BUTYL FORMATE		<5.00

12458-KMO-10	UNITS ug/L	GROUNDWATER 05/29/2015
BENZENE		<1.00
TOLUENE		<1.00
ETHYLBENZENE		<1.00
TOTAL XYLENES		<1.00
MTBE		<2.00
NAPHTHALENE		<1.00
EDB		<0.0198
1,2-DICHLOROETHANE		<1.00
3,3-DIMETHYL-1-BUTANOL		<5.00
DIISOPROPYL ETHER		<1.00
ETHANOL		<20.0
T-BUTYL ALCOHOL		<5.00
TERT-AMYL ALCHOL		<5.00
TERT-AMYL METHYL ETHER		<1.00
TERT-BUTYL ETHYL ETHER		<1.00
TERT-BUTYL FORMATE		<5.00

NOTES:
1. BOLD CONCENTRATIONS EQUAL OR EXCEED THE CORRESPONDING RBSL

Gardno ATC
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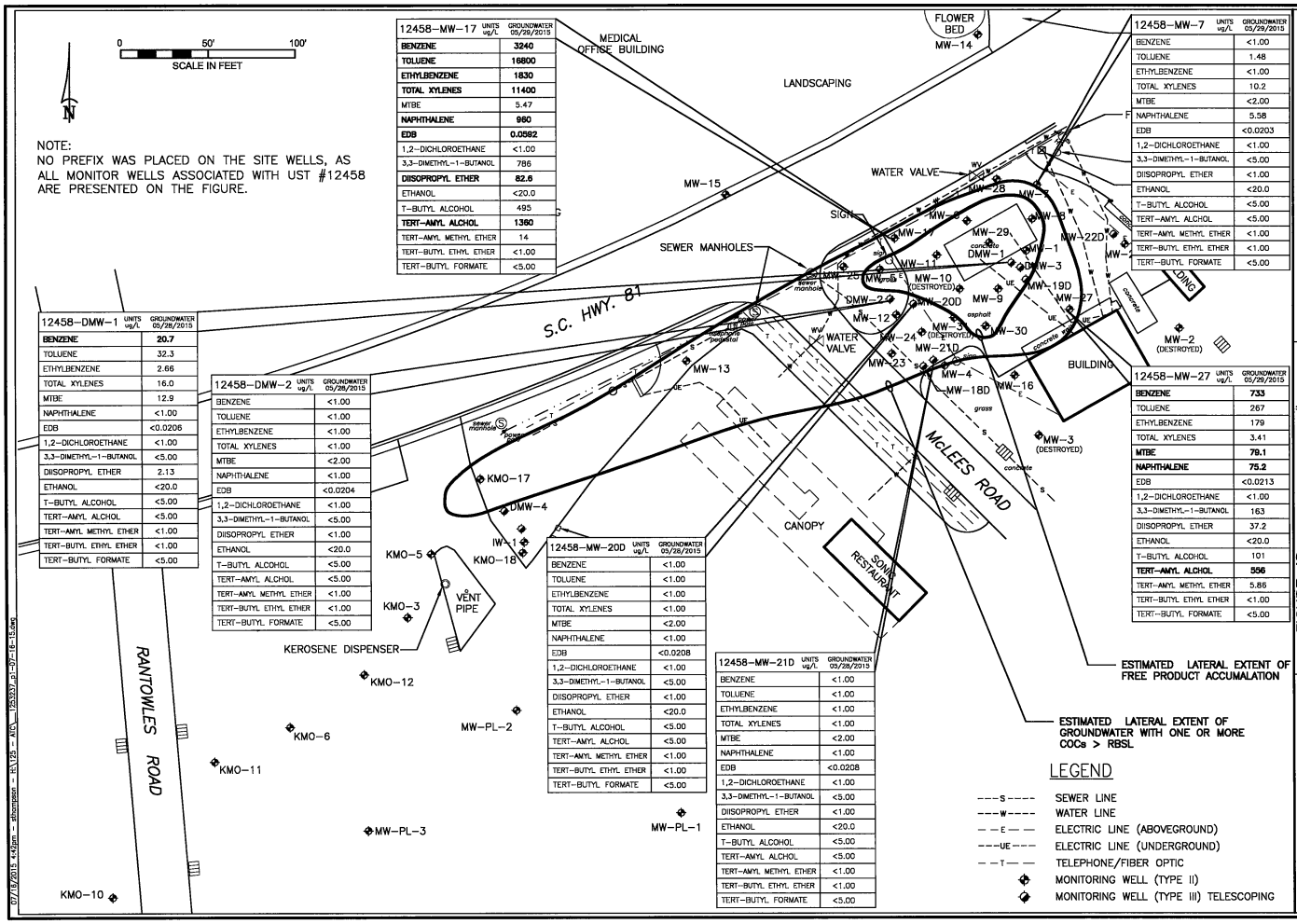
PROJECT NO. DHEC0585
DATE 07-16-2015
SCALE 1" = 50'
REV. BY
PREP. BY BH
TYPE CODE
CAD FILE 1253237.dwg

TITLE **FIGURE 4C** UST PERMIT #12458
GROUNDWATER COCs CONCENTRATION MAP
PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

07/16/2015 4:43pm - dthompson - H:\1253237_dt-07-16-15.dwg



NOTE:
NO PREFIX WAS PLACED ON THE SITE WELLS, AS ALL MONITOR WELLS ASSOCIATED WITH UST #12458 ARE PRESENTED ON THE FIGURE.

12458-MW-17	UNITS ug/L	GROUNDWATER 05/29/2015
BENZENE		**3240**
TOLUENE		**16800**
ETHYLBENZENE		**1830**
TOTAL XYLENES		**11400**
MTBE		5.47
NAPHTHALENE		**980**
EDB		**0.0582**
1,2-DICHLOROETHANE		<1.00
3,3-DIMETHYL-1-BUTANOL		786
DIISOPROPYL ETHER		**82.6**
ETHANOL		<20.0
T-BUTYL ALCOHOL		495
TERT-AMYL ALCHOL		**1360**
TERT-AMYL METHYL ETHER		14
TERT-BUTYL ETHYL ETHER		<1.00
TERT-BUTYL FORMATE		<5.00

12458-MW-7	UNITS ug/L	GROUNDWATER 05/29/2015
BENZENE		<1.00
TOLUENE		1.48
ETHYLBENZENE		<1.00
TOTAL XYLENES		10.2
MTBE		<2.00
NAPHTHALENE		5.58
EDB		<0.0203
1,2-DICHLOROETHANE		<1.00
3,3-DIMETHYL-1-BUTANOL		<5.00
DIISOPROPYL ETHER		<1.00
ETHANOL		<20.0
T-BUTYL ALCOHOL		<5.00
TERT-AMYL ALCHOL		<5.00
TERT-AMYL METHYL ETHER		<1.00
TERT-BUTYL ETHYL ETHER		<1.00
TERT-BUTYL FORMATE		<5.00

12458-DMW-1	UNITS ug/L	GROUNDWATER 05/28/2015
BENZENE		**20.7**
TOLUENE		32.3
ETHYLBENZENE		2.66
TOTAL XYLENES		16.0
MTBE		12.9
NAPHTHALENE		<1.00
EDB		<0.0206
1,2-DICHLOROETHANE		<1.00
3,3-DIMETHYL-1-BUTANOL		<5.00
DIISOPROPYL ETHER		2.13
ETHANOL		<20.0
T-BUTYL ALCOHOL		<5.00
TERT-AMYL ALCHOL		<5.00
TERT-AMYL METHYL ETHER		<1.00
TERT-BUTYL ETHYL ETHER		<1.00
TERT-BUTYL FORMATE		<5.00

12458-DMW-2	UNITS ug/L	GROUNDWATER 05/28/2015
BENZENE		<1.00
TOLUENE		<1.00
ETHYLBENZENE		<1.00
TOTAL XYLENES		<1.00
MTBE		<2.00
NAPHTHALENE		<1.00
EDB		<0.0204
1,2-DICHLOROETHANE		<1.00
3,3-DIMETHYL-1-BUTANOL		<5.00
DIISOPROPYL ETHER		<1.00
ETHANOL		<20.0
T-BUTYL ALCOHOL		<5.00
TERT-AMYL ALCHOL		<5.00
TERT-AMYL METHYL ETHER		<1.00
TERT-BUTYL ETHYL ETHER		<1.00
TERT-BUTYL FORMATE		<5.00

12458-MW-20D	UNITS ug/L	GROUNDWATER 05/28/2015
BENZENE		<1.00
TOLUENE		<1.00
ETHYLBENZENE		<1.00
TOTAL XYLENES		<1.00
MTBE		<2.00
NAPHTHALENE		<1.00
EDB		<0.0208
1,2-DICHLOROETHANE		<1.00
3,3-DIMETHYL-1-BUTANOL		<5.00
DIISOPROPYL ETHER		<1.00
ETHANOL		<20.0
T-BUTYL ALCOHOL		<5.00
TERT-AMYL ALCHOL		<5.00
TERT-AMYL METHYL ETHER		<1.00
TERT-BUTYL ETHYL ETHER		<1.00
TERT-BUTYL FORMATE		<5.00

12458-MW-21D	UNITS ug/L	GROUNDWATER 05/28/2015
BENZENE		<1.00
TOLUENE		<1.00
ETHYLBENZENE		<1.00
TOTAL XYLENES		<1.00
MTBE		<2.00
NAPHTHALENE		<1.00
EDB		<0.0208
1,2-DICHLOROETHANE		<1.00
3,3-DIMETHYL-1-BUTANOL		<5.00
DIISOPROPYL ETHER		<1.00
ETHANOL		<20.0
T-BUTYL ALCOHOL		<5.00
TERT-AMYL ALCHOL		<5.00
TERT-AMYL METHYL ETHER		<1.00
TERT-BUTYL ETHYL ETHER		<1.00
TERT-BUTYL FORMATE		<5.00

12458-MW-27	UNITS ug/L	GROUNDWATER 05/29/2015
BENZENE		**733**
TOLUENE		267
ETHYLBENZENE		179
TOTAL XYLENES		3.41
MTBE		**79.1**
NAPHTHALENE		**75.2**
EDB		<0.0213
1,2-DICHLOROETHANE		<1.00
3,3-DIMETHYL-1-BUTANOL		163
DIISOPROPYL ETHER		37.2
ETHANOL		<20.0
T-BUTYL ALCOHOL		101
TERT-AMYL ALCHOL		**556**
TERT-AMYL METHYL ETHER		5.86
TERT-BUTYL ETHYL ETHER		<1.00
TERT-BUTYL FORMATE		<5.00

NOTES:
1. BOLD CONCENTRATIONS EQUAL OR EXCEED THE CORRESPONDING RBSL

Gardno ATC
Shaping the Future
7496 Parklane Road, Suite 112
Columbia, South Carolina 29223
(803) 735-0003 FAX (803) 929-5085

PROJECT NO. DHEC0585
DATE 07-16-2015
SCALE 1" = 50'
REV. BY
PREP. BY BH
TYPE CODE
CAD FILE 1253237.dwg

TITLE **FIGURE 4D**
GROUNDWATER COCs CONCENTRATION MAP
UST PERMIT #12458
PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

07/16/2015 4:43pm - dthompson - R:\125 - AVA_125323_p1-07-16-15.dwg

APPENDIX A

FIELD DATA INFORMATION SHEETS

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Page

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/29/15
Field Personnel C. HAMILTON, B. BELDING, W. FOGLE
General Weather Conditions
Ambient Air Temperature °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: MW-PL-1

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 13 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 7.16 ft.

Length of Water Column (LWC=TWD-DGW) 5.84 ft.

1 Csg. Volume (LWC*C)= _____ X 0.163 = 0.95 gals.
3 Csg. Volumes = 3 X _____ = 2.85 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 3.0 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	13:15	13:18	13:20	13:22				13:23
pH (s.u.)	6.38	6.36	6.35	6.05				
Specific Cond. (umhos/cm)	94	103	149	154				
Water Temp (°C)	24.64	24.21	23.41	23.40				
Turbidity (")	147	1000+	1000+	1000+				
D.O. Reading	5.73	4.18	3.62	3.90				

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/ 29 /15

Field Personnel C. HAMILTON, B. BELDING, W. FOGLE

General Weather Conditions

Ambient Air Temperature °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____

Date / Time _____ Date / Time _____

Well #: MW-PL-2

Well Diameter (D) 2 inch or _____ feet

conversion factor (C): 3.143*(D/2)^2

for a 2 inch well C= 0.163

for a 4 inch well C= 0.652

Total Well Depth (TWD) 13 ft.

Depth to Free Product (DFP) _____ ft.

Depth to GW (DGW) 6.01 ft.

Length of Water Column (LWC=TWD-DGW) 6.99 ft.

1 Csg. Volume (LWC*C)= _____ X 0.163 = 1.14 gals.

3 Csg. Volumes = 3 X _____ = 3.42 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	13:30	13:33	13:35	13:37				13:38
pH (s.u.)	6.18	6.25	6.25	6.24				
Specific Cond. (umhos/cm)	232	245	245	277				
Water Temp (°C)	23.46	23.92	23.78	23.56				
Turbidity (*)	143	1000+	1000+	1000+				
D.O. Reading	6.15	6.27	4.86	2.65				

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/ 29 /15
Field Personnel C. HAMILTON, B. BELDING, W. FOGLE
General Weather Conditions
Ambient Air Temperature °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: MW-PL-3

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD). 13 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 5.49 ft.

Length of Water Column (LWC=TWD-DGW) 7.51 ft.

1 Csg. Volume (LWC*C)= _____ X 0.163 = 1.22 gals.
3 Csg. Volumes = 3 X _____ = 3.66 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 3.75 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	13:42	13:47	13:49	13:51				13:52
pH (s.u.)	6.19	6.24	6.25	6.16				
Specific Cond. (umhos/cm)	180	182	170	170				
Water Temp (°C)	24.45	23.75	24.21	24.07				
Turbidity (*)	169	1000+	1000+	1000+				
D.O. Reading	2.47	3.17	3.37	3.77				

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/28/15
Field Personnel C. HAMILTON, B. BELDING, W. FOGLE
General Weather Conditions
Ambient Air Temperature °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: MW-1

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 25 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ X 0.163 = _____ gals.
3 Csg. Volumes = 3 X _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temp (°C)								
Turbidity (*)								
D.O. Reading								

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks: PRODUCT / VISUALY CONFIRMED

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/28/15

Field Personnel C. HAMILTON, B. BELDING, W. FOGLE

General Weather Conditions

Ambient Air Temperature °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____

Date / Time _____ Date / Time _____

Well #: MW-2

Well Diameter (D) 2 inch or _____ feet

conversion factor (C): 3.143*(D/2)^2

for a 2 inch well C= 0.163

for a 4 inch well C= 0.652

Total Well Depth (TWD). 20 ft.

Depth to Free Product (DFP) _____ ft.

Depth to GW (DGW) _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ X 0.163 = _____ gals.

3 Csg. Volumes = 3 X _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temp (°C)								
Turbidity (°)								
D.O. Reading								

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks: DESTROYED BY NEW CONSTRUCTION

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/28/15

Field Personnel C. HAMILTON, B. BELDING, W. FOGLE

General Weather Conditions

Ambient Air Temperature °F

Facility Name PANTRY SES Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____

Date / Time _____ Date / Time _____

Well #: MW-3

Well Diameter (D) 2 inch or _____ feet

conversion factor (C): 3.143*(D/2)^2

for a 2 inch well C= 0.163

for a 4 inch well C= 0.652

Total Well Depth (TWD). 15 ft.

Depth to Free Product (DFP) _____ ft.

Depth to GW (DGW) _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ X 0.163 = _____ gals.

3 Csg. Volumes = 3 X _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temp (°C)								
Turbidity (*)								
D.O. Reading								

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks: DESTROYED BY NEW CONSTRUCTION

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/ 29 /15
Field Personnel C. HAMILTON, B. BELDING, W. FOGLE
General Weather Conditions
Ambient Air Temperature °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: MW-L1

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 15 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 8.34 ft.

Length of Water Column (LWC=TWD-DGW) 6.66 ft.

1 Csg. Volume (LWC*C)= 6.66 X 0.163 = 1.09 gals.
3 Csg. Volumes = 3 X 1.09 = 3.27 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 3.5 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	9:55	9:58	10:00	10:02				10:04
pH (s.u.)	6.48	6.48	6.36	6.33				
Specific Cond. (umhos/cm)	94	86	93	94				
Water Temp (°C)	21.33	20.86	20.48	20.43				
Turbidity (*)	86.7	1000+	1000+	1000+				
D.O. Reading	3.84	3.43	3.26	2.97				

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/28/15

Field Personnel C. HAMILTON, B. BELDING, W. FOGLE

General Weather Conditions

Ambient Air Temperature °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____

Date / Time _____ Date / Time _____

Well #: MW-5

Well Diameter (D) 2 inch or _____ feet

conversion factor (C): 3.143*(D/2)^2

for a 2 inch well C= 0.163

for a 4 inch well C= 0.652

Total Well Depth (TWD). 15 ft.

Depth to Free Product (DFP) 10.76 ft.

Depth to GW (DGW) 11.18 ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ X 0.163 = _____ gals.

3 Csg. Volumes = 3 X _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temp (°C)								
Turbidity (*)								
D.O. Reading								

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks: PRODUCT / VISUALY CONFIRMED

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/28/15

Field Personnel C. HAMILTON, B. BELDING, W. FOGLE

General Weather Conditions

Ambient Air Temperature °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____

Date / Time _____ Date / Time _____

Well #: MW-6

Well Diameter (D) 2 inch or _____ feet

conversion factor (C): 3.143*(D/2)^2

for a 2 inch well C= 0.163

for a 4 inch well C= 0.652

Total Well Depth (TWD) 18 ft.

Depth to Free Product (DFP) _____ ft.

Depth to GW (DGW) _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ X 0.163 = _____ gals.

3 Csg. Volumes = 3 X _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temp (°C)								
Turbidity (*)								
D.O. Reading								

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks: PRODUCT / VISUALLY CONFIRMED

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/ 29 / 15
Field Personnel C. HAMILTON, B. BELDING, W. FOGLE
General Weather Conditions
Ambient Air Temperature °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: MW - 7

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 15 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 8.68 ft.

Length of Water Column (LWC=TWD-DGW) 6.32 ft.

1 Csg. Volume (LWC*C)= 6.32 X 0.163 = 1.03 gals.
3 Csg. Volumes = 3 X 1.03 = 3.09 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 3.25 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	14:45	14:47	14:49	14:51				14:52
pH (s.u.)	6.27	6.23	6.18	6.17				
Specific Cond. (umhos/cm)	196	198	194	196				
Water Temp (°C)	23.39	22.67	21.70	21.51				
Turbidity (")	196	270	257	395				
D.O. Reading	5.69	4.15	3.55	6.59				

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/28/15
Field Personnel C. HAMILTON, B. BERDING, W. FOGLE
General Weather Conditions
Ambient Air Temperature °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: MW-8

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 15 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ X 0.163 = _____ gals.
3 Csg. Volumes = 3 X _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temp (°C)								
Turbidity (°)								
D.O. Reading								

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks: PRODUCT / VISUALY CONFIRMED

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/28/15

Field Personnel C. HAMILTON, B. BELDING, W. FOGLE

General Weather Conditions

Ambient Air Temperature °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____

Date / Time _____ Date / Time _____

Well #: MW-9

Well Diameter (D) 2 inch or _____ feet

conversion factor (C): 3.143*(D/2)^2

for a 2 inch well C= 0.163

for a 4 inch well C= 0.652

Total Well Depth (TWD) 17 ft.

Depth to Free Product (DFP) _____ ft.

Depth to GW (DGW) _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ X 0.163 = _____ gals.

3 Csg. Volumes = 3 X _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temp (°C)								
Turbidity (°)								
D.O. Reading								

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks: PRODUCT / VISUALY CONFIRMED

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/28/15

Field Personnel C. HAMILTON, B. BELDING, W. FOGLE

General Weather Conditions

Ambient Air Temperature °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____

Date / Time _____ Date / Time _____

Well #: MW-10

Well Diameter (D) 2 inch or _____ feet

conversion factor (C): 3.143*(D/2)^2

for a 2 inch well C= 0.163

for a 4 inch well C= 0.652

Total Well Depth (TWD). 17 ft.

Depth to Free Product (DFP) _____ ft.

Depth to GW (DGW) _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ X 0.163 = _____ gals.

3 Csg. Volumes = 3 X _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temp (°C)								
Turbidity (*)								
D.O. Reading								

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/28/15

Field Personnel C. HAMILTON, B. BELDING, W. FOGLE

General Weather Conditions

Ambient Air Temperature °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____

Date / Time _____ Date / Time _____

Well #: MW-11

Well Diameter (D) 2 inch or _____ feet

conversion factor (C): 3.143*(D/2)^2

for a 2 inch well C= 0.163

for a 4 inch well C= 0.652

Total Well Depth (TWD). 17 ft.

Depth to Free Product (DFP) _____ ft.

Depth to GW (DGW) _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ X 0.163 = _____ gals.

3 Csg. Volumes = 3 X _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temp (°C)								
Turbidity (*)								
D.O. Reading								

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks: PRODUCT / VISUALY CONFIRMED

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/ 29 /15
Field Personnel C. HAMILTON, B. BELDING, W. FOGLE
General Weather Conditions
Ambient Air Temperature ° F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: MW-12

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 17 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 9.49 ft.

Length of Water Column (LWC=TWD-DGW) 7.51 ft.

1 Csg. Volume (LWC*C)= 7.51 X 0.163 = 1.22 gals.
3 Csg. Volumes = 3 X 1.22 = 3.66 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	14:55	14:57	14:59	15:01				15:02
pH (s.u.)	6.14	6.10	6.10	[illegible]	6.11			
Specific Cond. (umhos/cm)	153	180	229	[illegible]	332			
Water Temp (°C)	21.40	20.75	20.33	[illegible] 20.91				
Turbidity (*)	65.9	910	939	930				
D.O. Reading	2.60	2.35	4.45	4.57				

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/ 29 /15
Field Personnel C. HAMILTON, B. BELDING, W. FOGLE
General Weather Conditions
Ambient Air Temperature °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: MW-13

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD). 13 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 8.12 ft.

Length of Water Column (LWC=TWD-DGW) 4.88 ft.

1 Csg. Volume (LWC*C)= 4.88 X 0.163 = 0.80 gals.
3 Csg. Volumes = 3 X 0.80 = 2.40 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	12:41	12:43	12:45	12:47				12:48
pH (s.u.)	6.35	6.27	6.19	6.26				
Specific Cond. (umhos/cm)	333	348	355	388				
Water Temp (°C)	21.65	20.95	20.69	21.23				
Turbidity (")	490	1000+	1000+	1000+				
D.O. Reading	9.50	4.78	4.19	5.77				

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/ 29 /15

Field Personnel C. HAMILTON, B. BELDING, W. FOGLE

General Weather Conditions

Ambient Air Temperature °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____

Date / Time _____ Date / Time _____

Well #: MW-14

Well Diameter (D) 2 inch or _____ feet

conversion factor (C): 3.143*(D/2)^2

for a 2 inch well C= 0.163

for a 4 inch well C= 0.652

Total Well Depth (TWD) 25 ft.

Depth to Free Product (DFP) _____ ft.

Depth to GW (DGW) 13.19 ft.

Length of Water Column (LWC=TWD-DGW) 11.81 ft.

1 Csg. Volume (LWC*C)= _____ X 0.163 = 1.93 gals.

3 Csg. Volumes = 3 X _____ = 5.79 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	10:35	10:39	10:42	10:45				10:46
pH (s.u.)	6.42	6.36	6.36	6.40				
Specific Cond. (umhos/cm)	199	198	173	168				
Water Temp (°C)	20.79	20.59	20.40	20.68				
Turbidity (*)	111	1000+	1000+	1000+				
D.O. Reading	3.61	4.58	4.55	4.21				

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/ 29 /15
Field Personnel C. HAMILTON, B. BELLING, W. FOGLE
General Weather Conditions
Ambient Air Temperature ° F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: MW-15

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 25 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 10.87 ft.

Length of Water Column (LWC=TWD-DGW) 14.13 ft.

1 Csg. Volume (LWC*C)= 14.13 X 0.163 = 2.30 gals.
3 Csg. Volumes = 3 X 2.30 = 6.90 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	12:13	12:18	12:23	12:27				12:28
pH (s.u.)	6.29	6.14	6.07	6.15				
Specific Cond. (umhos/cm)	107	103	88	88				
Water Temp (°C)	20.22	19.70	19.62	20.31				
Turbidity (°)	19.4	1000+	1000+	1000+				
D.O. Reading	6.89	5.31	5.33	4.93				

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/ 29 /15
Field Personnel C. HAMILTON, B. BELDING, W. FOGLE
General Weather Conditions
Ambient Air Temperature °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: MW-16

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 20 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 9.26 ft.

Length of Water Column (LWC=TWD-DGW) 10.74 ft.

1 Csg. Volume (LWC*C)= 10.74 X 0.163 = 1.75 gals.
3 Csg. Volumes = 3 X 1.75 = 5.25 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 5.25 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	12:11	12:14	12:17	12:20				12:21
pH (s.u.)	6.36	6.32	6.25	6.10				
Specific Cond. (umhos/cm)	283	254	223	139				
Water Temp (°C)	21.78	20.09	19.80	19.69				
Turbidity (*)	41.5	535	689	790				
D.O. Reading	6.30	4.81	4.21	6.89				

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/ 29 /15
Field Personnel C. HAMILTON, B. BELDING, W. FOGLE
General Weather Conditions
Ambient Air Temperature °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: MW-17

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 20 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 11.28 ft.

Length of Water Column (LWC=TWD-DGW) 8.72 ft.

1 Csg. Volume (LWC*C)= _____ X 0.163 = 1.42 gals.
3 Csg. Volumes = 3 X _____ = 4.26 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 4.5 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	10:16	10:18	10:21	10:24				10:25
pH (s.u.)	6.40	6.44	6.42	6.33				
Specific Cond. (umhos/cm)	230	242	245	235				
Water Temp (°C)	20.61	20.58	20.97	20.78				
Turbidity (")	60.7	798	897	691				
D.O. Reading	2.25	2.93	6.34	6.83				

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/ 28 /15
Field Personnel C. HAMILTON, B. BELDING, W. FOGLE
General Weather Conditions
Ambient Air Temperature °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: MW-18D

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD). 80 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 8.59 ft.

Length of Water Column (LWC=TWD-DGW) 71.41 ft.

1 Csg. Volume (LWC*C)= 71.41 X 0.163 = 11.64 gals.
3 Csg. Volumes = 3 X 11.64 = 34.92 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 35 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	15:44	15:54	16:05	16:14				16:15
pH (s.u.)	6.39	6.40	6.40	6.41				6.43
Specific Cond. (umhos/cm)	129	131	133	136				137
Water Temp (°C)	22.48	22.31	22.18	21.77				21.60
Turbidity (*)	37.4	54.2	74.3	99.7				117
D.O. Reading	6.02	5.00	4.93	4.87				4.81

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/ 29 /15

Field Personnel C. HAMILTON, B. BELDING, W. FOGLE

General Weather Conditions

Ambient Air Temperature °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____

Date / Time _____ Date / Time _____

Well #: MW-19D

Well Diameter (D) 2 inch or _____ feet

conversion factor (C): 3.143*(D/2)^2

for a 2 inch well C= 0.163

for a 4 inch well C= 0.652

Total Well Depth (TWD). 48 ft.

Depth to Free Product (DFP) _____ ft.

Depth to GW (DGW) 11.29 ft.

Length of Water Column (LWC=TWD-DGW) 36.71 ft.

1 Csg. Volume (LWC*C)= 36.71 X 0.163 = 5.98 gals.

3 Csg. Volumes = 3 X 5.98 = 17.9 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 18 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	7:51	7:57	8:04	8:10				8:12
pH (s.u.)	6.54	6.53	6.52	6.53				6.53
Specific Cond. (umhos/cm)	140	141	141	141				141
Water Temp (°C)	21.66	21.42	21.03	20.92				20.86
Turbidity (*)	99.5	102	106	111				113
D.O. Reading	8.65	5.32	5.07	4.54				4.19

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/ 28 /15

Field Personnel C. HAMILTON, B. BELDING, W. FOGLE

General Weather Conditions

Ambient Air Temperature °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____

Date / Time _____ Date / Time _____

Well #: MW-20D

Well Diameter (D) 2 inch or _____ feet

conversion factor (C): 3.143*(D/2)^2

for a 2 inch well C= 0.163

for a 4 inch well C= 0.652

Total Well Depth (TWD). 47 ft.

Depth to Free Product (DFP) _____ ft.

Depth to GW (DGW) 9.97 ft.

Length of Water Column (LWC=TWD-DGW) 37.03 ft.

1 Csg. Volume (LWC*C)= 37.03 X 0.163 = 6.04 gals.

3 Csg. Volumes = 3 X 6.04 = 18.12 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 18.25 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	17:00	17:05	17:11	17:16				17:18
pH (s.u.)	6.57	6.55	6.54	6.55				6.53
Specific Cond. (umhos/cm)	141	142	141	141				142
Water Temp (°C)	23.68	23.61	23.59	23.48				23.57
Turbidity (*)	58.6	77.7	92.1	107				109
D.O. Reading	5.66	5.31	5.02	4.79				4.77

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/ 28 /15

Field Personnel C. HAMILTON, B. BELDING, W. FOGLE

General Weather Conditions

Ambient Air Temperature °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____

Date / Time _____ Date / Time _____

Well #: MW-21 D

Well Diameter (D) 2 Inch or _____ feet

conversion factor (C): 3.143*(D/2)^2

for a 2 inch well C= 0.163

for a 4 inch well C= 0.652

Total Well Depth (TWD). 47 ft.

Depth to Free Product (DFP) _____ ft.

Depth to GW (DGW) 7.14 ft.

Length of Water Column (LWC=TWD-DGW) 39.86 ft.

1 Csg. Volume (LWC*C)= 39.86 X 0.163 = 6.50 gals.

3 Csg. Volumes = 3 X 6.50 = 19.5 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 19.5 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	16:30	16:36	16:43	16:47				16:49
pH (s.u.)	6.46	6.52	6.48	6.49				6.49
Specific Cond. (umhos/cm)	153	151	153	153				153
Water Temp (°C)	22.87	22.38	21.74	21.21				21.24
Turbidity (*)	14.3	38.2	41.1	62.9				62.6
D.O. Reading	8.74	7.01	6.64	5.31				5.27

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/ 29 /15
Field Personnel C. HAMILTON, B. BELDING, W. FOGLE
General Weather Conditions
Ambient Air Temperature °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: MW-22D

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 47 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 11.18 ft.

Length of Water Column (LWC=TWD-DGW) 35.82 ft.

1 Csg. Volume (LWC*C)= 35.82 X 0.163 = 5.84 gals.
3 Csg. Volumes = 3 X 5.84 = 17.52 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 17.75 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	8:19	8:25	8:30	8:38				8:40
pH (s.u.)	6.28	6.30	6.31	6.33				6.33
Specific Cond. (umhos/cm)	103	106	106	109				111
Water Temp (°C)	20.66	20.70	20.71	20.73				20.76
Turbidity (*)	1000+	1000+	1000+	1000+				1000+
D.O. Reading	6.25	6.22	5.84	5.86				5.87

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/ 29 /15

Field Personnel C. HAMILTON, B. BELDING, W. FOGLE

General Weather Conditions

Ambient Air Temperature °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	X	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____

Date / Time _____ Date / Time _____

Well #: MW-23

Well Diameter (D) 2 inch or _____ feet

conversion factor (C): 3.143*(D/2)^2

for a 2 inch well C= 0.163

for a 4 inch well C= 0.652

Total Well Depth (TWD) 18 ft.

Depth to Free Product (DFP) _____ ft.

Depth to GW (DGW) 7.38 ft.

Length of Water Column (LWC=TWD-DGW) 10.62 ft.

1 Csg. Volume (LWC*C)= _____ X 0.163 = 1.73 gals.

3 Csg. Volumes = 3 X _____ = 5.19 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	10:20	10:24	10:27	10:32				10:33
pH (s.u.)	6.44	6.45	6.42	6.41				
Specific Cond. (umhos/cm)	356	434	417	413				
Water Temp (°C)	21.75	20.82	20.69	20.89				
Turbidity (°)	146	419	566	331				
D.O. Reading	2.55	3.00	3.02	2.25				

circle if well Bailed Dry Equilibrated (10%) Duplicate taken DUP-2

Remarks:

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/29/15
Field Personnel C. HAMILTON, B. BELDING, W. FOGLE
General Weather Conditions
Ambient Air Temperature °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: MW-24

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD). 20 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 8.13 ft.

Length of Water Column (LWC=TWD-DGW) 11.87 ft.

1 Csg. Volume (LWC*C)= _____ X 0.163 = 1.93 gals.
3 Csg. Volumes = 3 X _____ = 5.79 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 6.0 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	10:54	10:59	11:01	11:04				11:05
pH (s.u.)	6.50	6.49	6.47	6.37				
Specific Cond. (umhos/cm)	258	269	279	211				
Water Temp (°C)	21.72	21.57	21.14	21.09				
Turbidity (")	485	477	285	214				
D.O. Reading	3.39	3.28	3.18	2.30				

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/29/15
Field Personnel C. HAMILTON, B. BELDING, W. FOGLE
General Weather Conditions
Ambient Air Temperature °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: MW-25

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 20 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 11.14 ft.

Length of Water Column (LWC=TWD-DGW) 8.86 ft.

1 Csg. Volume (LWC*C)= _____ X 0.163 = 1.44 gals.
3 Csg. Volumes = 3 X _____ = 4.32 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	9:59	10:02	10:05	10:08				10:10
pH (s.u.)	6.51	6.48	6.30	6.38				
Specific Cond. (umhos/cm)	185	172	169	171				
Water Temp (°C)	20.68	20.36	20.83	20.63				
Turbidity (°)	250	940	445	526				
D.O. Reading	3.20	3.57	2.75	3.09				

circle if well Bailed Dry Equilibrated (10%) Duplicate taken DUP-1

Remarks:

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/ 29 /15
Field Personnel C. HAMILTON, B. BELDING, W. FOGLE
General Weather Conditions
Ambient Air Temperature °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: MW-26

Well Diameter (D) 2 Inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD). 20 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 7.39 ft.

Length of Water Column (LWC=TWD-DGW) 12.61 ft.

1 Csg. Volume (LWC*C)= 12.61 X 0.163 = 2.06 gals.
3 Csg. Volumes = 3 X 2.06 = 6.18 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 6.25 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	8:49	8:52	8:55	8:58				9:00
pH (s.u.)	6.57	6.57	6.43	6.42				
Specific Cond. (umhos/cm)	208	161	158	157				
Water Temp (°C)	22.75	21.33	20.82	20.42				
Turbidity (°)	201	1000+	1000+	1000+				
D.O. Reading	6.41	6.32	5.69	5.63				

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/ 29 /15
Field Personnel C. HAMILTON, B. BELDING, W. FOGLE
General Weather Conditions
Ambient Air Temperature °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: MW-27

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD). 21 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 9.53 ft.

Length of Water Column (LWC=TWD-DGW) 11.47 ft.

1 Csg. Volume (LWC*C)= _____ X 0.163 = 1.87 gals.
3 Csg. Volumes = 3 X _____ = 5.61 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 5.75 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	9:10	9:14	9:18	9:21				9:22
pH (s.u.)	6.44	6.49	6.43	6.39				
Specific Cond. (umhos/cm)	170	182	242	242				
Water Temp (°C)	20.95	20.09	19.94	20.21				
Turbidity (°)	413	712	678	483				
D.O. Reading	4.56	4.07	3.93	3.73				

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/ 29 /15
Field Personnel C. HAMILTON, B. BELDING, W. FOGLE
General Weather Conditions
Ambient Air Temperature °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: MW-2S

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD). 20 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 9.68 ft.

Length of Water Column (LWC=TWD-DGW) 10.32 ft.

1 Csg. Volume (LWC*C)= _____ X 0.163 = 1.68 gals.
3 Csg. Volumes = 3 X _____ = 5.04 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 5.25 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	9:32	9:35	9:38	9:41				9:42
pH (s.u.)	6.44	6.49	6.50	6.52				
Specific Cond. (umhos/cm)	272	242	236	234				
Water Temp (°C)	20.99	21.45	20.92	20.86				
Turbidity (")	82.6	1000+	826	663				
D.O. Reading	3.36	3.17	3.48	3.05				

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/ 29 /15

Field Personnel C. HAMILTON, B. BELDING, W. FOGLE

General Weather Conditions

Ambient Air Temperature °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____

Date / Time _____ Date / Time _____

Well #: MW-30

Well Diameter (D) 2 inch or _____ feet

conversion factor (C): 3.143*(D/2)^2

for a 2 inch well C= 0.163

for a 4 inch well C= 0.652

Total Well Depth (TWD) 20 ft.

Depth to Free Product (DFP) _____ ft.

Depth to GW (DGW) _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ X 0.163 = _____ gals.

3 Csg. Volumes = 3 X _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temp (°C)								
Turbidity (*)								
D.O. Reading								

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks: PRODUCT / VISUALY CONFIRMED

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/ 28 /15
Field Personnel C. HAMILTON, B. BELDING, W. FOGLE
General Weather Conditions
Ambient Air Temperature °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: MW-31

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652
Total Well Depth (TWD) 20 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) _____ ft.

Length of Water Column (LWC=TWD-DGW) _____ ft.

1 Csg. Volume (LWC*C)= _____ X 0.163 = _____ gals.
3 Csg. Volumes = 3 X _____ = _____ gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)								
pH (s.u.)								
Specific Cond. (umhos/cm)								
Water Temp (°C)								
Turbidity (*)								
D.O. Reading								

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/[redacted]28/15

Field Personnel C. HAMILTON, B. BELDING, W. FOGLE

General Weather Conditions

Ambient Air Temperature °F

Facility Name PANTRY SES Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____

Date / Time _____ Date / Time _____

Well #: DMW-1

Well Diameter (D) 2 inch or _____ feet

conversion factor (C): 3.143*(D/2)^2

for a 2 inch well C= 0.163

for a 4 inch well C= 0.652

Total Well Depth (TWD). 78 ft.

Depth to Free Product (DFP) _____ ft.

Depth to GW (DGW) 10.59 ft.

Length of Water Column (LWC=TWD-DGW) 67.41 ft.

1 Csg. Volume (LWC*C)= 67.41 X 0.163 = 10.99 gals.

3 Csg. Volumes = 3 X 10.99 = 32.97 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 12.75 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	14:10	14:23						14:29
pH (s.u.)								6.50
Specific Cond. (umhos/cm)								1160
Water Temp (°C)								20.89
Turbidity (*)								126
D.O. Reading								5.01

circle if well (Bailed Dry) Equilibrated (10%) Duplicate taken

Remarks: BAILED DRY AFTER 1ST VOL.

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/28/15
Field Personnel C. HAMILTON, B. BELDING, W. FOGLE
General Weather Conditions
Ambient Air Temperature °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: DMW-2

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 80 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 16.08 ft.

Length of Water Column (LWC=TWD-DGW) 63.92 ft.

1 Csg. Volume (LWC*C)= 63.92 X 0.163 = 10.42 gals.
3 Csg. Volumes = 3 X 10.42 = 31.26 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 14.75 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	12:26							12:57
pH (s.u.)	6.41							6.47
Specific Cond. (umhos/cm)	118							121
Water Temp (°C)	23.64							21.35
Turbidity (*)	68.2							649
D.O. Reading	3.32							4.26

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/ 28 /15
Field Personnel C. HAMILTON, B. BELDING, W. FOGLE
General Weather Conditions
Ambient Air Temperature °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: DMW-3

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD). 112 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 11.28 ft.

Length of Water Column (LWC=TWD-DGW) 100.72 ft.

1 Csg. Volume (LWC*C)= 100.72 X 0.163 = 16.4 gals.
3 Csg. Volumes = 3 X 16.4 = 49.2 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 25.25 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	11:20	11:41	[redacted]	[redacted]				12:14
pH (s.u.)	6.54	6.49						6.46
Specific Cond. (umhos/cm)	431	435						438
Water Temp (°C)	20.22	19.44						19.87
Turbidity (")	13.3	31.8						41.8
D.O. Reading	6.66	6.14						6.01

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/ 29 /15
Field Personnel C. HAMILTON, B. BELDING, W. FOGLE
General Weather Conditions
Ambient Air Temperature °F

Facility Name PANTRY SES Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: KMO-3

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD). 14 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 6.46 ft.

Length of Water Column (LWC=TWD-DGW) 7.54 ft.

1 Csg. Volume (LWC*C)= _____ X 0.163 = 1.23 gals.
3 Csg. Volumes = 3 X _____ = 3.69 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	13:37	13:41	13:43	13:45				13:46
pH (s.u.)	6.28	6.25	6.20	6.19				
Specific Cond. (umhos/cm)	297	316	303	314				
Water Temp (°C)	23.43	22.77	22.58	21.60				
Turbidity (°)	1000+	1000+	1000+	1000+				
D.O. Reading	2.85	3.38	2.33	3.33				

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/ 29 /15
Field Personnel C. HAMILTON, B. BELDING, W. FOGLE
General Weather Conditions
Ambient Air Temperature °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: KMO - 5

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD). 14 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 6.47 ft.

Length of Water Column (LWC=TWD-DGW) 7.53 ft.

1 Csg. Volume (LWC*C)= _____ X 0.163 = 1.23 gals.
3 Csg. Volumes = 3 X _____ = 3.69 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 3.75 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	13:17	13:19	13:21	13:23				13:24
pH (s.u.)	6.38	6.31	6.28	6.06	6.26			
Specific Cond. (umhos/cm)	207	243	277	156	300			
Water Temp (°C)	23.22	22.09	21.59	23.29	21.48			
Turbidity (*)	326	1000+	1000+	1000+	1000+			
D.O. Reading	4.64	3.48	3.16	3.94	2.86			

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/ 29 /15
Field Personnel C. HAMILTON, B. BELDING, W. FOGLE
General Weather Conditions
Ambient Air Temperature °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: KMO-6

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 15 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 6.56 ft.

Length of Water Column (LWC=TWD-DGW) 8.44 ft.

1 Csg. Volume (LWC*C)= _____ X 0.163 = 1.38 gals.
3 Csg. Volumes = 3 X _____ = 4.14 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 4.25 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	14:06	14:08	14:11	14:14				14:15
pH (s.u.)	6.15	6.17	6.23	6.13				
Specific Cond. (umhos/cm)	276	283	292	300				
Water Temp (°C)	22.91	22.38	21.95	22.01				
Turbidity (*)	276	1000+	1000+	1000+				
D.O. Reading	4.21	2.80	2.90	2.46				

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/ 29 /15
Field Personnel C. HAMILTON, B. BELDING, W. FOGLE
General Weather Conditions
Ambient Air Temperature °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: KMO-10

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 15 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 7.00 ft.

Length of Water Column (LWC=TWD-DGW) 8.00 ft.

1 Csg. Volume (LWC*C)= 8.00 X 0.163 = 1.30 gals.
3 Csg. Volumes = 3 X 1.30 = 3.9 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 4 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	14:29	14:32	14:35	14:37				14:38
pH (s.u.)	6.12	6.23	6.28	6.26				
Specific Cond. (umhos/cm)	136	137	139	138				
Water Temp (°C)	23.03	23.83	24.05	24.31				
Turbidity (°)	837	1000+	838	937				
D.O. Reading	2.61	3.09	3.80	3.80				

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/29/15

Field Personnel C. HAMILTON, B. BELDING, W. FOGLE

General Weather Conditions

Ambient Air Temperature °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	X	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____

Date / Time _____ Date / Time _____

Well #: K170 - 11

Well Diameter (D) 2 inch or _____ feet

conversion factor (C): 3.143*(D/2)^2

for a 2 inch well C= 0.163

for a 4 inch well C= 0.652

Total Well Depth (TWD). 12 ft.

Depth to Free Product (DFP) _____ ft.

Depth to GW (DGW) 6.14 ft.

Length of Water Column (LWC=TWD-DGW) 5.86 ft.

1 Csg. Volume (LWC*C)= _____ X 0.163 = 0.96 gals.

3 Csg. Volumes = 3 X _____ = 2.88 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 3 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	14:16	14:18	14:20	14:22				14:23
pH (s.u.)	6.07	6.18	6.13	6.22				
Specific Cond. (umhos/cm)	124	114	105	98				
Water Temp (°C)	20.98	20.42	19.89	19.88				
Turbidity (*)	408	1000+	1000+	1000+				
D.O. Reading	1.99	2.79	3.03	3.31				

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/29/15

Field Personnel C. HAMILTON, B. BELDING, W. FOGLE

General Weather Conditions

Ambient Air Temperature °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	X	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____

Date / Time _____ Date / Time _____

Well #: KMO-1Z

Well Diameter (D) 2 inch or _____ feet

conversion factor (C): 3.143*(D/2)^2

for a 2 inch well C= 0.163

for a 4 inch well C= 0.652

Total Well Depth (TWD) 15 ft.

Depth to Free Product (DFP) _____ ft.

Depth to GW (DGW) 5.27 ft.

Length of Water Column (LWC=TWD-DGW) 9.73 ft.

1 Csg. Volume (LWC*C)= _____ X 0.163 = 1.59 gals.

3 Csg. Volumes = 3 X _____ = 4.77 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling 5 gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	13:56	14:00	14:03	14:06				14:07
pH (s.u.)	6.24	6.31	6.22	6.12				
Specific Cond. (umhos/cm)	327	372	374	378				
Water Temp (°C)	25.06	23.44	22.56	22.12				
Turbidity (")	189	1000+	1000+	1000+				
D.O. Reading	2.05	2.41	2.26	1.56				

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/ 29 /15

Field Personnel C. HAMILTON, B. BELDING, W. FOGLE

General Weather Conditions

Ambient Air Temperature °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____

Date / Time _____ Date / Time _____

Well #: KM0-17

Well Diameter (D) 2 inch or _____ feet

conversion factor (C): 3.143*(D/2)^2

for a 2 inch well C= 0.163

for a 4 inch well C= 0.652

Total Well Depth (TWD). 15 ft.

Depth to Free Product (DFP) _____ ft.

Depth to GW (DGW) 7.98 ft.

Length of Water Column (LWC=TWD-DGW) 7.02 ft.

1 Csg. Volume (LWC*C)= _____ X 0.163 = 1.14 gals.

3 Csg. Volumes = 3 X _____ = 3.42 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	12:47	12:50	12:52	12:55				12:56
pH (s.u.)	6.28	6.13	6.27	6.16				
Specific Cond. (umhos/cm)	218	227	215	207				
Water Temp (°C)	20.53	20.89	20.69	21.03				
Turbidity (")	83.3	1000+	1000+	1000+				
D.O. Reading	3.61	2.59	2.78	2.51				

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

Bureau of Underground Storage Tank Management

Field Data Information Sheet for Ground Water Sampling

Date (mm/dd/yy) 05/29/15
Field Personnel C. HAMILTON, B. BELOING, W. FOGLE
General Weather Conditions
Ambient Air Temperature °F

Facility Name PANTRY 585 Site ID # 12458

Quality Assurance:

pH Meter		Conductivity Meter	
serial no.	11e100177	serial no.	11e100177
pH = 4.0	x	Standard	4.49
pH = 7.0		Standard	
pH = 10.0		Standard	

Chain of Custody

Relinquished by _____ Received by _____
Date / Time _____ Date / Time _____

Well #: KMO-18

Well Diameter (D) 2 inch or _____ feet
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C= 0.163
for a 4 inch well C= 0.652

Total Well Depth (TWD) 15 ft.
Depth to Free Product (DFP) _____ ft.
Depth to GW (DGW) 6.74 ft.

Length of Water Column (LWC=TWD-DGW) 8.26 ft.

1 Csg. Volume (LWC*C)= _____ X 0.163 = 1.35 gals.
3 Csg. Volumes = 3 X _____ = 4.05 gals. (Std. Purge Volume)

Total Volume of Water Purged Before Sampling _____ gals.

circle if well was Destroyed Dry Inaccessable Not located Not Purged

	Initial	1st vol.	2nd Vol.	3rd vol.	4th vol.	5th vol.	Post	Sampling
Volume Purged (gallons)								
Time (military)	12:53	12:57	13:00	13:03				13:04
pH (s.u.)	6.20	6.20	6.25	6.30				
Specific Cond. (umhos/cm)	128	155	155	153				
Water Temp (°C)	22.55	21.28	21.59	21.92				
Turbidity (°)	490	220	1000+	684				
D.O. Reading	3.20	2.69	2.68	2.28				

circle if well Bailed Dry Equilibrated (10%) Duplicate taken

Remarks:

APPENDIX B

LABORATORY ANALYTICAL RESULTS

Analytical Report 508789

for

Cardno-ATC

Project Manager: Jesse Keeffe

Pantry 585

UST#12458

11-JUN-15

Collected By: Client

XENCO Laboratories
Florida Testing Services, LLC

6017 Financial Dr., Norcross, GA 30071
Ph:(770) 449-8800 Fax:(770) 449-5477

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-14-18), Arizona (AZ0765), Florida (E871002), Louisiana (03054)
Oklahoma (9218)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135)
Texas (T104704477), Louisiana (04176), USDA (P330-07-00105)

Xenco-Lakeland: Florida (E84098)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)

XENCO Laboratories
Florida Testing Services, LLC

11-JUN-15

Project Manager: **Jesse Keeffe**
Cardno-ATC
7499 Parklane Road
Suite 112
Columbia, SC 29223

Reference: XENCO Report No(s): **508789**
Pantry 585
Project Address: SC

Jesse Keeffe:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 508789. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 508789 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

J. Derek Rounsley
Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America

XENCO Laboratories
Florida Testing Services, LLC

Sample Cross Reference 508789

Cardno-ATC, Columbia, SC

Pantry 585

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
12458 MW-PL-1	W	05-29-15 13:23	13 ft	508789-001
12458 MW-PL-2	W	05-29-15 13:38	13 ft	508789-002
12458 MW-PL-3	W	05-29-15 13:52	13 ft	508789-003
12458 MW-4	W	05-29-15 10:04	15 ft	508789-004
12458 MW-7	W	05-29-15 14:52	15 ft	508789-005
12458 MW-12	W	05-29-15 15:02	17 ft	508789-006
12458 MW-13	W	05-29-15 12:48	13 ft	508789-007
12458 MW-14	W	05-29-15 10:46	25 ft	508789-008
12458 MW-15	W	05-29-15 12:28	25 ft	508789-009
12458 MW-16	W	05-29-15 12:21	20 ft	508789-010
12458 MW-17	W	05-29-15 10:25	20 ft	508789-011
12458 MW-18D	W	05-29-15 16:15	80 ft	508789-012
12458 MW-19D	W	05-29-15 08:12	48 ft	508789-013
12458 MW-20D	W	05-29-15 17:18	47 ft	508789-014
12458 MW-21D	W	05-29-15 16:49	47 ft	508789-015
12458 MW-22D	W	05-29-15 08:40	47 ft	508789-016
12458 MW-23	W	05-29-15 10:33	18 ft	508789-017
12458 MW-24	W	05-29-15 11:05	20 ft	508789-018
12458 MW-25	W	05-29-15 10:10	20 ft	508789-019
12458 MW-26	W	05-29-15 09:00	20 ft	508789-020
12458 MW-27	W	05-29-15 09:22	21 ft	508789-021
12458 MW-28	W	05-29-15 09:42	20 ft	508789-022
12458 DMW-1	W	05-29-15 14:29	78 ft	508789-023
12458 DMW-2	W	05-29-15 12:57	80 ft	508789-024
12458 DMW-3	W	05-29-15 12:14	112 ft	508789-025
12458 KMO-3	W	05-29-15 13:46	14 ft	508789-026
12458 KMO-5	W	05-29-15 13:24	14 ft	508789-027
12458 KMO-6	W	05-29-15 14:15	15 ft	508789-028
12458 KMO-10	W	05-29-15 14:38	15 ft	508789-029
12458 KMO-11	W	05-29-15 14:23	12 ft	508789-030
12458 KMO-12	W	05-29-15 14:07	15 ft	508789-031
12458 KMO-17	W	05-29-15 12:56	15 ft	508789-032
12458 KMO-18	W	05-29-15 13:04	15 ft	508789-033
DUP-1	W	05-29-15 10:13	18 ft	508789-034
DUP-2	W	05-29-15 10:36	20 ft	508789-035
Field Blank-1	W	05-29-15 14:16		508789-036
Field Blank-2	W	05-29-15 14:09		508789-037
Trip Blank	W	05-29-15 08:00		508789-038

Version: 1.%

CASE NARRATIVE

Client Name: Cardno-ATC
Project Name: Pantry 585

Project ID: *UST#12458*
Work Order Number(s): *508789*

Report Date: *11-JUN-15*
Date Received: *06/02/2015*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:
Batch: LBA-969783 BTEX & Oxygenates by SW-846 8260B
Lab Sample ID 508789-017 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 508789-017, -018, -019, -020, -021, -022, -023, -024, -025, -026, -027, -028, -029, -030, -031, -032, -033, -034, -037, -038.
The Laboratory Control Sample for Toluene, Benzene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit **SDL** Sample Detection Limit **LOD** Limit of Detection

PQL Practical Quantitation Limit **MQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

XENCO Laboratories
Florida Testing Services, LLC

Certificate of Analytical Results 508789

Cardno-ATC, Columbia, SC

Pantry 585

Sample Id: 12458 MW-PL-1 | Matrix: Ground Water | Date Received:06.02.15 09.30
Lab Sample Id: 508789-001 | Date Collected: 05.29.15 13.23 | Sample Depth: 13 ft

Analytical Method: EDB by EPA 8011 | Prep Method: SW8011P
Tech: BRO | % Moisture:
Analyst: CLAR | Date Prep: 06.03.15 09.30
Seq Number: 969441

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	U	0.0203	0.00610	ug/L	06.03.15 23.37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	60-140	06.03.15 23.37	

Analytical Method: BTEX & Oxygenates by SW-846 8260B | Prep Method: SW5030B
Tech: MWE | % Moisture:
Analyst: ZHO | Date Prep: 06.05.15 10.34
Seq Number: 969728

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	U	1.00	0.160	ug/L	06.05.15 15.11	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	06.05.15 15.11	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	06.05.15 15.11	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	06.05.15 15.11	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	06.05.15 15.11	U	1
Xylenes, Total	1330-20-7	U	1.00	0.200	ug/L	06.05.15 15.11	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	06.05.15 15.11	U	1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	06.05.15 15.11	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.05.15 15.11	U	1
Ethyl tert-butyl alcohol	590-36-3	U	5.00	1.10	ug/L	06.05.15 15.11	U	1
Diisopropyl ether	108-20-3	U	1.00	0.0800	ug/L	06.05.15 15.11	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.05.15 15.11	U	1
tert-Butyl alcohol	75-65-0	U	5.00	1.00	ug/L	06.05.15 15.11	U	1
tert-Amyl alcohol	75-85-4	U	5.00	1.10	ug/L	06.05.15 15.11	U	1
tert-Amyl methyl ether	994-05-8	U	1.00	0.300	ug/L	06.05.15 15.11	U	1
Ethyl tert-butyl ether	637-92-3	U	1.00	0.300	ug/L	06.05.15 15.11	U	1
tert-Butyl formate	762-75-4	U	5.00	1.00	ug/L	06.05.15 15.11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	110	%	53-159	06.05.15 15.11	
4-Bromofluorobenzene	460-00-4	96	%	30-186	06.05.15 15.11	
Toluene-D8	2037-26-5	103	%	70-130	06.05.15 15.11	

XENCO Laboratories
Florida Testing Services, LLC

Certificate of Analytical Results 508789

Cardno-ATC, Columbia, SC

Pantry 585

Sample Id: **12458 MW-PL-2** Matrix: Ground Water Date Received:06.02.15 09.30
Lab Sample Id: 508789-002 Date Collected: 05.29.15 13.38 Sample Depth: 13 ft

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: BRO % Moisture:
Analyst: CLAR Date Prep: 06.03.15 09.30
Seq Number: 969441

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	U	0.0201	0.00604	ug/L	06.04.15 00.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	60-140	06.04.15 00.01	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: ZHO Date Prep: 06.05.15 10.34
Seq Number: 969728

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**1.45**	1.00	0.160	ug/L	06.05.15 17.54		1
Toluene	108-88-3	**2.70**	1.00	0.140	ug/L	06.05.15 17.54		1
Ethylbenzene	100-41-4	**1.08**	1.00	0.190	ug/L	06.05.15 17.54		1
m,p-Xylenes	179601-23-1	**6.44**	2 00	0.510	ug/L	06 05.15 17.54		1
o-Xylene	95-47-6	**3.95**	1.00	0.200	ug/L	06.05.15 17.54		1
Xylenes, Total	1330-20-7	**10.4**	1.00	0.200	ug/L	06.05.15 17.54		1
Methyl tert-butyl ether	1634-04-4	**20.4**	2.00	0.180	ug/L	06.05.15 17.54		1
Naphthalene	91-20-3	**5.28**	1.00	0.220	ug/L	06.05.15 17.54		1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.05.15 17.54	U	1
Ethyl tert-butyl alcohol	590-36-3	U	5.00	1.10	ug/L	06.05.15 17.54	U	1
Diisopropyl ether	108-20-3	**3.96**	1.00	0.0800	ug/L	06.05.15 17.54		1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.05.15 17.54	U	1
tert-Butyl alcohol	75-65-0	U	5.00	1.00	ug/L	06.05.15 17.54	U	1
tert-Amyl alcohol	75-85-4	U	5.00	1.10	ug/L	06.05.15 17.54	U	1
tert-Amyl methyl ether	994-05-8	U	1.00	0.300	ug/L	06.05.15 17.54	U	1
Ethyl tert-butyl ether	637-92-3	U	1.00	0.300	ug/L	06.05.15 17.54	U	1
tert-Butyl formate	762-75-4	U	5.00	1.00	ug/L	06.05.15 17.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	106	%	53-159	06.05.15 17.54	
4-Bromofluorobenzene	460-00-4	97	%	30-186	06.05.15 17.54	
Toluene-D8	2037-26-5	102	%	70-130	06.05.15 17.54	

XENCO Laboratories
Florida Testing Services, LLC

Certificate of Analytical Results 508789

Cardno-ATC, Columbia, SC

Pantry 585

Sample Id: **12458 MW-PL-3** Matrix: Ground Water Date Received:06.02.15 09.30
Lab Sample Id: 508789-003 Date Collected: 05.29.15 13.52 Sample Depth: 13 ft

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: BRO % Moisture:
Analyst: CLAR Date Prep: 06.03.15 09.30
Seq Number: 969441

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	U	0.0204	0.00613	ug/L	06.04.15 00.25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	60-140	06.04.15 00.25	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: ZHO Date Prep: 06.05.15 10.34
Seq Number: 969728

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	U	1.00	0.160	ug/L	06.05.15 18.19	U	1
Toluene	108-88-3	**1.07**	1.00	0.140	ug/L	06.05.15 18.19		1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	06.05.15 18.19	U	1
m,p-Xylenes	179601-23-1	**2.54**	2.00	0.510	ug/L	06.05.15 18.19		1
o-Xylene	95-47-6	**2.82**	1.00	0.200	ug/L	06.05.15 18.19		1
Xylenes, Total	1330-20-7	**5.36**	1.00	0.200	ug/L	06.05.15 18.19		1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	06.05.15 18.19	U	1
Naphthalene	91-20-3	**4.88**	1.00	0.220	ug/L	06.05.15 18.19		1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.05.15 18.19	U	1
Ethyl tert-butyl alcohol	590-36-3	U	5.00	1.10	ug/L	06.05.15 18.19	U	1
Diisopropyl ether	108-20-3	U	1.00	0.0800	ug/L	06.05.15 18.19	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.05.15 18.19	U	1
tert-Butyl alcohol	75-65-0	U	5.00	1.00	ug/L	06.05.15 18.19	U	1
tert-Amyl alcohol	75-85-4	U	5.00	1.10	ug/L	06.05.15 18.19	U	1
tert-Amyl methyl ether	994-05-8	U	1.00	0.300	ug/L	06.05.15 18.19	U	1
Ethyl tert-butyl ether	637-92-3	U	1.00	0.300	ug/L	06.05.15 18.19	U	1
tert-Butyl formate	762-75-4	U	5.00	1.00	ug/L	06.05.15 18.19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	108	%	53-159	06.05.15 18.19	
4-Bromofluorobenzene	460-00-4	96	%	30-186	06.05.15 18.19	
Toluene-D8	2037-26-5	101	%	70-130	06.05.15 18.19	

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Sample Id: **12458 MW-4** Matrix: Ground Water Date Received:06.02.15 09.30
Lab Sample Id: 508789-004 Date Collected: 05.29.15 10.04 Sample Depth: 15 ft

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: BRO % Moisture:
Analyst: CLAR Date Prep: 06.03.15 09.30
Seq Number: 969441

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	U	0.0199	0.00597	ug/L	06.04.15 00.49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	60-140	06.04.15 00.49	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: ZHO Date Prep: 06.05.15 10.34
Seq Number: 969728

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	U	1.00	0.160	ug/L	06.05.15 18.44	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	06.05.15 18.44	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	06.05.15 18.44	U	1
m,p-Xylenes	179601-23-1	**1.60**	2.00	0.510	ug/L	06.05.15 18.44	J	1
o-Xylene	95-47-6	**2.70**	1.00	0.200	ug/L	06.05.15 18.44		1
Xylenes, Total	1330-20-7	**4.30**	1.00	0.200	ug/L	06.05.15 18.44		1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	06.05.15 18.44	U	1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	06.05.15 18.44	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.05.15 18.44	U	1
Ethyl tert-butyl alcohol	590-36-3	U	5.00	1.10	ug/L	06.05.15 18.44	U	1
Diisopropyl ether	108-20-3	U	1.00	0.0800	ug/L	06.05.15 18.44	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.05.15 18.44	U	1
tert-Butyl alcohol	75-65-0	U	5.00	1.00	ug/L	06.05.15 18.44	U	1
tert-Amyl alcohol	75-85-4	U	5.00	1.10	ug/L	06.05.15 18.44	U	1
tert-Amyl methyl ether	994-05-8	U	1.00	0.300	ug/L	06.05.15 18.44	U	1
Ethyl tert-butyl ether	637-92-3	U	1.00	0.300	ug/L	06.05.15 18.44	U	1
tert-Butyl formate	762-75-4	U	5.00	1.00	ug/L	06.05.15 18.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	113	%	53-159	06.05.15 18.44	
4-Bromofluorobenzene	460-00-4	96	%	30-186	06.05.15 18.44	
Toluene-D8	2037-26-5	101	%	70-130	06.05.15 18.44	

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Sample Id: **12458 MW-7** Matrix: Ground Water Date Received:06.02.15 09.30
Lab Sample Id: 508789-005 Date Collected: 05.29.15 14.52 Sample Depth: 15 ft

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: BRO % Moisture:
Analyst: CLAR Date Prep: 06.03.15 14.25
Seq Number: 969561

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	U	0.0203	0.00608	ug/L	06.04.15 03.37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	91	%	60-140	06.04.15 03.37	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: ZHO Date Prep: 06.05.15 10.34
Seq Number: 969728

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	U	1.00	0.160	ug/L	06.05.15 19.10	U	1
Toluene	108-88-3	**1.48**	1.00	0.140	ug/L	06.05.15 19.10		1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	06.05.15 19.10	U	1
m,p-Xylenes	179601-23-1	**5.64**	2.00	0.510	ug/L	06.05.15 19.10		1
o-Xylene	95-47-6	**4.54**	1.00	0.200	ug/L	06.05.15 19.10		1
Xylenes, Total	1330-20-7	**10.2**	1.00	0.200	ug/L	06.05.15 19.10		1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	06.05.15 19.10	U	1
Naphthalene	91-20-3	**5.58**	1.00	0.220	ug/L	06.05.15 19.10		1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.05.15 19.10	U	1
Ethyl tert-butyl alcohol	590-36-3	U	5.00	1.10	ug/L	06.05.15 19.10	U	1
Diisopropyl ether	108-20-3	U	1.00	0.0800	ug/L	06.05.15 19.10	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.05.15 19.10	U	1
tert-Butyl alcohol	75-65-0	U	5.00	1.00	ug/L	06.05.15 19.10	U	1
tert-Amyl alcohol	75-85-4	U	5.00	1.10	ug/L	06.05.15 19.10	U	1
tert-Amyl methyl ether	994-05-8	U	1.00	0.300	ug/L	06.05.15 19.10	U	1
Ethyl tert-butyl ether	637-92-3	U	1.00	0.300	ug/L	06.05.15 19.10	U	1
tert-Butyl formate	762-75-4	U	5.00	1.00	ug/L	06.05.15 19.10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	117	%	53-159	06.05.15 19.10	
4-Bromofluorobenzene	460-00-4	93	%	30-186	06.05.15 19.10	
Toluene-D8	2037-26-5	101	%	70-130	06.05.15 19.10	

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Sample Id: **12458 MW-12** Matrix: Ground Water Date Received:06.02.15 09.30
Lab Sample Id: 508789-006 Date Collected: 05.29.15 15.02 Sample Depth: 17 ft

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: BRO % Moisture:
Analyst: CLAR Date Prep: 06.03.15 14.25
Seq Number: 969561

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	**0.309**	0.0202	0.00607	ug/L	06.04.15 04.01		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	96	%	60-140	06.04.15 04.01	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: ZHO Date Prep: 06.05.15 10.34
Seq Number: 969728

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**7820**	100	16.0	ug/L	06.07.15 23.40	D	100
Toluene	108-88-3	**14900**	100	14.0	ug/L	06.07.15 23.40	D	100
Ethylbenzene	100-41-4	**1540**	100	19.0	ug/L	06.07.15 23.40	D	100
m,p-Xylenes	179601-23-1	**5820**	200	51.0	ug/L	06.07.15 23.40	D	100
o-Xylene	95-47-6	**2230**	100	20.0	ug/L	06.07.15 23.40	D	100
Xylenes, Total	1330-20-7	**8050**	100	20.0	ug/L	06.07.15 23.40		100
Methyl tert-butyl ether	1634-04-4	**2430**	200	18.0	ug/L	06.07.15 23.40	D	100
Naphthalene	91-20-3	**816**	100	22.0	ug/L	06.07.15 23.40	D	100
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.05.15 19.35	U	1
Ethyl tert-butyl alcohol	590-36-3	U	5.00	1.10	ug/L	06.05.15 19.35	U	1
Diisopropyl ether	108-20-3	**436**	100	8.00	ug/L	06.07.15 23.40	D	100
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.05.15 19.35	U	1
tert-Butyl alcohol	75-65-0	**1280**	500	100	ug/L	06.07.15 23.40	D	100
tert-Amyl alcohol	75-85-4	U	5.00	1.10	ug/L	06.05.15 19.35	U	1
tert-Amyl methyl ether	994-05-8	U	1.00	0.300	ug/L	06.05.15 19.35	U	1
Ethyl tert-butyl ether	637-92-3	U	1.00	0.300	ug/L	06.05.15 19.35	U	1
tert-Butyl formate	762-75-4	U	5.00	1.00	ug/L	06.05.15 19.35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	96	%	53-159	06.05.15 19.35	
4-Bromofluorobenzene	460-00-4	102	%	30-186	06.05.15 19.35	
Toluene-D8	2037-26-5	103	%	70-130	06.05.15 19.35	

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Sample Id: **12458 MW-13** Matrix: Ground Water Date Received:06.02.15 09.30
Lab Sample Id: 508789-007 Date Collected: 05.29.15 12.48 Sample Depth: 13 ft

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: BRO % Moisture:
Analyst: CLAR Date Prep: 06.03.15 14.25
Seq Number: 969561

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	U	0.0204	0.00611	ug/L	06.04.15 04.25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	91	%	60-140	06.04.15 04.25	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: ZHO Date Prep: 06.05.15 10.34
Seq Number: 969728

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**1500**	50.0	8.00	ug/L	06.09.15 15.00	D	50
Toluene	108-88-3	**636**	50.0	7.00	ug/L	06.09.15 15.00	D	50
Ethylbenzene	100-41-4	**390**	50.0	9.50	ug/L	06.09.15 15.00	D	50
m,p-Xylenes	179601-23-1	**647**	100	25.5	ug/L	06.09.15 15.00	D	50
o-Xylene	95-47-6	**352**	50.0	10.0	ug/L	06 09.15 15.00	D	50
Xylenes, Total	1330-20-7	**999**	50.0	10.0	ug/L	06.09.15 15.00		50
Methyl tert-butyl ether	1634-04-4	**7.89**	2.00	0.180	ug/L	06.05.15 20.00		1
Naphthalene	91-20-3	**454**	50.0	11.0	ug/L	06.09.15 15.00	D	50
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.05.15 20.00	U	1
Ethyl tert-butyl alcohol	590-36-3	U	5.00	1.10	ug/L	06.05.15 20.00	U	1
Diisopropyl ether	108-20-3	**18.9**	1.00	0.0800	ug/L	06.05.15 20.00		1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.05.15 20.00	U	1
tert-Butyl alcohol	75-65-0	**89.3**	5.00	1.00	ug/L	06.05.15 20.00		1
tert-Amyl alcohol	75-85-4	**1180**	250	55.0	ug/L	06.09.15 15.00	D	50
tert-Amyl methyl ether	994-05-8	U	1.00	0.300	ug/L	06.05.15 20.00	U	1
Ethyl tert-butyl ether	637-92-3	U	1.00	0.300	ug/L	06.05.15 20.00	U	1
tert-Butyl formate	762-75-4	U	5.00	1.00	ug/L	06.05.15 20.00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	83	%	53-159	06.05.15 20.00	
4-Bromofluorobenzene	460-00-4	103	%	30-186	06.05.15 20.00	
Toluene-D8	2037-26-5	103	%	70-130	06.05.15 20.00	

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Sample Id: **12458 MW-14** Matrix: Ground Water Date Received:06.02.15 09.30
Lab Sample Id: 508789-008 Date Collected: 05.29.15 10.46 Sample Depth: 25 ft

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: BRO % Moisture:
Analyst: CLAR Date Prep: 06.03.15 14.25
Seq Number: 969561

Parameter	Cas Number	Result		RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4		U	0.0207	0.00621	ug/L	06.04.15 04.49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	60-140	06.04.15 04.49	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.07.15 12.55
Seq Number: 969729

Parameter	Cas Number	Result		RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2		U	1.00	0.160	ug/L	06.07.15 16.45	U	1
Toluene	108-88-3		U	1.00	0.140	ug/L	06.07.15 16.45	U	1
Ethylbenzene	100-41-4		U	1.00	0.190	ug/L	06.07.15 16.45	U	1
m,p-Xylenes	179601-23-1		U	2.00	0.510	ug/L	06.07.15 16.45	U	1
o-Xylene	95-47-6		U	1.00	0.200	ug/L	06.07.15 16.45	U	1
Xylenes, Total	1330-20-7		U	1.00	0.200	ug/L	06.07.15 16.45	U	1
Methyl tert-butyl ether	1634-04-4		U	2.00	0.180	ug/L	06.07.15 16.45	U	1
Naphthalene	91-20-3		U	1.00	0.220	ug/L	06.07.15 16.45	U	1
1,2-Dichloroethane	107-06-2		U	1.00	0.180	ug/L	06.07.15 16.45	U	1
Ethyl tert-butyl alcohol	590-36-3		U	5.00	1.10	ug/L	06.07.15 16.45	U	1
Diisopropyl ether	108-20-3		U	1.00	0.0800	ug/L	06.07.15 16.45	U	1
Ethanol	64-17-5		U	20.0	8.00	ug/L	06.07.15 16.45	U	1
tert-Butyl alcohol	75-65-0		U	5.00	1.00	ug/L	06.07.15 16.45	U	1
tert-Amyl alcohol	75-85-4		U	5.00	1.10	ug/L	06.07.15 16.45	U	1
tert-Amyl methyl ether	994-05-8		U	1.00	0.300	ug/L	06.07.15 16.45	U	1
Ethyl tert-butyl ether	637-92-3		U	1.00	0.300	ug/L	06.07.15 16.45	U	1
tert-Butyl formate	762-75-4		U	5.00	1.00	ug/L	06.07.15 16.45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	112	%	53-159	06.07.15 16.45	
4-Bromofluorobenzene	460-00-4	94	%	30-186	06.07.15 16.45	
Toluene-D8	2037-26-5	103	%	70-130	06.07.15 16.45	

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Sample Id: **12458 MW-15** Matrix: Ground Water Date Received:06.02.15 09.30
Lab Sample Id: 508789-009 Date Collected: 05.29.15 12.28 Sample Depth: 25 ft

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: BRO % Moisture:
Analyst: CLAR Date Prep: 06.03.15 14.25
Seq Number: 969561

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	U	0 0203	0.00609	ug/L	06.04.15 05.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	60-140	06.04.15 05.13	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.07.15 12.55
Seq Number: 969729

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	U	1.00	0.160	ug/L	06.07.15 17.11	U	1
Toluene	108-88-3	**2.61**	1.00	0.140	ug/L	06.07.15 17.11		1
Ethylbenzene	100-41-4	U	1 00	0.190	ug/L	06 07.15 17.11	U	1
m,p-Xylenes	179601-23-1	**1.05**	2 00	0.510	ug/L	06.07.15 17 11	J	1
o-Xylene	95-47-6	**2.74**	1.00	0.200	ug/L	06.07.15 17.11		1
Xylenes, Total	1330-20-7	**3.79**	1.00	0.200	ug/L	06.07.15 17.11		1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	06.07.15 17.11	U	1
Naphthalene	91-20-3	**4.76**	1.00	0.220	ug/L	06.07.15 17.11		1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.07.15 17.11	U	1
Ethyl tert-butyl alcohol	590-36-3	U	5.00	1.10	ug/L	06.07.15 17.11	U	1
Diisopropyl ether	108-20-3	U	1.00	0.0800	ug/L	06.07.15 17.11	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.07.15 17.11	U	1
tert-Butyl alcohol	75-65-0	U	5.00	1.00	ug/L	06.07.15 17.11	U	1
tert-Amyl alcohol	75-85-4	U	5.00	1.10	ug/L	06.07.15 17.11	U	1
tert-Amyl methyl ether	994-05-8	U	1.00	0.300	ug/L	06.07.15 17.11	U	1
Ethyl tert-butyl ether	637-92-3	U	1.00	0.300	ug/L	06.07.15 17.11	U	1
tert-Butyl formate	762-75-4	U	5.00	1.00	ug/L	06.07.15 17.11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	115	%	53-159	06.07.15 17.11	
4-Bromofluorobenzene	460-00-4	98	%	30-186	06.07.15 17.11	
Toluene-D8	2037-26-5	103	%	70-130	06.07.15 17.11	

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Sample Id: **12458 MW-16** Matrix: Ground Water Date Received:06.02.15 09.30
Lab Sample Id: 508789-010 Date Collected: 05.29.15 12.21 Sample Depth: 20 ft

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: BRO % Moisture:
Analyst: CLAR Date Prep: 06.03.15 14.25
Seq Number: 969561

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	U	0.0200	0.00600	ug/L	06.04.15 05.37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	101	%	60-140	06.04.15 05.37	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.07.15 12.55
Seq Number: 969729

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	U	1.00	0.160	ug/L	06.07.15 17.37	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	06.07.15 17.37	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	06.07.15 17.37	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	06.07 15 17.37	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	06.07.15 17.37	U	1
Xylenes, Total	1330-20-7	U	1.00	0.200	ug/L	06.07.15 17.37	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	06.07.15 17.37	U	1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	06.07.15 17.37	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.07.15 17.37	U	1
Ethyl tert-butyl alcohol	590-36-3	U	5.00	1.10	ug/L	06.07.15 17.37	U	1
Diisopropyl ether	108-20-3	U	1.00	0.0800	ug/L	06.07.15 17.37	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.07.15 17.37	U	1
tert-Butyl alcohol	75-65-0	U	5.00	1.00	ug/L	06.07.15 17.37	U	1
tert-Amyl alcohol	75-85-4	U	5.00	1.10	ug/L	06.07.15 17.37	U	1
tert-Amyl methyl ether	994-05-8	U	1.00	0.300	ug/L	06.07.15 17.37	U	1
Ethyl tert-butyl ether	637-92-3	U	1.00	0.300	ug/L	06.07.15 17.37	U	1
tert-Butyl formate	762-75-4	U	5.00	1.00	ug/L	06.07.15 17.37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	115	%	53-159	06.07.15 17.37	
4-Bromofluorobenzene	460-00-4	93	%	30-186	06.07.15 17.37	
Toluene-D8	2037-26-5	101	%	70-130	06.07.15 17.37	

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Sample Id: **12458 MW-17** Matrix: Ground Water Date Received:06.02.15 09.30
Lab Sample Id: 508789-011 Date Collected: 05.29.15 10.25 Sample Depth: 20 ft

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: BRO % Moisture:
Analyst: CLAR Date Prep: 06.03.15 14.25
Seq Number: 969561

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	**0.0592**	0.0202	0.00607	ug/L	06.04.15 06.01		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	96	%	60-140	06.04.15 06.01	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.07.15 12.55
Seq Number: 969729

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**3240**	100	16.0	ug/L	06.08.15 16.39	D	100
Toluene	108-88-3	**16800**	100	14.0	ug/L	06.08.15 16.39	D	100
Ethylbenzene	100-41-4	**1830**	100	19.0	ug/L	06.08 15 16 39	D	100
m,p-Xylenes	179601-23-1	**8520**	200	51.0	ug/L	06.08.15 16.39	D	100
o-Xylene	95-47-6	**2890**	100	20.0	ug/L	06.08.15 16.39	D	100
Xylenes, Total	1330-20-7	**11400**	100	20.0	ug/L	06.08.15 16.39		100
Methyl tert-butyl ether	1634-04-4	**5.47**	2.00	0.180	ug/L	06 07.15 18.02		1
Naphthalene	91-20-3	**960**	100	22.0	ug/L	06.08.15 16.39	D	100
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.07.15 18.02	U	1
Ethyl tert-butyl alcohol	590-36-3	**786**	5.00	1.10	ug/L	06.07.15 18.02		1
Diisopropyl ether	108-20-3	**82.6**	1.00	0.0800	ug/L	06.07.15 18.02		1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.07.15 18.02	U	1
tert-Butyl alcohol	75-65-0	**495**	5.00	1.00	ug/L	06.07.15 18.02		1
tert-Amyl alcohol	75-85-4	**1360**	500	110	ug/L	06.08.15 16.39	D	100
tert-Amyl methyl ether	994-05-8	**14.0**	1.00	0.300	ug/L	06.07.15 18.02		1
Ethyl tert-butyl ether	637-92-3	U	1.00	0.300	ug/L	06.07.15 18.02	U	1
tert-Butyl formate	762-75-4	U	5.00	1.00	ug/L	06.07.15 18.02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	101	%	53-159	06.07.15 18.02	
4-Bromofluorobenzene	460-00-4	101	%	30-186	06.07.15 18.02	
Toluene-D8	2037-26-5	104	%	70-130	06.07.15 18.02	

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Sample Id: **12458 MW-18D** Matrix: Ground Water Date Received:06.02.15 09.30
Lab Sample Id: 508789-012 Date Collected: 05.29.15 16.15 Sample Depth: 80 ft

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: BRO % Moisture:
Analyst: CLAR Date Prep: 06.03.15 14.25
Seq Number: 969561

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	U	0.0203	0.00608	ug/L	06.04.15 06.25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	101	%	60-140	06.04.15 06.25	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.07.15 12.55
Seq Number: 969729

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**10.6**	1.00	0.160	ug/L	06.07.15 18.28		1
Toluene	108-88-3	**55.3**	1.00	0.140	ug/L	06.07.15 18.28		1
Ethylbenzene	100-41-4	**6.66**	1.00	0.190	ug/L	06.07.15 18.28		1
m,p-Xylenes	179601-23-1	**30.8**	2.00	0.510	ug/L	06.07 15 18.28		1
o-Xylene	95-47-6	**11.2**	1.00	0.200	ug/L	06.07.15 18.28		1
Xylenes, Total	1330-20-7	**42.0**	1.00	0.200	ug/L	06.07.15 18.28		1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	06.07.15 18.28	U	1
Naphthalene	91-20-3	**20.9**	1.00	0.220	ug/L	06.07.15 18.28		1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.07.15 18.28	U	1
Ethyl tert-butyl alcohol	590-36-3	U	5.00	1.10	ug/L	06.07.15 18.28	U	1
Diisopropyl ether	108-20-3	U	1.00	0.0800	ug/L	06.07.15 18.28	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.07.15 18.28	U	1
tert-Butyl alcohol	75-65-0	U	5.00	1.00	ug/L	06.07.15 18.28	U	1
tert-Amyl alcohol	75-85-4	U	5.00	1.10	ug/L	06.07.15 18.28	U	1
tert-Amyl methyl ether	994-05-8	U	1.00	0.300	ug/L	06.07.15 18.28	U	1
Ethyl tert-butyl ether	637-92-3	U	1.00	0.300	ug/L	06.07.15 18.28	U	1
tert-Butyl formate	762-75-4	U	5.00	1.00	ug/L	06.07.15 18.28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	90	%	53-159	06.07.15 18.28	
4-Bromofluorobenzene	460-00-4	103	%	30-186	06.07.15 18.28	
Toluene-D8	2037-26-5	104	%	70-130	06.07.15 18.28	

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Sample Id: **12458 MW-19D** Matrix: Ground Water Date Received:06.02.15 09.30
Lab Sample Id: 508789-013 Date Collected: 05.29.15 08.12 Sample Depth: 48 ft

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: BRO % Moisture:
Analyst: CLAR Date Prep: 06.03.15 14.25
Seq Number: 969561

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	U	0.0202	0.00607	ug/L	06.04.15 07.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	60-140	06.04.15 07.13	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: ZHO Date Prep: 06.08.15 12.06
Seq Number: 969845

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**2.56**	1.00	0.160	ug/L	06.08.15 17.05		1
Toluene	108-88-3	**23.5**	1.00	0.140	ug/L	06.08.15 17.05		1
Ethylbenzene	100-41-4	**3.02**	1.00	0.190	ug/L	06.08.15 17.05		1
m,p-Xylenes	179601-23-1	**15.1**	2.00	0.510	ug/L	06.08.15 17.05		1
o-Xylene	95-47-6	**5.91**	1.00	0.200	ug/L	06.08.15 17.05		1
Xylenes, Total	1330-20-7	**21.0**	1.00	0.200	ug/L	06.08.15 17.05		1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	06.08.15 17.05	U	1
Naphthalene	91-20-3	**5.77**	1.00	0.220	ug/L	06.08.15 17.05		1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.08.15 17.05	U	1
Ethyl tert-butyl alcohol	590-36-3	U	5.00	1.10	ug/L	06.08.15 17.05	U	1
Diisopropyl ether	108-20-3	U	1.00	0.0800	ug/L	06.08.15 17.05	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.08.15 17.05	U	1
tert-Butyl alcohol	75-65-0	U	5.00	1.00	ug/L	06.08.15 17.05	U	1
tert-Amyl alcohol	75-85-4	U	5.00	1.10	ug/L	06.08.15 17.05	U	1
tert-Amyl methyl ether	994-05-8	U	1.00	0.300	ug/L	06.08.15 17.05	U	1
Ethyl tert-butyl ether	637-92-3	U	1.00	0.300	ug/L	06.08.15 17.05	U	1
tert-Butyl formate	762-75-4	U	5.00	1.00	ug/L	06.08.15 17.05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	111	%	53-159	06.08.15 17.05	
4-Bromofluorobenzene	460-00-4	99	%	30-186	06.08.15 17.05	
Toluene-D8	2037-26-5	103	%	70-130	06.08.15 17.05	

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Sample Id: **12458 MW-20D** Matrix: Ground Water Date Received:06.02.15 09.30
Lab Sample Id: 508789-014 Date Collected: 05.29.15 17.18 Sample Depth: 47 ft

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: BRO % Moisture:
Analyst: CLAR Date Prep: 06.03.15 14.25
Seq Number: 969561

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	U	0.0208	0.00623	ug/L	06.04.15 07.37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	92	%	60-140	06.04.15 07.37	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: ZHO % Moisture:
Analyst: MWE Date Prep: 06.05.15 10.34
Seq Number: 969720

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	U	1.00	0.160	ug/L	06.05.15 20.37	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	06.05.15 20.37	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	06.05.15 20.37	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	06.05.15 20.37	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	06.05.15 20.37	U	1
Xylenes, Total	1330-20-7	U	1.00	0.200	ug/L	06.05.15 20.37	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	06.05.15 20.37	U	1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	06.05.15 20.37	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.05.15 20.37	U	1
Ethyl tert-butyl alcohol	590-36-3	U	5.00	1.10	ug/L	06.05.15 20.37	U	1
Diisopropyl ether	108-20-3	U	1.00	0.0800	ug/L	06.05.15 20.37	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.05.15 20.37	U	1
tert-Butyl alcohol	75-65-0	U	5.00	1.00	ug/L	06.05.15 20.37	U	1
tert-Amyl alcohol	75-85-4	U	5.00	1.10	ug/L	06.05.15 20.37	U	1
tert-Amyl methyl ether	994-05-8	U	1.00	0.300	ug/L	06.05.15 20.37	U	1
Ethyl tert-butyl ether	637-92-3	U	1.00	0.300	ug/L	06.05.15 20.37	U	1
tert-Butyl formate	762-75-4	U	5.00	1.00	ug/L	06.05.15 20.37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	96	%	53-159	06.05.15 20.37	
4-Bromofluorobenzene	460-00-4	109	%	30-186	06.05.15 20.37	
Toluene-D8	2037-26-5	99	%	70-130	06.05.15 20.37	

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Sample Id: **12458 MW-21D** Matrix: Ground Water Date Received:06.02.15 09.30
Lab Sample Id: 508789-015 Date Collected: 05.29.15 16.49 Sample Depth: 47 ft

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: BRO % Moisture:
Analyst: CLAR Date Prep: 06.03.15 14.25
Seq Number: 969561

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	U	0.0208	0.00624	ug/L	06.04.15 08.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	60-140	06.04.15 08.24	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: ZHO % Moisture:
Analyst: MWE Date Prep: 06.05.15 10.34
Seq Number: 969720

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	U	1.00	0.160	ug/L	06.05.15 21.04	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	06.05.15 21.04	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	06.05.15 21.04	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	06.05.15 21.04	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	06.05.15 21.04	U	1
Xylenes, Total	1330-20-7	U	1.00	0.200	ug/L	06.05.15 21.04	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	06 05.15 21.04	U	1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	06.05.15 21.04	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.05.15 21.04	U	1
Ethyl tert-butyl alcohol	590-36-3	U	5.00	1.10	ug/L	06.05.15 21.04	U	1
Diisopropyl ether	108-20-3	U	1.00	0.0800	ug/L	06.05.15 21.04	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.05.15 21.04	U	1
tert-Butyl alcohol	75-65-0	U	5.00	1.00	ug/L	06.05.15 21.04	U	1
tert-Amyl alcohol	75-85-4	U	5.00	1.10	ug/L	06.05.15 21.04	U	1
tert-Amyl methyl ether	994-05-8	U	1.00	0.300	ug/L	06.05.15 21.04	U	1
Ethyl tert-butyl ether	637-92-3	U	1.00	0.300	ug/L	06.05.15 21.04	U	1
tert-Butyl formate	762-75-4	U	5.00	1.00	ug/L	06.05.15 21.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	99	%	53-159	06.05.15 21.04	
4-Bromofluorobenzene	460-00-4	111	%	30-186	06.05.15 21.04	
Toluene-D8	2037-26-5	97	%	70-130	06.05.15 21.04	

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Sample Id: **12458 MW-22D** Matrix: Ground Water Date Received:06.02.15 09.30
Lab Sample Id: 508789-016 Date Collected: 05.29.15 08.40 Sample Depth: 47 ft

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: BRO % Moisture:
Analyst: CLAR Date Prep: 06.03.15 14.25
Seq Number: 969561

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	U	0.0206	0.00617	ug/L	06.04.15 08.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	60-140	06.04.15 08.48	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: ZHO % Moisture:
Analyst: MWE Date Prep: 06.05.15 10.34
Seq Number: 969720

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	U	1.00	0.160	ug/L	06.05.15 21.31	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	06.05.15 21.31	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	06.05 15 21.31	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	06.05.15 21.31	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	06.05.15 21.31	U	1
Xylenes, Total	1330-20-7	U	1.00	0.200	ug/L	06.05.15 21.31	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	06.05.15 21.31	U	1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	06.05.15 21.31	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.05.15 21.31	U	1
Ethyl tert-butyl alcohol	590-36-3	U	5.00	1.10	ug/L	06.05.15 21.31	U	1
Diisopropyl ether	108-20-3	U	1.00	0.0800	ug/L	06.05.15 21.31	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.05.15 21.31	U	1
tert-Butyl alcohol	75-65-0	U	5.00	1.00	ug/L	06.05.15 21.31	U	1
tert-Amyl alcohol	75-85-4	U	5.00	1.10	ug/L	06.05.15 21.31	U	1
tert-Amyl methyl ether	994-05-8	U	1.00	0.300	ug/L	06.05.15 21.31	U	1
Ethyl tert-butyl ether	637-92-3	U	1.00	0.300	ug/L	06.05.15 21.31	U	1
tert-Butyl formate	762-75-4	U	5.00	1.00	ug/L	06.05.15 21.31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	97	%	53-159	06.05.15 21.31	
4-Bromofluorobenzene	460-00-4	111	%	30-186	06.05.15 21.31	
Toluene-D8	2037-26-5	91	%	70-130	06.05.15 21.31	

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Sample Id: **12458 MW-23** Matrix: Ground Water Date Received:06.02.15 09.30
Lab Sample Id: 508789-017 Date Collected: 05.29.15 10.33 Sample Depth: 18 ft

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: BRO % Moisture:
Analyst: CLAR Date Prep: 06.03.15 14.25
Seq Number: 969561

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	U	0.0211	0.00633	ug/L	06.04.15 09.12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	60-140	06.04.15 09.12	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.05.15 12.18
Seq Number: 969783

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**138**	1.00	0.160	ug/L	06.05.15 16.09	X	1
Toluene	108-88-3	**43.0**	1.00	0.140	ug/L	06.05.15 16.09	X	1
Ethylbenzene	100-41-4	**36.0**	1.00	0.190	ug/L	06.05.15 16.09	X	1
m,p-Xylenes	179601-23-1	**66.5**	2.00	0.510	ug/L	06.05.15 16.09	X	1
o-Xylene	95-47-6	**42.5**	1.00	0.200	ug/L	06.05.15 16.09	X	1
Xylenes, Total	1330-20-7	**109**	1.00	0.200	ug/L	06.05.15 16.09		1
Methyl tert-butyl ether	1634-04-4	**151**	2.00	0.180	ug/L	06.05.15 16.09		1
Naphthalene	91-20-3	**9.94**	1.00	0.220	ug/L	06.05.15 16.09		1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.05.15 16.09	U	1
Ethyl tert-butyl alcohol	590-36-3	**133**	5.00	1.10	ug/L	06.05.15 16.09		1
Diisopropyl ether	108-20-3	**31.5**	1.00	0.0800	ug/L	06.05.15 16.09		1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.05.15 16.09	U	1
tert-Butyl alcohol	75-65-0	**138**	5.00	1.00	ug/L	06.05.15 16.09		1
tert-Amyl alcohol	75-85-4	**619**	5.00	1.10	ug/L	06.05.15 16.09		1
tert-Amyl methyl ether	994-05-8	**4.91**	1.00	0.300	ug/L	06.05.15 16.09		1
Ethyl tert-butyl ether	637-92-3	U	1.00	0.300	ug/L	06.05.15 16.09	U	1
tert-Butyl formate	762-75-4	U	5.00	1.00	ug/L	06.05.15 16.09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	95	%	53-159	06.05.15 16.09	
4-Bromofluorobenzene	460-00-4	102	%	30-186	06.05.15 16.09	
Toluene-D8	2037-26-5	104	%	70-130	06.05.15 16.09	

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Sample Id: **12458 MW-24** Matrix: Ground Water Date Received:06.02.15 09.30
Lab Sample Id: 508789-018 Date Collected: 05.29.15 11.05 Sample Depth: 20 ft

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: BRO % Moisture:
Analyst: CLAR Date Prep: 06.03.15 14.25
Seq Number: 969561

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	U	0.0208	0.00625	ug/L	06.04.15 15.05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	102	%	60-140	06.04.15 15.05	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.05.15 12.18
Seq Number: 969783

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**624**	100	16.0	ug/L	06.08.15 22.07	D	100
Toluene	108-88-3	**27.9**	1.00	0.140	ug/L	06.05.15 16.33		1
Ethylbenzene	100-41-4	**7.53**	1.00	0.190	ug/L	06.05.15 16.33		1
m,p-Xylenes	179601-23-1	**11.1**	2.00	0.510	ug/L	06.05.15 16.33		1
o-Xylene	95-47-6	**11.0**	1.00	0.200	ug/L	06 05.15 16.33		1
Xylenes, Total	1330-20-7	**22.1**	1.00	0.200	ug/L	06.05.15 16.33		1
Methyl tert-butyl ether	1634-04-4	**2050**	200	18.0	ug/L	06.08.15 22.07	D	100
Naphthalene	91-20-3	**6.21**	1.00	0.220	ug/L	06.05.15 16.33		1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.05.15 16.33	U	1
Ethyl tert-butyl alcohol	590-36-3	**919**	500	110	ug/L	06.08.15 22.07	D	100
Diisopropyl ether	108-20-3	**207**	100	8.00	ug/L	06.08.15 22.07	D	100
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.05.15 16.33	U	1
tert-Butyl alcohol	75-65-0	**1930**	500	100	ug/L	06.08.15 22.07	D	100
tert-Amyl alcohol	75-85-4	**6840**	500	110	ug/L	06.08.15 22.07	D	100
tert-Amyl methyl ether	994-05-8	**43.6**	1.00	0.300	ug/L	06.05.15 16.33		1
Ethyl tert-butyl ether	637-92-3	U	1.00	0.300	ug/L	06.05.15 16.33	U	1
tert-Butyl formate	762-75-4	U	5.00	1.00	ug/L	06.05.15 16.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	90	%	53-159	06.05.15 16.33	
4-Bromofluorobenzene	460-00-4	99	%	30-186	06.05.15 16.33	
Toluene-D8	2037-26-5	100	%	70-130	06.05.15 16.33	

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Sample Id: **12458 MW-25** Matrix: Ground Water Date Received:06.02.15 09.30
Lab Sample Id: 508789-019 Date Collected: 05.29.15 10.10 Sample Depth: 20 ft

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: BRO % Moisture:
Analyst: CLAR Date Prep: 06.03.15 14.25
Seq Number: 969561

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	U	0.0205	0.00614	ug/L	06.04.15 15.29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	80	%	60-140	06.04.15 15.29	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.05.15 12.18
Seq Number: 969783

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**111**	1.00	0.160	ug/L	06.05.15 16.56		1
Toluene	108-88-3	**30.6**	1.00	0.140	ug/L	06.05.15 16.56		1
Ethylbenzene	100-41-4	**7.56**	1.00	0.190	ug/L	06.05.15 16.56		1
m,p-Xylenes	179601-23-1	**97.8**	2.00	0.510	ug/L	06.05.15 16.56		1
o-Xylene	95-47-6	**68.8**	1.00	0.200	ug/L	06.05.15 16.56		1
Xylenes, Total	1330-20-7	**167**	1.00	0.200	ug/L	06.05.15 16.56		1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	06.05.15 16.56	U	1
Naphthalene	91-20-3	**41.3**	1.00	0.220	ug/L	06.05.15 16.56		1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.05.15 16.56	U	1
Ethyl tert-butyl alcohol	590-36-3	**111**	5.00	1.10	ug/L	06.05.15 16.56		1
Diisopropyl ether	108-20-3	U	1.00	0.0800	ug/L	06.05.15 16.56	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.05.15 16.56	U	1
tert-Butyl alcohol	75-65-0	U	5.00	1.00	ug/L	06.05.15 16.56	U	1
tert-Amyl alcohol	75-85-4	**435**	5.00	1.10	ug/L	06.05.15 16.56		1
tert-Amyl methyl ether	994-05-8	U	1.00	0.300	ug/L	06.05.15 16.56	U	1
Ethyl tert-butyl ether	637-92-3	U	1.00	0.300	ug/L	06.05.15 16.56	U	1
tert-Butyl formate	762-75-4	U	5.00	1.00	ug/L	06.05.15 16.56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	86	%	53-159	06.05.15 16.56	
4-Bromofluorobenzene	460-00-4	96	%	30-186	06.05.15 16.56	
Toluene-D8	2037-26-5	107	%	70-130	06.05.15 16.56	

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Sample Id: **12458 MW-26**
Lab Sample Id: 508789-020

Matrix: Ground Water
Date Collected: 05.29.15 09.00

Date Received:06.02.15 09.30
Sample Depth: 20 ft

Analytical Method: EDB by EPA 8011
Tech: BRO
Analyst: CLAR
Seq Number: 969561

Date Prep: 06.03.15 14.25

Prep Method: SW8011P
% Moisture:

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	U	0.0209	0.00628	ug/L	06.04.15 15.53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	102	%	60-140	06.04.15 15.53	

Analytical Method: BTEX & Oxygenates by SW-846 8260B
Tech: MWE
Analyst: MWE
Seq Number: 969783

Date Prep: 06.05.15 12.18

Prep Method: SW5030B
% Moisture:

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	U	1.00	0.160	ug/L	06.05.15 17.20	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	06.05.15 17.20	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	06.05.15 17.20	U	1
m,p-Xylenes	179601-23-1	U	2.00	0 510	ug/L	06.05.15 17.20	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	06.05.15 17.20	U	1
Xylenes, Total	1330-20-7	U	1.00	0.200	ug/L	06.05.15 17.20	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	06.05.15 17.20	U	1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	06.05.15 17.20	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.05.15 17.20	U	1
Ethyl tert-butyl alcohol	590-36-3	U	5.00	1.10	ug/L	06.05.15 17.20	U	1
Diisopropyl ether	108-20-3	U	1.00	0.0800	ug/L	06.05.15 17.20	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.05.15 17.20	U	1
tert-Butyl alcohol	75-65-0	U	5.00	1.00	ug/L	06.05.15 17.20	U	1
tert-Amyl alcohol	75-85-4	U	5.00	1.10	ug/L	06.05.15 17.20	U	1
tert-Amyl methyl ether	994-05-8	U	1.00	0.300	ug/L	06.05.15 17.20	U	1
Ethyl tert-butyl ether	637-92-3	U	1.00	0.300	ug/L	06.05.15 17.20	U	1
tert-Butyl formate	762-75-4	U	5.00	1.00	ug/L	06.05.15 17.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	92	%	53-159	06.05.15 17.20	
4-Bromofluorobenzene	460-00-4	101	%	30-186	06.05.15 17.20	
Toluene-D8	2037-26-5	105	%	70-130	06.05.15 17.20	

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Sample Id: **12458 MW-27** Matrix: Ground Water Date Received:06.02.15 09.30
Lab Sample Id: 508789-021 Date Collected: 05.29.15 09.22 Sample Depth: 21 ft

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: BRO % Moisture:
Analyst: CLAR Date Prep: 06.03.15 14.25
Seq Number: 969561

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	U	0.0213	0 00638	ug/L	06.04.15 16.17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	95	%	60-140	06.04.15 16.17	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.05.15 12.18
Seq Number: 969783

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**733**	10.0	1.60	ug/L	06.08.15 21.07	D	10
Toluene	108-88-3	**267**	10.0	1.40	ug/L	06.08.15 21.07	D	10
Ethylbenzene	100-41-4	**179**	1.00	0.190	ug/L	06.05 15 17 43		1
m,p-Xylenes	179601-23-1	**276**	2.00	0.510	ug/L	06.05.15 17.43		1
o-Xylene	95-47-6	**65.4**	1.00	0.200	ug/L	06.05.15 17.43		1
Xylenes, Total	1330-20-7	**341**	1.00	0.200	ug/L	06.05.15 17.43		1
Methyl tert-butyl ether	1634-04-4	**79.1**	2.00	0.180	ug/L	06.05.15 17.43		1
Naphthalene	91-20-3	**75.2**	1.00	0.220	ug/L	06.05.15 17.43		1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.05.15 17.43	U	1
Ethyl tert-butyl alcohol	590-36-3	**163**	5.00	1.10	ug/L	06.05.15 17.43		1
Diisopropyl ether	108-20-3	**37.2**	1.00	0.0800	ug/L	06.05.15 17.43		1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.05.15 17.43	U	1
tert-Butyl alcohol	75-65-0	**101**	5.00	1.00	ug/L	06.05.15 17.43		1
tert-Amyl alcohol	75-85-4	**556**	5.00	1.10	ug/L	06.05.15 17.43		1
tert-Amyl methyl ether	994-05-8	**5.86**	1.00	0.300	ug/L	06.05.15 17.43		1
Ethyl tert-butyl ether	637-92-3	U	1.00	0.300	ug/L	06.05.15 17.43	U	1
tert-Butyl formate	762-75-4	U	5.00	1.00	ug/L	06.05.15 17.43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	87	%	53-159	06.05.15 17.43	
4-Bromofluorobenzene	460-00-4	99	%	30-186	06.05.15 17.43	
Toluene-D8	2037-26-5	100	%	70-130	06.05.15 17.43	

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Sample Id: **12458 MW-28** Matrix: Ground Water Date Received:06.02.15 09.30
Lab Sample Id: 508789-022 Date Collected: 05.29.15 09.42 Sample Depth: 20 ft

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: BRO % Moisture:
Analyst: CLAR Date Prep: 06.03.15 14.25
Seq Number: 969561

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	U	0.0207	0.00621	ug/L	06.04.15 16.40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	102	%	60-140	06.04.15 16.40	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.05.15 12.18
Seq Number: 969783

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	U	1.00	0.160	ug/L	06.05.15 18.07	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	06.05.15 18.07	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	06.05.15 18.07	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	06.05.15 18.07	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	06.05 15 18.07	U	1
Xylenes, Total	1330-20-7	U	1.00	0.200	ug/L	06.05.15 18.07	U	1
Methyl tert-butyl ether	1634-04-4	**3.38**	2.00	0.180	ug/L	06.05.15 18.07		1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	06.05.15 18.07	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.05.15 18.07	U	1
Ethyl tert-butyl alcohol	590-36-3	U	5.00	1.10	ug/L	06.05.15 18.07	U	1
Diisopropyl ether	108-20-3	U	1.00	0.0800	ug/L	06.05.15 18.07	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.05.15 18.07	U	1
tert-Butyl alcohol	75-65-0	U	5.00	1.00	ug/L	06.05.15 18.07	U	1
tert-Amyl alcohol	75-85-4	U	5.00	1.10	ug/L	06.05.15 18.07	U	1
tert-Amyl methyl ether	994-05-8	U	1.00	0.300	ug/L	06.05.15 18.07	U	1
Ethyl tert-butyl ether	637-92-3	U	1.00	0.300	ug/L	06.05.15 18.07	U	1
tert-Butyl formate	762-75-4	U	5.00	1.00	ug/L	06.05.15 18.07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	91	%	53-159	06.05.15 18.07	
4-Bromofluorobenzene	460-00-4	97	%	30-186	06.05.15 18.07	
Toluene-D8	2037-26-5	104	%	70-130	06.05.15 18.07	

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Sample Id: **12458 DMW-1** Matrix: Ground Water Date Received:06.02.15 09.30
Lab Sample Id: 508789-023 Date Collected: 05.29.15 14.29 Sample Depth: 78 ft

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: BRO % Moisture:
Analyst: CLAR Date Prep: 06.03.15 14.25
Seq Number: 969561

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	U	0.0206	0.00619	ug/L	06.04.15 17.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	60-140	06.04.15 17.04	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.05.15 12.18
Seq Number: 969783

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**20.7**	1.00	0.160	ug/L	06.05.15 18.30		1
Toluene	108-88-3	**32.3**	1.00	0.140	ug/L	06.05.15 18.30		1
Ethylbenzene	100-41-4	**2.66**	1.00	0.190	ug/L	06.05.15 18.30		1
m,p-Xylenes	179601-23-1	**8.74**	2.00	0.510	ug/L	06.05.15 18.30		1
o-Xylene	95-47-6	**7.27**	1.00	0.200	ug/L	06.05.15 18.30		1
Xylenes, Total	1330-20-7	**16.0**	1.00	0.200	ug/L	06.05.15 18.30		1
Methyl tert-butyl ether	1634-04-4	**12.9**	2.00	0.180	ug/L	06.05.15 18.30		1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	06.05.15 18.30	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.05.15 18.30	U	1
Ethyl tert-butyl alcohol	590-36-3	U	5.00	1.10	ug/L	06.05.15 18.30	U	1
Diisopropyl ether	108-20-3	**2.13**	1.00	0.0800	ug/L	06.05.15 18.30		1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.05.15 18.30	U	1
tert-Butyl alcohol	75-65-0	U	5.00	1.00	ug/L	06.05.15 18.30	U	1
tert-Amyl alcohol	75-85-4	U	5.00	1.10	ug/L	06.05.15 18.30	U	1
tert-Amyl methyl ether	994-05-8	U	1.00	0.300	ug/L	06.05.15 18.30	U	1
Ethyl tert-butyl ether	637-92-3	U	1.00	0.300	ug/L	06.05.15 18.30	U	1
tert-Butyl formate	762-75-4	U	5.00	1.00	ug/L	06.05.15 18.30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	92	%	53-159	06.05.15 18.30	
4-Bromofluorobenzene	460-00-4	98	%	30-186	06.05.15 18.30	
Toluene-D8	2037-26-5	105	%	70-130	06.05.15 18.30	

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Sample Id: **12458 DMW-2** Matrix: Ground Water Date Received:06.02.15 09.30
Lab Sample Id: 508789-024 Date Collected: 05.29.15 12.57 Sample Depth: 80 ft

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: BRO % Moisture:
Analyst: CLAR Date Prep: 06.03.15 14.25
Seq Number: 969561

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	U	0.0204	0.00613	ug/L	06.04.15 17.28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	60-140	06.04.15 17.28	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.05.15 12.18
Seq Number: 969783

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	U	1.00	0.160	ug/L	06.05.15 18.54	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	06.05.15 18.54	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	06.05 15 18.54	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	06.05.15 18.54	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	06.05.15 18.54	U	1
Xylenes, Total	1330-20-7	U	1.00	0.200	ug/L	06.05.15 18.54	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	06.05.15 18.54	U	1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	06.05.15 18.54	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.05.15 18 54	U	1
Ethyl tert-butyl alcohol	590-36-3	U	5.00	1.10	ug/L	06.05.15 18.54	U	1
Diisopropyl ether	108-20-3	U	1.00	0.0800	ug/L	06.05.15 18.54	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.05.15 18.54	U	1
tert-Butyl alcohol	75-65-0	U	5.00	1.00	ug/L	06.05.15 18.54	U	1
tert-Amyl alcohol	75-85-4	U	5.00	1.10	ug/L	06.05.15 18.54	U	1
tert-Amyl methyl ether	994-05-8	U	1.00	0.300	ug/L	06.05.15 18.54	U	1
Ethyl tert-butyl ether	637-92-3	U	1.00	0.300	ug/L	06.05.15 18.54	U	1
tert-Butyl formate	762-75-4	U	5.00	1.00	ug/L	06.05.15 18.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	96	%	53-159	06.05.15 18.54	
4-Bromofluorobenzene	460-00-4	98	%	30-186	06.05.15 18.54	
Toluene-D8	2037-26-5	108	%	70-130	06.05.15 18.54	

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Sample Id: **12458 DMW-3** Matrix: Ground Water Date Received:06.02.15 09.30
Lab Sample Id: 508789-025 Date Collected: 05.29.15 12.14 Sample Depth: 112 ft

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: BRO % Moisture:
Analyst: CLAR Date Prep: 06.04.15 14.05
Seq Number: 969566

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	U	0.0195	0.00586	ug/L	06.04.15 20.18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	60-140	06.04.15 20.18	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.05.15 12.18
Seq Number: 969783

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	U	1.00	0.160	ug/L	06.05.15 19.17	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	06.05.15 19.17	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	06.05 15 19.17	U	1
m,p-Xylenes	179601-23-1	U	2.00	0 510	ug/L	06 05.15 19.17	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	06.05.15 19.17	U	1
Xylenes, Total	1330-20-7	U	1.00	0.200	ug/L	06.05.15 19.17	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	06.05.15 19.17	U	1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	06.05.15 19.17	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.05.15 19.17	U	1
Ethyl tert-butyl alcohol	590-36-3	U	5.00	1.10	ug/L	06.05.15 19.17	U	1
Diisopropyl ether	108-20-3	U	1.00	0.0800	ug/L	06.05.15 19.17	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.05.15 19.17	U	1
tert-Butyl alcohol	75-65-0	U	5.00	1.00	ug/L	06.05.15 19.17	U	1
tert-Amyl alcohol	75-85-4	U	5.00	1.10	ug/L	06.05.15 19.17	U	1
tert-Amyl methyl ether	994-05-8	U	1.00	0.300	ug/L	06.05.15 19.17	U	1
Ethyl tert-butyl ether	637-92-3	U	1.00	0.300	ug/L	06.05.15 19.17	U	1
tert-Butyl formate	762-75-4	U	5.00	1.00	ug/L	06.05.15 19.17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	98	%	53-159	06.05.15 19.17	
4-Bromofluorobenzene	460-00-4	95	%	30-186	06.05.15 19.17	
Toluene-D8	2037-26-5	102	%	70-130	06.05.15 19.17	

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Sample Id: **12458 KMO-3** Matrix: Ground Water Date Received:06.02.15 09.30
Lab Sample Id: 508789-026 Date Collected: 05.29.15 13.46 Sample Depth: 14 ft

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: BRO % Moisture:
Analyst: CLAR Date Prep: 06.04.15 14.05
Seq Number: 969566

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	U	0.0202	0.00607	ug/L	06.04.15 20.42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	89	%	60-140	06.04.15 20.42	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.05.15 12.18
Seq Number: 969783

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**32.4**	1.00	0.160	ug/L	06.05.15 19.41		1
Toluene	108-88-3	U	1.00	0.140	ug/L	06.05.15 19.41	U	1
Ethylbenzene	100-41-4	**8.23**	1.00	0.190	ug/L	06.05.15 19.41		1
m,p-Xylenes	179601-23-1	**8.30**	2.00	0.510	ug/L	06.05.15 19.41		1
o-Xylene	95-47-6	**3.33**	1.00	0.200	ug/L	06.05.15 19.41		1
Xylenes, Total	1330-20-7	**11.6**	1.00	0.200	ug/L	06.05.15 19.41		1
Methyl tert-butyl ether	1634-04-4	**60.3**	2.00	0.180	ug/L	06.05.15 19.41		1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	06.05.15 19.41	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.05.15 19.41	U	1
Ethyl tert-butyl alcohol	590-36-3	U	5.00	1.10	ug/L	06.05.15 19.41	U	1
Diisopropyl ether	108-20-3	**83.4**	1.00	0.0800	ug/L	06.05.15 19.41		1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.05.15 19.41	U	1
tert-Butyl alcohol	75-65-0	**279**	5.00	1.00	ug/L	06.05.15 19.41		1
tert-Amyl alcohol	75-85-4	**66.2**	5.00	1.10	ug/L	06.05.15 19.41		1
tert-Amyl methyl ether	994-05-8	**3.57**	1.00	0.300	ug/L	06.05.15 19.41		1
Ethyl tert-butyl ether	637-92-3	U	1.00	0.300	ug/L	06.05.15 19.41	U	1
tert-Butyl formate	762-75-4	U	5.00	1.00	ug/L	06.05.15 19.41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	97	%	53-159	06.05.15 19.41	
4-Bromofluorobenzene	460-00-4	99	%	30-186	06.05.15 19.41	
Toluene-D8	2037-26-5	102	%	70-130	06.05.15 19.41	

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Sample Id: **12458 KMO-5** Matrix: Ground Water Date Received:06.02.15 09.30
Lab Sample Id: 508789-027 Date Collected: 05.29.15 13.24 Sample Depth: 14 ft

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: BRO % Moisture:
Analyst: CLAR Date Prep: 06.04.15 14.05
Seq Number: 969566

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	U	0.0202	0.00607	ug/L	06.04.15 21.06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	104	%	60-140	06.04.15 21.06	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.05.15 12.18
Seq Number: 969783

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**3.28**	1.00	0.160	ug/L	06.05.15 20.05		1
Toluene	108-88-3	U	1.00	0.140	ug/L	06.05.15 20.05	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	06.05.15 20.05	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	06.05.15 20.05	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	06.05.15 20.05	U	1
Xylenes, Total	1330-20-7	U	1.00	0.200	ug/L	06.05.15 20.05	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	06.05.15 20.05	U	1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	06.05.15 20.05	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.05.15 20.05	U	1
Ethyl tert-butyl alcohol	590-36-3	U	5.00	1.10	ug/L	06.05.15 20.05	U	1
Diisopropyl ether	108-20-3	U	1.00	0.0800	ug/L	06.05.15 20.05	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.05.15 20.05	U	1
tert-Butyl alcohol	75-65-0	U	5.00	1.00	ug/L	06.05.15 20.05	U	1
tert-Amyl alcohol	75-85-4	**93.3**	5.00	1.10	ug/L	06.05.15 20.05		1
tert-Amyl methyl ether	994-05-8	U	1.00	0.300	ug/L	06.05.15 20.05	U	1
Ethyl tert-butyl ether	637-92-3	U	1.00	0.300	ug/L	06.05.15 20.05	U	1
tert-Butyl formate	762-75-4	U	5.00	1.00	ug/L	06.05.15 20.05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	93	%	53-159	06.05.15 20.05	
4-Bromofluorobenzene	460-00-4	98	%	30-186	06.05.15 20.05	
Toluene-D8	2037-26-5	106	%	70-130	06.05.15 20.05	

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Sample Id: **12458 KMO-6** Matrix: Ground Water Date Received:06.02.15 09.30
Lab Sample Id: 508789-028 Date Collected: 05.29.15 14.15 Sample Depth: 15 ft

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: BRO % Moisture:
Analyst: CLAR Date Prep: 06.04.15 14.05
Seq Number: 969566

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	U	0.0205	0.00614	ug/L	06.04.15 21.30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	102	%	60-140	06.04.15 21.30	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.05.15 12.18
Seq Number: 969783

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**36.3**	1.00	0.160	ug/L	06.05.15 20.28		1
Toluene	108-88-3	**1.08**	1.00	0.140	ug/L	06.05.15 20.28		1
Ethylbenzene	100-41-4	**6.98**	1.00	0.190	ug/L	06.05.15 20.28		1
m,p-Xylenes	179601-23-1	**4.29**	2.00	0.510	ug/L	06.05.15 20.28		1
o-Xylene	95-47-6	**3.43**	1.00	0.200	ug/L	06.05.15 20.28		1
Xylenes, Total	1330-20-7	**7.72**	1.00	0.200	ug/L	06.05.15 20.28		1
Methyl tert-butyl ether	1634-04-4	**62.7**	2.00	0.180	ug/L	06.05.15 20.28		1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	06.05.15 20.28	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.05.15 20.28	U	1
Ethyl tert-butyl alcohol	590-36-3	U	5.00	1.10	ug/L	06.05.15 20.28	U	1
Diisopropyl ether	108-20-3	**61.7**	1.00	0.0800	ug/L	06.05.15 20.28		1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.05.15 20.28	U	1
tert-Butyl alcohol	75-65-0	**258**	5.00	1.00	ug/L	06.05.15 20.28		1
tert-Amyl alcohol	75-85-4	**81.4**	5.00	1.10	ug/L	06.05.15 20.28		1
tert-Amyl methyl ether	994-05-8	**6.38**	1.00	0.300	ug/L	06.05.15 20.28		1
Ethyl tert-butyl ether	637-92-3	U	1.00	0.300	ug/L	06.05.15 20.28	U	1
tert-Butyl formate	762-75-4	U	5.00	1.00	ug/L	06.05.15 20.28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	98	%	53-159	06.05.15 20.28	
4-Bromofluorobenzene	460-00-4	104	%	30-186	06.05.15 20.28	
Toluene-D8	2037-26-5	103	%	70-130	06.05.15 20.28	

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Sample Id: **12458 KMO-10** Matrix: Ground Water Date Received:06.02.15 09.30
Lab Sample Id: 508789-029 Date Collected: 05.29.15 14.38 Sample Depth: 15 ft

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: BRO % Moisture:
Analyst: CLAR Date Prep: 06.04.15 14.05
Seq Number: 969566

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	U	0.0198	0.00594	ug/L	06.04.15 21.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	89	%	60-140	06.04.15 21.54	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.05.15 12.18
Seq Number: 969783

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	U	1.00	0.160	ug/L	06.05.15 20.52	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	06.05.15 20.52	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	06.05.15 20.52	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	06.05.15 20.52	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	06.05.15 20.52	U	1
Xylenes, Total	1330-20-7	U	1.00	0.200	ug/L	06.05.15 20.52	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	06.05.15 20.52	U	1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	06.05.15 20.52	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.05.15 20.52	U	1
Ethyl tert-butyl alcohol	590-36-3	U	5.00	1.10	ug/L	06.05.15 20.52	U	1
Diisopropyl ether	108-20-3	U	1.00	0.0800	ug/L	06.05.15 20.52	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.05.15 20.52	U	1
tert-Butyl alcohol	75-65-0	U	5.00	1.00	ug/L	06.05.15 20.52	U	1
tert-Amyl alcohol	75-85-4	U	5.00	1.10	ug/L	06.05.15 20.52	U	1
tert-Amyl methyl ether	994-05-8	U	1.00	0.300	ug/L	06.05.15 20.52	U	1
Ethyl tert-butyl ether	637-92-3	U	1.00	0.300	ug/L	06.05.15 20.52	U	1
tert-Butyl formate	762-75-4	U	5.00	1.00	ug/L	06.05.15 20.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	100	%	53-159	06.05.15 20.52	
4-Bromofluorobenzene	460-00-4	100	%	30-186	06.05.15 20.52	
Toluene-D8	2037-26-5	104	%	70-130	06.05.15 20.52	

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Sample Id: **12458 KMO-11** Matrix: Ground Water Date Received:06.02.15 09.30
Lab Sample Id: 508789-030 Date Collected: 05.29.15 14.23 Sample Depth: 12 ft

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: BRO % Moisture:
Analyst: CLAR Date Prep: 06.04.15 14.05
Seq Number: 969566

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	U	0.0201	0.00603	ug/L	06.04.15 22.42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	91	%	60-140	06.04.15 22.42	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.05.15 12.18
Seq Number: 969783

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	U	1.00	0.160	ug/L	06.05.15 21.15	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	06.05.15 21.15	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	06.05.15 21.15	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	06.05.15 21.15	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	06.05.15 21.15	U	1
Xylenes, Total	1330-20-7	U	1.00	0.200	ug/L	06.05.15 21.15	U	1
Methyl tert-butyl ether	1634-04-4	**12.0**	2 00	0.180	ug/L	06.05.15 21.15		1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	06.05.15 21.15	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.05.15 21.15	U	1
Ethyl tert-butyl alcohol	590-36-3	U	5.00	1.10	ug/L	06.05.15 21.15	U	1
Diisopropyl ether	108-20-3	**11.3**	1.00	0.0800	ug/L	06.05.15 21.15		1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.05.15 21.15	U	1
tert-Butyl alcohol	75-65-0	U	5.00	1.00	ug/L	06.05.15 21.15	U	1
tert-Amyl alcohol	75-85-4	U	5.00	1.10	ug/L	06.05.15 21.15	U	1
tert-Amyl methyl ether	994-05-8	U	1.00	0.300	ug/L	06.05.15 21.15	U	1
Ethyl tert-butyl ether	637-92-3	U	1.00	0.300	ug/L	06.05.15 21.15	U	1
tert-Butyl formate	762-75-4	U	5.00	1.00	ug/L	06.05.15 21.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	101	%	53-159	06.05.15 21.15	
4-Bromofluorobenzene	460-00-4	93	%	30-186	06.05.15 21.15	
Toluene-D8	2037-26-5	105	%	70-130	06.05.15 21.15	

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Sample Id: **12458 KMO-12** Matrix: Ground Water Date Received:06.02.15 09.30
Lab Sample Id: 508789-031 Date Collected: 05.29.15 14.07 Sample Depth: 15 ft

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: BRO % Moisture:
Analyst: CLAR Date Prep: 06.04.15 14.05
Seq Number: 969566

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	U	0.0201	0.00603	ug/L	06.04.15 23.06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	87	%	60-140	06.04.15 23.06	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.05.15 12.18
Seq Number: 969783

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	U	1.00	0.160	ug/L	06.05.15 21.39	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	06.05.15 21.39	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	06.05.15 21 39	U	1
m,p-Xylenes	179601-23-1	U	2 00	0.510	ug/L	06.05.15 21.39	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	06.05.15 21.39	U	1
Xylenes, Total	1330-20-7	U	1.00	0.200	ug/L	06.05.15 21.39	U	1
Methyl tert-butyl ether	1634-04-4	**16.5**	2.00	0.180	ug/L	06.05.15 21.39		1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	06.05.15 21.39	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.05.15 21.39	U	1
Ethyl tert-butyl alcohol	590-36-3	U	5.00	1.10	ug/L	06.05.15 21.39	U	1
Diisopropyl ether	108-20-3	**9.21**	1.00	0.0800	ug/L	06.05.15 21.39		1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.05.15 21.39	U	1
tert-Butyl alcohol	75-65-0	U	5.00	1.00	ug/L	06.05.15 21.39	U	1
tert-Amyl alcohol	75-85-4	**73.6**	5.00	1.10	ug/L	06.05.15 21.39		1
tert-Amyl methyl ether	994-05-8	U	1.00	0.300	ug/L	06.05.15 21.39	U	1
Ethyl tert-butyl ether	637-92-3	U	1.00	0.300	ug/L	06.05.15 21.39	U	1
tert-Butyl formate	762-75-4	U	5.00	1.00	ug/L	06.05.15 21.39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	100	%	53-159	06.05.15 21.39	
4-Bromofluorobenzene	460-00-4	96	%	30-186	06.05.15 21.39	
Toluene-D8	2037-26-5	104	%	70-130	06.05.15 21.39	

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Sample Id: **12458 KMO-17** Matrix: Ground Water Date Received:06.02.15 09.30
Lab Sample Id: 508789-032 Date Collected: 05.29.15 12.56 Sample Depth: 15 ft

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: BRO % Moisture:
Analyst: CLAR Date Prep: 06.04.15 14.05
Seq Number: 969566

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	**0.0142**	0.0200	0.00599	ug/L	06.04.15 23.30	J	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	101	%	60-140	06.04.15 23.30	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.05.15 12.18
Seq Number: 969783

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**31.8**	1.00	0.160	ug/L	06.05.15 22.02		1
Toluene	108-88-3	**335**	10.0	1.40	ug/L	06.08.15 21.37	D	10
Ethylbenzene	100-41-4	**282**	10.0	1.90	ug/L	06.08.15 21.37	D	10
m,p-Xylenes	179601-23-1	**462**	20.0	5.10	ug/L	06.08 15 21.37	D	10
o-Xylene	95-47-6	**132**	1.00	0.200	ug/L	06.05.15 22.02		1
Xylenes, Total	1330-20-7	**594**	1.00	0.200	ug/L	06.08.15 21.37		10
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	06.05.15 22.02	U	1
Naphthalene	91-20-3	**118**	1.00	0.220	ug/L	06.05.15 22.02		1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.05.15 22.02	U	1
Ethyl tert-butyl alcohol	590-36-3	**101**	5.00	1.10	ug/L	06.05.15 22.02		1
Diisopropyl ether	108-20-3	U	1.00	0.0800	ug/L	06.05.15 22.02	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.05.15 22.02	U	1
tert-Butyl alcohol	75-65-0	U	5.00	1.00	ug/L	06.05.15 22.02	U	1
tert-Amyl alcohol	75-85-4	**93.8**	5.00	1.10	ug/L	06.05.15 22.02		1
tert-Amyl methyl ether	994-05-8	U	1.00	0.300	ug/L	06.05.15 22.02	U	1
Ethyl tert-butyl ether	637-92-3	U	1.00	0.300	ug/L	06.05.15 22.02	U	1
tert-Butyl formate	762-75-4	U	5.00	1.00	ug/L	06.05.15 22.02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	95	%	53-159	06.05.15 22.02	
4-Bromofluorobenzene	460-00-4	97	%	30-186	06.05.15 22.02	
Toluene-D8	2037-26-5	102	%	70-130	06.05.15 22.02	

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Sample Id: **12458 KMO-18** Matrix: Ground Water Date Received:06.02.15 09.30
Lab Sample Id: 508789-033 Date Collected: 05.29.15 13.04 Sample Depth: 15 ft

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: BRO % Moisture:
Analyst: CLAR Date Prep: 06.04.15 14.05
Seq Number: 969566

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	U	0.0199	0.00597	ug/L	06.04.15 23.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	60-140	06.04.15 23.54	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.05.15 12.18
Seq Number: 969783

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	U	1.00	0.160	ug/L	06.05.15 22.26	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	06.05.15 22.26	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	06.05.15 22.26	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	06.05.15 22.26	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	06.05.15 22.26	U	1
Xylenes, Total	1330-20-7	U	1.00	0.200	ug/L	06.05.15 22.26	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	06.05.15 22.26	U	1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	06.05.15 22.26	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.05.15 22.26	U	1
Ethyl tert-butyl alcohol	590-36-3	U	5.00	1.10	ug/L	06.05.15 22.26	U	1
Diisopropyl ether	108-20-3	**3.55**	1.00	0.0800	ug/L	06.05.15 22.26		1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.05.15 22.26	U	1
tert-Butyl alcohol	75-65-0	U	5.00	1.00	ug/L	06.05.15 22.26	U	1
tert-Amyl alcohol	75-85-4	U	5.00	1.10	ug/L	06.05.15 22.26	U	1
tert-Amyl methyl ether	994-05-8	U	1.00	0.300	ug/L	06.05.15 22.26	U	1
Ethyl tert-butyl ether	637-92-3	U	1.00	0.300	ug/L	06.05.15 22.26	U	1
tert-Butyl formate	762-75-4	U	5.00	1.00	ug/L	06.05.15 22.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	94	%	53-159	06.05.15 22.26	
4-Bromofluorobenzene	460-00-4	99	%	30-186	06.05.15 22.26	
Toluene-D8	2037-26-5	104	%	70-130	06.05.15 22.26	

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Sample Id: **DUP-1** Matrix: Ground Water Date Received:06.02.15 09.30
Lab Sample Id: 508789-034 Date Collected: 05.29.15 10.13 Sample Depth: 18 ft

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: BRO % Moisture:
Analyst: CLAR Date Prep: 06.04.15 14.05
Seq Number: 969566

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	U	0.0203	0.00609	ug/L	06.05.15 00.18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	60-140	06.05.15 00.18	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.05.15 12.18
Seq Number: 969783

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**81.1**	1.00	0.160	ug/L	06.05.15 22.49		1
Toluene	108-88-3	**32.8**	1.00	0.140	ug/L	06.05.15 22.49		1
Ethylbenzene	100-41-4	**2.10**	1.00	0 190	ug/L	06.05.15 22.49		1
m,p-Xylenes	179601-23-1	**85.8**	2.00	0.510	ug/L	06.05.15 22.49		1
o-Xylene	95-47-6	**65.3**	1.00	0.200	ug/L	06.05.15 22.49		1
Xylenes, Total	1330-20-7	**151**	1.00	0.200	ug/L	06.05.15 22.49		1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	06.05.15 22.49	U	1
Naphthalene	91-20-3	**35.9**	1.00	0.220	ug/L	06.05.15 22.49		1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.05.15 22.49	U	1
Ethyl tert-butyl alcohol	590-36-3	**96.8**	5.00	1.10	ug/L	06.05.15 22.49		1
Diisopropyl ether	108-20-3	U	1.00	0.0800	ug/L	06.05.15 22.49	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.05.15 22.49	U	1
tert-Butyl alcohol	75-65-0	U	5.00	1.00	ug/L	06.05.15 22.49	U	1
tert-Amyl alcohol	75-85-4	**331**	5.00	1.10	ug/L	06.05.15 22.49		1
tert-Amyl methyl ether	994-05-8	U	1.00	0.300	ug/L	06.05.15 22.49	U	1
Ethyl tert-butyl ether	637-92-3	U	1.00	0.300	ug/L	06.05.15 22.49	U	1
tert-Butyl formate	762-75-4	U	5.00	1.00	ug/L	06.05.15 22.49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	92	%	53-159	06.05.15 22.49	
4-Bromofluorobenzene	460-00-4	95	%	30-186	06.05.15 22.49	
Toluene-D8	2037-26-5	104	%	70-130	06.05.15 22.49	

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Sample Id: **DUP-2** Matrix: Ground Water Date Received:06.02.15 09.30
Lab Sample Id: 508789-035 Date Collected: 05.29.15 10.36 Sample Depth: 20 ft

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: BRO % Moisture:
Analyst: CLAR Date Prep: 06.04.15 14.05
Seq Number: 969566

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	U	0.0204	0.00612	ug/L	06.05.15 01.06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	75	%	60-140	06.05.15 01.06	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.07.15 12.55
Seq Number: 969729

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**254**	10.0	1.60	ug/L	06.09.15 17.24	D	10
Toluene	108-88-3	**108**	1.00	0.140	ug/L	06.07.15 18.54		1
Ethylbenzene	100-41-4	**53.3**	1.00	0.190	ug/L	06.07.15 18.54		1
m,p-Xylenes	179601-23-1	**116**	2.00	0.510	ug/L	06.07.15 18.54		1
o-Xylene	95-47-6	**64.4**	1.00	0.200	ug/L	06.07.15 18.54		1
Xylenes, Total	1330-20-7	**180**	1.00	0.200	ug/L	06.07.15 18.54		1
Methyl tert-butyl ether	1634-04-4	**387**	2.00	0.180	ug/L	06.07.15 18.54		1
Naphthalene	91-20-3	**27.7**	1.00	0.220	ug/L	06.07.15 18.54		1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.07.15 18.54	U	1
Ethyl tert-butyl alcohol	590-36-3	**305**	5.00	1.10	ug/L	06.07.15 18.54		1
Diisopropyl ether	108-20-3	**71.4**	1.00	0.0800	ug/L	06.07.15 18.54		1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.07.15 18.54	U	1
tert-Butyl alcohol	75-65-0	**248**	5.00	1.00	ug/L	06.07.15 18.54		1
tert-Amyl alcohol	75-85-4	**1820**	50.0	11.0	ug/L	06.09.15 17.24	D	10
tert-Amyl methyl ether	994-05-8	**15.4**	1.00	0.300	ug/L	06.07.15 18.54		1
Ethyl tert-butyl ether	637-92-3	U	1.00	0.300	ug/L	06.07.15 18.54	U	1
tert-Butyl formate	762-75-4	U	5.00	1.00	ug/L	06.07.15 18.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	89	%	53-159	06.07.15 18.54	
4-Bromofluorobenzene	460-00-4	103	%	30-186	06.07.15 18.54	
Toluene-D8	2037-26-5	102	%	70-130	06.07.15 18.54	

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Sample Id: **Field Blank-1** Matrix: Ground Water Date Received:06.02.15 09.30
Lab Sample Id: 508789-036 Date Collected: 05.29.15 14.16

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: BRO % Moisture:
Analyst: CLAR Date Prep: 06.04.15 14.05
Seq Number: 969566

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	U	0.0201	0.00603	ug/L	06.05.15 01.30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	60-140	06.05.15 01.30	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.07.15 12.55
Seq Number: 969729

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	U	1.00	0.160	ug/L	06.07.15 16.20	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	06.07.15 16.20	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	06.07.15 16.20	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	06.07.15 16.20	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	06.07.15 16.20	U	1
Xylenes, Total	1330-20-7	U	1.00	0.200	ug/L	06.07.15 16.20	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	06.07.15 16.20	U	1
Naphthalene	91-20-3	**4.85**	1.00	0.220	ug/L	06.07.15 16.20		1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.07.15 16.20	U	1
Ethyl tert-butyl alcohol	590-36-3	U	5.00	1.10	ug/L	06.07.15 16.20	U	1
Diisopropyl ether	108-20-3	U	1.00	0.0800	ug/L	06.07.15 16.20	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.07.15 16.20	U	1
tert-Butyl alcohol	75-65-0	**15.5**	5.00	1.00	ug/L	06.07.15 16.20		1
tert-Amyl alcohol	75-85-4	U	5.00	1.10	ug/L	06.07.15 16.20	U	1
tert-Amyl methyl ether	994-05-8	U	1.00	0.300	ug/L	06.07.15 16.20	U	1
Ethyl tert-butyl ether	637-92-3	U	1.00	0.300	ug/L	06.07.15 16.20	U	1
tert-Butyl formate	762-75-4	U	5.00	1.00	ug/L	06.07.15 16.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	114	%	53-159	06.07.15 16.20	
4-Bromofluorobenzene	460-00-4	97	%	30-186	06.07.15 16.20	
Toluene-D8	2037-26-5	101	%	70-130	06.07.15 16.20	

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Sample Id: **Field Blank-2** Matrix: Ground Water Date Received:06.02.15 09.30
Lab Sample Id: 508789-037 Date Collected: 05.29.15 14.09

Analytical Method: EDB by EPA 8011 Prep Method: SW8011P
Tech: BRO % Moisture:
Analyst: CLAR Date Prep: 06.04.15 14.05
Seq Number: 969566

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
1,2-Dibromoethane	106-93-4	U	0.0200	0.00601	ug/L	06.05.15 01.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	101	%	60-140	06.05.15 01.54	

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.05.15 12.18
Seq Number: 969783

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	U	1.00	0.160	ug/L	06.05.15 15.45	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	06.05.15 15.45	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	06.05.15 15.45	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	06.05.15 15.45	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	06.05.15 15.45	U	1
Xylenes, Total	1330-20-7	U	1.00	0.200	ug/L	06.05.15 15.45	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	06.05.15 15.45	U	1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	06.05.15 15.45	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.05.15 15.45	U	1
Ethyl tert-butyl alcohol	590-36-3	U	5.00	1.10	ug/L	06.05.15 15.45	U	1
Diisopropyl ether	108-20-3	U	1.00	0.0800	ug/L	06.05.15 15.45	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.05.15 15.45	U	1
tert-Butyl alcohol	75-65-0	U	5.00	1.00	ug/L	06.05.15 15.45	U	1
tert-Amyl alcohol	75-85-4	U	5.00	1.10	ug/L	06.05.15 15.45	U	1
tert-Amyl methyl ether	994-05-8	U	1.00	0.300	ug/L	06.05.15 15.45	U	1
Ethyl tert-butyl ether	637-92-3	U	1.00	0.300	ug/L	06.05.15 15.45	U	1
tert-Butyl formate	762-75-4	U	5.00	1.00	ug/L	06.05.15 15.45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	102	%	53-159	06.05.15 15.45	
4-Bromofluorobenzene	460-00-4	95	%	30-186	06.05.15 15.45	
Toluene-D8	2037-26-5	104	%	70-130	06.05.15 15.45	

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Certificate of Analytical Results 508789

Cardno-ATC, Columbia, SC

Pantry 585

Sample Id: **Trip Blank** Matrix: Ground Water Date Received:06.02.15 09.30
Lab Sample Id: 508789-038 Date Collected: 05.29.15 08.00

Analytical Method: BTEX & Oxygenates by SW-846 8260B Prep Method: SW5030B
Tech: MWE % Moisture:
Analyst: MWE Date Prep: 06.05.15 12.18
Seq Number: 969783

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	U	1.00	0.160	ug/L	06.05.15 15.22	U	1
Toluene	108-88-3	U	1.00	0.140	ug/L	06.05.15 15.22	U	1
Ethylbenzene	100-41-4	U	1.00	0.190	ug/L	06.05.15 15.22	U	1
m,p-Xylenes	179601-23-1	U	2.00	0.510	ug/L	06.05.15 15.22	U	1
o-Xylene	95-47-6	U	1.00	0.200	ug/L	06.05.15 15.22	U	1
Xylenes, Total	1330-20-7	U	1.00	0.200	ug/L	06.05.15 15.22	U	1
Methyl tert-butyl ether	1634-04-4	U	2.00	0.180	ug/L	06.05.15 15.22	U	1
Naphthalene	91-20-3	U	1.00	0.220	ug/L	06.05.15 15.22	U	1
1,2-Dichloroethane	107-06-2	U	1.00	0.180	ug/L	06.05.15 15.22	U	1
Ethyl tert-butyl alcohol	590-36-3	U	5.00	1.10	ug/L	06.05.15 15.22	U	1
Diisopropyl ether	108-20-3	U	1.00	0.0800	ug/L	06.05.15 15.22	U	1
Ethanol	64-17-5	U	20.0	8.00	ug/L	06.05.15 15.22	U	1
tert-Butyl alcohol	75-65-0	U	5.00	1.00	ug/L	06.05.15 15.22	U	1
tert-Amyl alcohol	75-85-4	U	5.00	1.10	ug/L	06.05.15 15.22	U	1
tert-Amyl methyl ether	994-05-8	U	1.00	0.300	ug/L	06.05.15 15.22	U	1
Ethyl tert-butyl ether	637-92-3	U	1.00	0.300	ug/L	06.05.15 15.22	U	1
tert-Butyl formate	762-75-4	U	5.00	1.00	ug/L	06.05.15 15.22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,2-Dichloroethane-D4	17060-07-0	102	%	53-159	06.05.15 15.22	
4-Bromofluorobenzene	460-00-4	101	%	30-186	06.05.15 15.22	
Toluene-D8	2037-26-5	103	%	70-130	06.05.15 15.22	

QC Summary 508789

Cardno-ATC
Pantry 585

Analytical Method: EDB by EPA 8011 — Prep Method: SW8011P
Seq Number: 969441 — Matrix: Water — Date Prep: 06.03.15
MB Sample Id: 693350-1-BLK — LCS Sample Id: 693350-1-BKS — LCSD Sample Id: 693350-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,2-Dibromoethane	<0.00600	0.150	0.148	99	0.150	100	60-140	1	30	ug/L	06.03.15 15:09	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	96		97		96		60-140	%	06.03.15 15:09

Analytical Method: EDB by EPA 8011 — Prep Method: SW8011P
Seq Number: 969561 — Matrix: Water — Date Prep: 06.03.15
MB Sample Id: 693380-1-BLK — LCS Sample Id: 693380-1-BKS — LCSD Sample Id: 693380-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,2-Dibromoethane	<0 00600	0.150	0 134	89	0.133	89	60-140	1	30	ug/L	06.04.15 02:49	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	93		91		97		60-140	%	06.04.15 02:49

Analytical Method: EDB by EPA 8011 — Prep Method: SW8011P
Seq Number: 969566 — Matrix: Water — Date Prep: 06.04.15
MB Sample Id: 693445-1-BLK — LCS Sample Id: 693445-1-BKS — LCSD Sample Id: 693445-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,2-Dibromoethane	<0.00600	0 150	0.129	86	0.147	98	60-140	13	30	ug/L	06.04.15 19:29	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	102		102		103		60-140	%	06.04.15 19:29

Analytical Method: EDB by EPA 8011 — Prep Method: SW8011P
Seq Number: 969561 — Matrix: Ground Water — Date Prep: 06.03.15
Parent Sample Id: 508789-017 — MD Sample Id: 508789-017 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
1,2-Dibromoethane	<0.00633	<0.00633	0	20	ug/L	06.04.15 14:41	U

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QC Summary 508789

Cardno-ATC
Pantry 585

Analytical Method: **EDB by EPA 8011** Prep Method: SW8011P
Seq Number: 969441 Matrix: Ground Water Date Prep: 06.03.15
Parent Sample Id: 508566-005 MS Sample Id: 508566-005 S MSD Sample Id: 508566-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
1,2-Dibromoethane	<0.00613	0.153	0.160	105	0.137	89	60-140	15	30	ug/L	06.03.15 17:59	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
4-Bromofluorobenzene	100		94		60-140	%	06.03.15 17:59

Analytical Method: **BTEX & Oxygenates by SW-846 8260B** Prep Method: SW5030B
Seq Number: 969720 Matrix: Water Date Prep: 06.05.15
MB Sample Id: 693560-1-BLK LCS Sample Id: 693560-1-BKS LCSD Sample Id: 693560-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.160	50.0	47.8	96	48.9	98	80-120	2	20	ug/L	06.05.15 12:09	
Toluene	<0.140	50.0	46.4	93	48.0	96	75-120	3	20	ug/L	06.05.15 12:09	
Ethylbenzene	<0.190	50.0	46.2	92	47.6	95	75-125	3	20	ug/L	06.05.15 12:09	
m,p-Xylenes	<0.510	100	91.8	92	96.0	96	75-130	4	20	ug/L	06.05.15 12:09	
o-Xylene	<0.200	50.0	46.8	94	48.5	97	80-120	4	20	ug/L	06.05.15 12:09	
Methyl tert-butyl ether	<0.180	100	91.6	92	94.4	94	65-125	3	20	ug/L	06.05 15 12:09	
Naphthalene	<0.220	50.0	45.2	90	46.4	93	55-140	3	20	ug/L	06.05.15 12:09	
1,2-Dichloroethane	<0.180	50.0	43.1	86	44.5	89	70-130	3	20	ug/L	06.05.15 12:09	
Ethyl tert-butyl alcohol	<1.10	500	375	75	404	81	40-140	7	20	ug/L	06.05.15 12:09	
Diisopropyl ether	<0.0800	50.0	48.0	96	49.5	99	65-135	3	20	ug/L	06.05.15 12:09	
Ethanol	<8.00	2000	1980	99	1990	100	65-135	1	20	ug/L	06.05.15 12:09	
tert-Butyl alcohol	<1.00	500	429	86	464	93	65-135	8	20	ug/L	06.05.15 12:09	
tert-Amyl alcohol	<1.10	500	440	88	464	93	40-140	5	20	ug/L	06.05.15 12:09	
tert-Amyl methyl ether	<0.300	50 0	43.1	86	45.0	90	65-135	4	20	ug/L	06.05.15 12:09	
Ethyl tert-butyl ether	<0.300	50.0	45.5	91	47.8	96	65-135	5	20	ug/L	06.05.15 12:09	
tert-Butyl formate	<1.00	250	227	91	239	96	40-140	5	20	ug/L	06.05.15 12:09	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	95		91		91		53-159	%	06.05.15 12:09
4-Bromofluorobenzene	114		96		92		30-186	%	06.05.15 12:09
Toluene-D8	102		97		95		70-130	%	06.05.15 12:09

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QC Summary 508789

Cardno-ATC
Pantry 585

Analytical Method: **BTEX & Oxygenates by SW-846 8260B** Prep Method: SW5030B
Seq Number: 969728 Matrix: Water Date Prep: 06.05.15
MB Sample Id: 693567-1-BLK LCS Sample Id: 693567-1-BKS LCSD Sample Id: 693567-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.160	50.0	46.6	93	47.3	95	80-120	1	20	ug/L	06.05.15 12:12	
Toluene	<0.140	50.0	45.2	90	46.1	92	75-120	2	20	ug/L	06.05.15 12:12	
Ethylbenzene	<0.190	50.0	50.9	102	51.1	102	75-125	0	20	ug/L	06.05.15 12:12	
m,p-Xylenes	<0.510	100	104	104	106	106	75-130	2	20	ug/L	06.05.15 12:12	
o-Xylene	<0.200	50.0	47.8	96	50.0	100	80-120	4	20	ug/L	06.05.15 12:12	
Methyl tert-butyl ether	<0.180	100	98.6	99	99.4	99	65-125	1	20	ug/L	06.05.15 12:12	
Naphthalene	<0.220	50.0	47.9	96	50.3	101	55-140	5	20	ug/L	06.05.15 12:12	
1,2-Dichloroethane	<0.180	50.0	46.3	93	47.2	94	70-130	2	20	ug/L	06.05.15 12:12	
Ethyl tert-butyl alcohol	<1.10	500	440	88	445	89	40-140	1	20	ug/L	06.05.15 12:12	
Diisopropyl ether	<0.0800	50.0	42.0	84	41.4	83	65-135	1	20	ug/L	06.05.15 12:12	
Ethanol	<8.00	2000	2110	106	2070	104	65-135	2	20	ug/L	06.05.15 12:12	
tert-Butyl alcohol	<1.00	500	396	79	422	84	65-135	6	20	ug/L	06.05.15 12:12	
tert-Amyl alcohol	<1.10	500	482	96	482	96	40-140	0	20	ug/L	06.05.15 12:12	
tert-Amyl methyl ether	<0.300	50.0	51.3	103	53.1	106	65-135	3	20	ug/L	06.05.15 12:12	
Ethyl tert-butyl ether	<0.300	50.0	50.1	100	49.8	100	65-135	1	20	ug/L	06.05.15 12:12	
tert-Butyl formate	<1.00	250	240	96	241	96	40-140	0	20	ug/L	06.05.15 12:12	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	107		91		90		53-159	%	06.05.15 12:12
4-Bromofluorobenzene	98		98		97		30-186	%	06.05.15 12:12
Toluene-D8	103		100		102		70-130	%	06.05.15 12:12

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QC Summary 508789

Cardno-ATC
Pantry 585

Analytical Method: **BTEX & Oxygenates by SW-846 8260B** Prep Method: SW5030B
Seq Number: 969783 Matrix: Water Date Prep: 06.05.15
MB Sample Id: 693597-1-BLK LCS Sample Id: 693597-1-BKS LCSD Sample Id: 693597-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.160	50.0	51.6	103	54.3	109	80-120	5	20	ug/L	06.05.15 13:42	
Toluene	<0.140	50.0	49.5	99	52.0	104	75-120	5	20	ug/L	06.05.15 13:42	
Ethylbenzene	<0.190	50.0	51.4	103	55.8	112	75-125	8	20	ug/L	06.05.15 13:42	
m,p-Xylenes	<0.510	100	106	106	112	112	75-130	6	20	ug/L	06.05.15 13:42	
o-Xylene	<0.200	50.0	48.7	97	51.6	103	80-120	6	20	ug/L	06.05.15 13:42	
Methyl tert-butyl ether	<0.180	100	97.3	97	103	103	65-125	6	20	ug/L	06.05.15 13:42	
Naphthalene	<0.220	50.0	44.6	89	48.1	96	55-140	8	20	ug/L	06.05.15 13:42	
1,2-Dichloroethane	<0.180	50.0	43.3	87	45.6	91	70-130	5	20	ug/L	06.05.15 13:42	
Ethyl tert-butyl alcohol	<1.10	500	518	104	551	110	40-140	6	20	ug/L	06.05.15 13:42	
Diisopropyl ether	<0.0800	50.0	46.4	93	48.6	97	65-135	5	20	ug/L	06.05.15 13:42	
Ethanol	<8.00	2000	1980	99	2060	103	65-135	4	20	ug/L	06.05.15 13:42	
tert-Butyl alcohol	<1.00	500	588	118	620	124	65-135	5	20	ug/L	06.05.15 13:42	
tert-Amyl alcohol	<1.10	500	516	103	545	109	40-140	5	20	ug/L	06.05.15 13:42	
tert-Amyl methyl ether	<0.300	50.0	53.4	107	56.0	112	65-135	5	20	ug/L	06.05.15 13:42	
Ethyl tert-butyl ether	<0.300	50.0	53.1	106	56.3	113	65-135	6	20	ug/L	06.05.15 13:42	
tert-Butyl formate	<1.00	250	276	110	284	114	40-140	3	20	ug/L	06.05.15 13:42	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	98		85		85		53-159	%	06.05.15 13:42
4-Bromofluorobenzene	98		95		94		30-186	%	06.05.15 13:42
Toluene-D8	101		99		100		70-130	%	06.05.15 13:42

QC Summary 508789

Cardno-ATC
Pantry 585

Analytical Method: **BTEX & Oxygenates by SW-846 8260B** Prep Method: SW5030B
Seq Number: 969729 Matrix: Water Date Prep: 06.07.15
MB Sample Id: 693568-1-BLK LCS Sample Id: 693568-1-BKS LCSD Sample Id: 693568-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.160	50.0	45.1	90	45.6	91	80-120	1	20	ug/L	06.07.15 14:11	
Toluene	<0.140	50.0	44.9	90	45.5	91	75-120	1	20	ug/L	06.07.15 14:11	
Ethylbenzene	<0.190	50.0	50.6	101	50.8	102	75-125	0	20	ug/L	06.07.15 14:11	
m,p-Xylenes	<0.510	100	103	103	104	104	75-130	1	20	ug/L	06.07.15 14:11	
o-Xylene	<0.200	50.0	49.3	99	47.7	95	80-120	3	20	ug/L	06.07.15 14:11	
Methyl tert-butyl ether	<0.180	100	101	101	117	117	65-125	15	20	ug/L	06.07.15 14:11	
Naphthalene	<0.220	50.0	49.3	99	50.1	100	55-140	2	20	ug/L	06.07.15 14:11	
1,2-Dichloroethane	<0.180	50.0	46.3	93	48.1	96	70-130	4	20	ug/L	06.07.15 14:11	
Ethyl tert-butyl alcohol	<1.10	500	496	99	516	103	40-140	4	20	ug/L	06.07.15 14:11	
Diisopropyl ether	<0.0800	50.0	41.1	82	41.5	83	65-135	1	20	ug/L	06.07.15 14:11	
Ethanol	<8.00	2000	1810	91	1870	94	65-135	3	20	ug/L	06.07.15 14:11	
tert-Butyl alcohol	<1.00	500	503	101	522	104	65-135	4	20	ug/L	06.07.15 14:11	
tert-Amyl alcohol	<1.10	500	299	60	358	72	40-140	18	20	ug/L	06.07.15 14:11	
tert-Amyl methyl ether	<0.300	50.0	50.6	101	51.4	103	65-135	2	20	ug/L	06.07.15 14:11	
Ethyl tert-butyl ether	<0.300	50.0	47.3	95	49.2	98	65-135	4	20	ug/L	06.07.15 14:11	
tert-Butyl formate	<1.00	250	237	95	241	96	40-140	2	20	ug/L	06.07.15 14:11	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	91		92		93		53-159	%	06.07.15 14:11
4-Bromofluorobenzene	98		93		97		30-186	%	06.07.15 14:11
Toluene-D8	101		98		99		70-130	%	06.07.15 14:11

Analytical Method: **BTEX & Oxygenates by SW-846 8260B** Prep Method: SW5030B
Seq Number: 969801 Matrix: Water Date Prep: 06.08.15
MB Sample Id: 693603-1-BLK LCS Sample Id: 693603-1-BKS LCSD Sample Id: 693603-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.160	50.0	51.6	103	51.8	104	80-120	0	20	ug/L	06.08.15 12:33	
Toluene	<0.140	50.0	50.6	101	50.3	101	75-120	1	20	ug/L	06.08.15 12:33	
Ethylbenzene	<0.190	50.0	50.2	100	50.2	100	75-125	0	20	ug/L	06.08.15 12:33	
m,p-Xylenes	<0.510	100	101	101	99.1	99	75-130	2	20	ug/L	06.08.15 12:33	
Methyl tert-butyl ether	<0.180	100	102	102	103	103	65-125	1	20	ug/L	06.08.15 12:33	
Ethyl tert-butyl alcohol	<1.10	500	504	101	504	101	40-140	0	20	ug/L	06.08.15 12:33	
Diisopropyl ether	<0.0800	50.0	52.4	105	51.8	104	65-135	1	20	ug/L	06.08.15 12:33	
tert-Butyl alcohol	<1.00	500	562	112	574	115	65-135	2	20	ug/L	06.08.15 12:33	
tert-Amyl alcohol	<1.10	500	554	111	559	112	40-140	1	20	ug/L	06.08.15 12:33	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	96		89		89		53-159	%	06.08.15 12:33
4-Bromofluorobenzene	117		90		97		30-186	%	06.08.15 12:33
Toluene-D8	98		96		96		70-130	%	06.08.15 12:33

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Florida Testing Services, LLC

QC Summary 508789

Cardno-ATC
Pantry 585

Analytical Method: **BTEX & Oxygenates by SW-846 8260B** Prep Method: SW5030B
Seq Number: 969845 Matrix: Water Date Prep: 06.08.15
MB Sample Id: 693619-1-BLK LCS Sample Id: 693619-1-BKS LCSD Sample Id: 693619-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.160	50.0	45.8	92	49.0	98	80-120	7	20	ug/L	06.08.15 14:00	
Toluene	<0.140	50.0	45.3	91	48.6	97	75-120	7	20	ug/L	06.08.15 14:00	
Ethylbenzene	<0.190	50.0	50.4	101	53.7	107	75-125	6	20	ug/L	06.08.15 14:00	
m,p-Xylenes	<0.510	100	105	105	111	111	75-130	6	20	ug/L	06.08.15 14:00	
o-Xylene	<0.200	50.0	48.1	96	50.7	101	80-120	5	20	ug/L	06.08.15 14:00	
Methyl tert-butyl ether	<0.180	100	99.0	99	104	104	65-125	5	20	ug/L	06.08.15 14:00	
Naphthalene	<0.220	50.0	48.6	97	52.4	105	55-140	8	20	ug/L	06.08.15 14:00	
1,2-Dichloroethane	<0.180	50.0	47.0	94	49.3	99	70-130	5	20	ug/L	06.08.15 14:00	
Ethyl tert-butyl alcohol	<1.10	500	493	99	555	111	40-140	12	20	ug/L	06.08.15 14:00	
Diisopropyl ether	<0.0800	50.0	40.9	82	43.9	88	65-135	7	20	ug/L	06.08.15 14:00	
Ethanol	<8.00	2000	1860	93	2110	106	65-135	13	20	ug/L	06.08.15 14:00	
tert-Butyl alcohol	<1.00	500	503	101	505	101	65-135	0	20	ug/L	06.08.15 14:00	
tert-Amyl alcohol	<1.10	500	373	75	410	82	40-140	9	20	ug/L	06.08.15 14:00	
tert-Amyl methyl ether	<0.300	50.0	50.8	102	55.4	111	65-135	9	20	ug/L	06.08.15 14:00	
Ethyl tert-butyl ether	<0.300	50.0	48.7	97	53.0	106	65-135	8	20	ug/L	06.08.15 14:00	
tert-Butyl formate	<1.00	250	244	98	258	103	40-140	6	20	ug/L	06.08.15 14:00	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	109		91		90		53-159	%	06.08.15 14:00
4-Bromofluorobenzene	96		95		97		30-186	%	06.08.15 14:00
Toluene-D8	104		98		100		70-130	%	06.08.15 14:00

Analytical Method: **BTEX & Oxygenates by SW-846 8260B** Prep Method: SW5030B
Seq Number: 969867 Matrix: Water Date Prep: 06.09.15
MB Sample Id: 693636-1-BLK LCS Sample Id: 693636-1-BKS LCSD Sample Id: 693636-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.160	50.0	47.8	96	47.8	96	80-120	0	20	ug/L	06.09.15 10:18	
Toluene	<0.140	50.0	47.0	94	46.9	94	75-120	0	20	ug/L	06.09.15 10:18	
Ethylbenzene	<0.190	50.0	52.5	105	53.2	106	75-125	1	20	ug/L	06.09.15 10:18	
m,p-Xylenes	<0.510	100	107	107	108	108	75-130	1	20	ug/L	06.09.15 10:18	
o-Xylene	<0.200	50.0	49.3	99	50.7	101	80-120	3	20	ug/L	06.09.15 10:18	
Naphthalene	<0.220	50.0	48.4	97	48.9	98	55-140	1	20	ug/L	06.09.15 10:18	
tert-Amyl alcohol	<1.10	500	513	103	538	108	40-140	5	20	ug/L	06.09.15 10:18	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	114		95		93		53-159	%	06.09.15 10:18
4-Bromofluorobenzene	98		94		93		30-186	%	06.09.15 10:18
Toluene-D8	101		98		98		70-130	%	06.09.15 10:18

XENCO Laboratories
Florida Testing Services, LLC

QC Summary 508789

Cardno-ATC
Pantry 585

Analytical Method: **BTEX & Oxygenates by SW-846 8260B** Prep Method: SW5030B
Seq Number: 969720 Matrix: Ground Water Date Prep: 06.05.15
Parent Sample Id: 508690-030 MS Sample Id: 508690-030 S MSD Sample Id: 508690-030 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	23.8	50.0	69.0	90	68.6	90	77-118	1	20	ug/L	06.05.15 21:58	
Toluene	<0.140	50.0	47.8	96	47.3	95	65-123	1	20	ug/L	06.05.15 21:58	
Ethylbenzene	<0.190	50.0	47.4	95	46.4	93	66-127	2	20	ug/L	06.05.15 21:58	
m,p-Xylenes	<0.510	100	94.9	95	94.0	94	65-126	1	20	ug/L	06.05.15 21:58	
o-Xylene	<0.200	50.0	48.0	96	47.0	94	64-123	2	20	ug/L	06.05.15 21:58	
Methyl tert-butyl ether	70.0	100	159	89	156	86	58-141	2	20	ug/L	06.05.15 21:58	
Naphthalene	<0.220	50.0	52.2	104	53.7	107	30-148	3	20	ug/L	06.05.15 21:58	
1,2-Dichloroethane	<0.180	50.0	44.1	88	43.9	88	55-141	0	20	ug/L	06.05.15 21:58	
Ethyl tert-butyl alcohol	<1.10	500	381	76	392	78	17-136	3	20	ug/L	06.05.15 21:58	
Diisopropyl ether	<0.0800	50.0	50.0	100	49.2	98	59-148	2	20	ug/L	06.05.15 21:58	
Ethanol	<8.00	2000	2110	106	2310	116	38-162	9	20	ug/L	06.05.15 21:58	
tert-Butyl alcohol	<1.00	500	651	130	644	129	65-135	1	20	ug/L	06.05.15 21.58	
tert-Amyl alcohol	<1.10	500	490	98	510	102	40-140	4	20	ug/L	06.05.15 21:58	
tert-Amyl methyl ether	2.06	50.0	47.1	90	46.7	89	56-136	1	20	ug/L	06.05.15 21:58	
Ethyl tert-butyl ether	<0.300	50.0	47.2	94	46.5	93	66-135	1	20	ug/L	06.05.15 21:58	
tert-Butyl formate	<1.00	500	236	47	232	46	25-148	2	20	ug/L	06.05.15 21:58	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	92		92		53-159	%	06.05.15 21:58
4-Bromofluorobenzene	100		100		30-186	%	06.05.15 21:58
Toluene-D8	99		98		70-130	%	06.05.15 21.58

XENCO Laboratories
Florida Testing Services, LLC

QC Summary 508789

Cardno-ATC
Pantry 585

Analytical Method: **BTEX & Oxygenates by SW-846 8260B** Prep Method: SW5030B
Seq Number: 969728 Matrix: Ground Water Date Prep: 06.05.15
Parent Sample Id: 508789-001 MS Sample Id: 508789-001 S MSD Sample Id: 508789-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.160	50.0	48.4	97	45.3	91	77-118	7	20	ug/L	06.05.15 21:18	
Toluene	<0.140	50.0	50.0	100	46.0	92	65-123	8	20	ug/L	06.05.15 21:18	
Ethylbenzene	<0.190	50.0	49.4	99	46.9	94	66-127	5	20	ug/L	06.05.15 21:18	
m,p-Xylenes	<0.510	100	102	102	96.8	97	65-126	5	20	ug/L	06.05.15 21:18	
o-Xylene	<0.200	50.0	47.0	94	46.1	92	64-123	2	20	ug/L	06.05.15 21:18	
Methyl tert-butyl ether	<0.180	100	92.4	92	88.5	89	58-141	4	20	ug/L	06.05.15 21:18	
Naphthalene	<0.220	50.0	45.4	91	45.4	91	30-148	0	20	ug/L	06.05.15 21:18	
1,2-Dichloroethane	<0.180	50.0	42.8	86	41.1	82	55-141	4	20	ug/L	06.05.15 21:18	
Ethyl tert-butyl alcohol	<1.10	500	474	95	449	90	17-136	5	20	ug/L	06.05.15 21:18	
Diisopropyl ether	<0.0800	50.0	39.5	79	38.2	76	59-148	3	20	ug/L	06.05.15 21:18	
Ethanol	<8.00	2000	1990	100	2010	101	38-162	1	20	ug/L	06.05.15 21:18	
tert-Butyl alcohol	<1.00	500	433	87	408	82	65-135	6	20	ug/L	06.05.15 21:18	
tert-Amyl alcohol	<1.10	500	493	99	479	96	40-140	3	20	ug/L	06.05.15 21:18	
tert-Amyl methyl ether	<0.300	50.0	49.9	100	49.0	98	56-136	2	20	ug/L	06.05.15 21:18	
Ethyl tert-butyl ether	<0.300	50.0	47.4	95	46.0	92	66-135	3	20	ug/L	06.05.15 21:18	
tert-Butyl formate	<1.00	500	225	45	211	42	25-148	6	20	ug/L	06.05.15 21:18	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	86		86		53-159	%	06.05.15 21:18
4-Bromofluorobenzene	97		97		30-186	%	06.05.15 21:18
Toluene-D8	100		99		70-130	%	06.05.15 21:18

XENCO Laboratories
Florida Testing Services, LLC

QC Summary 508789

Cardno-ATC
Pantry 585

Analytical Method: **BTEX & Oxygenates by SW-846 8260B** Prep Method: SW5030B
Seq Number: 969783 Matrix: Ground Water Date Prep: 06.05.15
Parent Sample Id: 508789-017 MS Sample Id: 508789-017 S MSD Sample Id: 508789-017 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	138	50.0	45.5	0	45.8	0	77-118	1	20	ug/L	06.05.15 23:13	X
Toluene	43.0	50.0	43.2	0	42.3	0	65-123	2	20	ug/L	06.05.15 23:13	X
Ethylbenzene	36.0	50.0	44.5	17	42.9	14	66-127	4	20	ug/L	06.05.15 23:13	X
m,p-Xylenes	66.5	100	129	63	124	58	65-126	4	20	ug/L	06.05.15 23:13	X
o-Xylene	42.5	50.0	56.2	27	53.2	21	64-123	5	20	ug/L	06.05.15 23:13	X
Methyl tert-butyl ether	151	100	250	99	243	92	58-141	3	20	ug/L	06.05.15 23:13	
Naphthalene	9.94	50.0	55.7	92	54.9	90	30-148	1	20	ug/L	06.05.15 23:13	
1,2-Dichloroethane	<0.180	50.0	39.3	79	37.0	74	55-141	6	20	ug/L	06.05.15 23:13	
Ethyl tert-butyl alcohol	133	500	587	91	572	88	17-136	3	20	ug/L	06.05.15 23:13	
Diisopropyl ether	31.5	50.0	77.2	91	74.2	85	59-148	4	20	ug/L	06.05.15 23:13	
Ethanol	<8.00	2000	1670	84	1530	77	38-162	9	20	ug/L	06.05.15 23:13	
tert-Butyl alcohol	138	500	678	108	661	105	65-135	3	20	ug/L	06.05.15 23:13	
tert-Amyl alcohol	619	500	1170	110	1150	106	40-140	2	20	ug/L	06.05.15 23:13	
tert-Amyl methyl ether	4.91	50.0	54.3	99	55.3	101	56-136	2	20	ug/L	06.05.15 23:13	
Ethyl tert-butyl ether	<0.300	50.0	48.9	98	48.0	96	66-135	2	20	ug/L	06.05.15 23:13	
tert-Butyl formate	<1.00	500	250	50	248	50	25-148	1	20	ug/L	06.05.15 23:13	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	87		84		53-159	%	06.05.15 23:13
4-Bromofluorobenzene	100		96		30-186	%	06.05.15 23:13
Toluene-D8	101		100		70-130	%	06.05.15 23:13

XENCO Laboratories
Florida Testing Services, LLC

QC Summary 508789

Cardno-ATC
Pantry 585

Analytical Method: **BTEX & Oxygenates by SW-846 8260B** Prep Method: SW5030B
Seq Number: 969729 Matrix: Ground Water Date Prep: 06.07.15
Parent Sample Id: 508796-006 MS Sample Id: 508796-006 S MSD Sample Id: 508796-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.160	50.0	55.1	110	51.6	103	77-118	7	20	ug/L	06.08.15 00:33	
Toluene	5.47	50.0	60.4	110	53.6	96	65-123	12	20	ug/L	06.08.15 00:33	
Ethylbenzene	<0.190	50.0	51.9	104	48.7	97	66-127	6	20	ug/L	06.08.15 00:33	
m,p-Xylenes	2.25	100	110	108	102	100	65-126	8	20	ug/L	06.08.15 00:33	
o-Xylene	2.94	50.0	52.8	100	49.2	93	64-123	7	20	ug/L	06.08.15 00:33	
Methyl tert-butyl ether	<0.180	100	103	103	102	102	58-141	1	20	ug/L	06.08.15 00:33	
Naphthalene	5.15	50.0	52.9	96	52.1	94	30-148	2	20	ug/L	06.08.15 00:33	
1,2-Dichloroethane	<0.180	50.0	49.7	99	45.6	91	55-141	9	20	ug/L	06.08.15 00:33	
Ethyl tert-butyl alcohol	<1.10	500	549	110	538	108	17-136	2	20	ug/L	06.08.15 00:33	
Diisopropyl ether	<0.0800	50.0	44.8	90	47.7	95	59-148	6	20	ug/L	06.08.15 00:33	
Ethanol	<8.00	2000	2120	106	1740	87	38-162	20	20	ug/L	06.08.15 00:33	
tert-Butyl alcohol	<1.00	500	502	100	513	103	65-135	2	20	ug/L	06.08.15 00:33	
tert-Amyl alcohol	<1.10	500	587	117	555	111	40-140	6	20	ug/L	06.08.15 00:33	
tert-Amyl methyl ether	<0.300	50.0	57.1	114	55.4	111	56-136	3	20	ug/L	06.08.15 00:33	
Ethyl tert-butyl ether	<0.300	50.0	54.3	109	52.9	106	66-135	3	20	ug/L	06.08.15 00:33	
tert-Butyl formate	<1.00	500	238	48	226	45	25-148	5	20	ug/L	06.08.15 00:33	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	87		84		53-159	%	06.08.15 00:33
4-Bromofluorobenzene	97		100		30-186	%	06.08.15 00:33
Toluene-D8	100		99		70-130	%	06.08.15 00:33

XENCO Laboratories
Florida Testing Services, LLC

QC Summary 508789

Cardno-ATC
Pantry 585

Analytical Method: **BTEX & Oxygenates by SW-846 8260B** Prep Method: SW5030B
Seq Number: 969845 Matrix: Ground Water Date Prep: 06.08.15
Parent Sample Id: 508967-001 MS Sample Id: 508967-001 S MSD Sample Id: 508967-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	52.0	50.0	104	104	100	96	77-118	4	20	ug/L	06.08.15 22:46	
Toluene	3.60	50.0	70.2	133	53.5	100	65-123	27	20	ug/L	06.08.15 22:46	XF
Ethylbenzene	62.0	50.0	120	116	116	108	66-127	3	20	ug/L	06.08.15 22:46	
m,p-Xylenes	2.78	100	121	118	109	106	65-126	10	20	ug/L	06.08.15 22:46	
o-Xylene	3.06	50.0	54.6	103	51.0	96	64-123	7	20	ug/L	06.08.15 22:46	
Methyl tert-butyl ether	217	100	297	80	298	81	58-141	0	20	ug/L	06.08.15 22:46	
Naphthalene	64.4	50.0	115	101	119	109	30-148	3	20	ug/L	06.08.15 22:46	
1,2-Dichloroethane	0.950	50.0	43.4	85	42.6	83	55-141	2	20	ug/L	06.08.15 22:46	
Ethyl tert-butyl alcohol	47.1	500	547	100	585	108	17-136	7	20	ug/L	06.08.15 22:46	
Diisopropyl ether	10.2	50.0	56.0	92	57.0	94	59-148	2	20	ug/L	06.08.15 22:46	
Ethanol	<8.00	2000	1960	98	1900	95	38-162	3	20	ug/L	06.08.15 22:46	
tert-Butyl alcohol	429	500	820	78	846	83	65-135	3	20	ug/L	06.08.15 22:46	
tert-Amyl alcohol	119	500	536	83	574	91	40-140	7	20	ug/L	06.08.15 22:46	
tert-Amyl methyl ether	<0.300	50.0	49.4	99	50.3	101	56-136	2	20	ug/L	06.08.15 22:46	
Ethyl tert-butyl ether	<0.300	50.0	46.7	93	50.4	101	66-135	8	20	ug/L	06.08.15 22:46	
tert-Butyl formate	<1.00	500	<1.00	0	<1.00	0	25-148	NC	20	ug/L	06.08.15 22:46	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,2-Dichloroethane-D4	87		83		53-159	%	06.08.15 22:46
4-Bromofluorobenzene	97		97		30-186	%	06.08.15 22:46
Toluene-D8	96		95		70-130	%	06.08.15 22:46

XENCO LABORATORIES

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CHAIN OF CUSTODY

COC# ATL300621
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6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: Cardno - ATC
2895 West 5th North Street, Summerville, SC 29223
Results Sent to: Jessie Keeffe
Email address: jesse.keeffe@atcassociates.com
Contact Phone #: 803-223-0796 Cell#: 803-769-8797
Project Name (Site): Pantry 585
Project Number (ID): UST # 12458
Regulatory Program:

Receiver's Initials/Temp: DC / 1.3°C
Custody Seal(s): ___ Y N Lab Work Order # 508789.
P.O.# (if required):
Field Comments / Lab Precautions: ALL SAMPLES MAINTAINED ON ICE AT @ 4°C FROM TIME OF COLLECTION

Sampler(s): (signature) Braden Belding
Sampler(s): (printed) CHRIS HAMILTON BRADEN BELDING

Analysis Requested

Line No.	Sample ID #	Sample Depth (Ft)	Collection Date / Time	Matrix (See below)	Composite	Grab	No. of Containers	8260B (BTEX, MTBE, NAPH, 1,2 DCA, 1,2 DCE, 1,2 DCP)	8260B (BTEX, MTBE, NAPH, 1,2 DCA, 1,2 DCE, 1,2 DCP)	8011 (EDB)	
	Container Type:							VC	VC	VC	
	Chemical Preservation Code:							1	1	1	
1	12458 MW-PL-1	13	5-29-15 13:23	GW		X	5	2	1	2	
2	MW-PL-2		5-29-15 13:38								
3	MW-PL-3		5-29-15 13:52								
4	~~MW-1~~	~~25~~									PRODUCT
5	~~MW-2~~	~~20~~									DESTROYED
6	~~MW-3~~	~~15~~									DESTROYED
7	MW-4		5-29-15 10:04								
8	~~MW-5~~										PRODUCT
9	~~MW-6~~	~~18~~									PRODUCT
10	MW-7	15	5-29-15 14:52								

1) Relinquished By: CHRIS HAMILTON	Date / Time 6-1-15	2) Received By:	Date / Time 6/1/15 13:30
3) Relinquished By: FedEx	Date / Time	4) Received By:	Date / Time 6/2/15 9:30
5) Relinquished By:	Date / Time	6) Received By:	Date / Time

Delivered by: (Circle One)
Fed Ex / UPS / Courier / Lab Pickup / Hand / Other

Turnaround Time (business days)
TAT Starts when samples are rec'd by 2PM
X 10 Days ; ___5-7 Days; ___3 Days
___2 Days ; ___1 Day; ___Same Day

Matrix Guide: (W=Water) (DW = Drinking Water) (GW = Groundwater) (SW = Surface Water) (L = Liquid) (O = Oil) (S = Soil) (SD = Solid) (SL = Sludge) (A = Air) (C = Air Cartridge)
Chemical Preservation Codes: 1 = HCL / 2 = HNO_3 / 3 = H_2SO_4 / 4 = NaOH + $NaAsO_2$ / 5 = NaOH + ZnAc / 6 = $Na_2S_2O_3$ / 7 = $NaHSO_4$ & MeOH / 8 = DI Water & MeOH
Container Type: VC=Vial (Clear); VA =Vial (Amber); GC=Glass (Clear); GA=Glass (Amber); P=Plastic (HDPE); TB=Tedlar Bag; ES=EnCore Sampler; ZB=Ziploc Bag; O=Other

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CHAIN OF CUSTODY

COC# ATL300620
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6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: Cardno - ATC	Receiver's Initials/Temp: 1.3°C
2895 West 5th North Street, Summerville, SC 29223	Custody Seal(s): ___ Y N Lab Work Order # 300789.
Results Sent to: Jessie Keeffe	P.O.# (if required):
Email address: jesse.keeffe@atcassociates.com	Field Comments / Lab Precautions: ALL SAMPLES MAINTAINED ON ICE AT @4°C FROM TIME OF COLLECTION.
Contact Phone #: 803-223-0796 Cell#: 803-769-8797	
Project Name (Site): Pantry 585	Analysis Requested
Project Number (ID): UST # 12458	Container Type: VC VC VC
Regulatory Program:	Chemical Preservation Code: 1 - —
Sampler(s): (signature) Braden Belding	Sampler(s): (printed) CHRIS HAMILTON BRADEN BELDING

Line No.	Sample ID #	Sample Depth (Ft)	Collection Date / Time	Matrix (See below)	Composite	Grab	No. of Containers	8260B (BTEX/TBA/MTBE/1,2-DCA/EDB)	8260B (BTEX/TBA/MTBE/1,2-DCA/EDB)	8011 (EDB)	
1	12458 ~~MW-8~~	~~15~~	~~5-2~~	~~GW~~		~~X~~	~~5~~	~~2~~	~~1~~	~~2~~	PRODUCT
2	~~MW-9~~	~~17~~		GW							PRODUCT
3	~~MW-10~~										DESTROYED
4	~~MW-11~~										PRODUCT
5	MW-12	↓	5-29-15 15:02	GW			5	2	1	2	
6	MW-13	13	5-29-15 12:48								
7	MW-14	25	5-29-15 10:46								
8	MW-15	↓	5-29-15 12:28								
9	MW-16	20	5-29-15 12:21								
10	MW-17	↓	5-29-15 10:25	↓		↓	↓	↓	↓	↓	

1) Relinquished By: CHRIS HAMILTON — Date / Time 6-1-15	2) Received By: [signature] — Date / Time 6/1/15 1350	Delivered by: (Circle One) Fed Ex / UPS / Courier / Lab Pickup / Hand / Other
3) Relinquished By: [signature] — Date / Time	4) Received By: [signature] 6/2/15 — Date / Time 9:30	Turnaround Time (business days) TAT Starts when samples are rec'd by 2PM
5) Relinquished By: — Date / Time	6) Received By: — Date / Time	X 10 Days ; ___5-7 Days; ___3 Days ___2 Days ; ___1 Day; ___Same Day

Matrix Guide: (W=Water) (DW = Drinking Water) (GW = Groundwater) (SW = Surface Water) (L = Liquid) (O = Oil) (S = Soil) (SD = Solid) (SL = Sludge) (A = Air) (C = Air Cartridge)
Chemical Preservation Codes: 1 = HCL / 2 = HNO_3 / 3 = H_2SO_4 / 4 = NaOH + $NaAsO_2$ / 5 = NaOH + ZnAc / 6 = $Na_2S_2O_3$ / 7 = $NaHSO_4$ & MeOH / 8 = DI Water & MeOH
Container Type: VC=Vial (Clear); VA =Vial (Amber); GC=Glass (Clear); GA=Glass (Amber); P=Plastic (HDPE); TB=Tedlar Bag; ES=EnCore Sampler; ZB=Ziploc Bag; O=Other

XENCO LABORATORIES
CHAIN OF CUSTODY

COC# ATL300618
Page 3 of 5

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: Cardno - ATC
2895 West 5th North Street, Summerville, SC 29223
Results Sent to: Jessie Keeffe
Email address: jesse.keeffe@atcassociates.com
Contact Phone #: 803-223-0796 Cell#: 803-769-8797
Project Name (Site): Pantry 585
Project Number (ID): UST # 12458
Regulatory Program:

Receiver's Initials/Temp: A / 1.3°C
Custody Seal(s): ___ Y N Lab Work Order # 508789
P.O.# (if required):
Field Comments / Lab Precautions: ALL SAMPLES MAINTAINED ON ICE AT @4°C FROM TIME OF COLLECTION

Sampler(s): (signature) Braden Belding
Sampler(s): (printed) CHRIS HAMILTON, BRADEN BELDING

Analysis Requested

Line No.	Sample ID #	Sample Depth (Ft)	Collection Date / Time	Matrix (See below)	Composite	Grab	No. of Containers	8260B	8260B	8011
Container Type:								VC	VC	VC
Chemical Preservation Code:								1	—	—
1	12458 MW-18D	80	5-28-15 16:15	GW		X	5	2	1	2
2	MW-19D	48	5-29-15 08:12							
3	MW-20D	47	5-28-15 17:18							
4	MW-21D		5-28-15 16:49							
5	MW-22D		5-29-15 08:40							
6	MW-23	18	5-29-15 10:33							
7	MW-24	20.0	5-29-15 11:05							
8	MW-25		5-29-15 10:10							
9	MW-26		5-29-15 09:00							
10	MW-27	21	5-29-15 09:22							

1) Relinquished By: CHRIS HAMILTON	Date / Time 6-1-15	2) Received By:	Date / Time 6/1/15 / 3:30	Delivered by: (Circle One) Fed Ex / UPS / Courier / Lab Pickup / Hand / Other
3) Relinquished By: FedEx	Date / Time	4) Received By:	Date / Time coolers 9:3	Turnaround Time (business days) TAT Starts when samples are rec'd by 2PM
5) Relinquished By:	Date / Time	6) Received By:	Date / Time	X 10 Days ; ___5-7 Days; ___3 Days ___2 Days ; ___1 Day; ___Same Day

Matrix Guide: (W=Water) (DW = Drinking Water) (GW = Groundwater) (SW = Surface Water) (L = Liquid) (O = Oil) (S = Soil) (SD = Solid) (SL = Sludge) (A = Air) (C = Air Cartridge)
Chemical Preservation Codes: 1 = HCL / 2 = HNO_3 / 3 = H_2SO_4 / 4 = NaOH + $NaAsO_2$ / 5 = NaOH + ZnAc / 6 = $Na_2S_2O_3$ / 7 = $NaHSO_4$ & MeOH / 8 = DI Water & MeOH
Container Type: VC=Vial (Clear); VA =Vial (Amber); GC=Glass (Clear); GA=Glass (Amber); P=Plastic (HDPE); TB=Tedlar Bag; ES=EnCore Sampler; ZB=Ziploc Bag; O=Other

XENCO LABORATORIES
CHAIN OF CUSTODY

COC# ATL300617
Page 4 of 5

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: Cardno - ATC
2895 West 5th North Street, Summerville, SC 29223
Results Sent to: Jessie Keeffe
Email address: jesse.keeffe@atcassociates.com
Contact Phone #: 803-223-0796 Cell#: 803-769-8797
Project Name (Site): Pantry 585
Project Number (ID): UST # 12458
Regulatory Program:

Receiver's Initials/Temp: MY 1.3°C
Custody Seal(s): ___ Y N Lab Work Order # 508789
P.O.# (if required):
Field Comments / Lab Precautions: ALL SAMPLES MAINTAINED ON ICE AT @ 4°C FROM TIME OF COLLECTION

Sampler(s): (signature) Braden Belding
Sampler(s): (printed) CHRIS HAMILTON BRADEN BELDING

Analysis Requested

Line No.	Sample ID #	Sample Depth (Ft)	Collection Date / Time	Matrix (See below)	Composite	Grab	No. of Containers	8260B	8260B	8011	
Container Type:								VC	VC	VC	
Chemical Preservation Code:								1	–	–	
1	12458 MW-28	20	5-29-15 09:42	GW		X	5	2	1	2	
2	~~MW-30~~										PRODUCT
3	~~MW-31~~										DESTROYED
4	DMW-1	78	5-28-15 14:29								
5	DMW-2	80	5-28-15 12:57								
6	DMW-3	112	5-28-15 12:14								
7	KMO-3	14	5-29-15 13:46								
8	KMO-5	14	13:24								
9	KMO-6	15	14:15								
10	KMO-10	15	14:38								

1) Relinquished By: CHRIS HAMILTON	Date / Time 6-1-15 /	2) Received By:	Date / Time 6/1/15 13:50
3) Relinquished By: FedEx	Date / Time	4) Received By:	Date / Time 6/2/15 9:30
5) Relinquished By:	Date / Time	6) Received By:	Date / Time

Delivered by: (Circle One)
Fed Ex / UPS / Courier / Lab Pickup / Hand / Other

Turnaround Time (business days)
TAT Starts when samples are rec'd by 2PM
X 10 Days ; ___5-7 Days; ___3 Days
___2 Days ; ___1 Day; ___Same Day

Matrix Guide: (W=Water) (DW = Drinking Water) (GW = Groundwater) (SW = Surface Water) (L = Liquid) (O = Oil) (S = Soil) (SD = Solid) (SL = Sludge) (A = Air) (C = Air Cartridge)
Chemical Preservation Codes: 1 = HCL / 2 = HNO_3 / 3 = H_2SO_4 / 4 = NaOH + $NaAsO_2$ / 5 = NaOH + ZnAc / 6 = $Na_2S_2O_3$ / 7 = $NaHSO_4$ & MeOH / 8 = DI Water & MeOH
Container Type: VC=Vial (Clear); VA =Vial (Amber); GC=Glass (Clear); GA=Glass (Amber); P=Plastic (HDPE); TB=Tedlar Bag; ES=EnCore Sampler; ZB=Ziploc Bag; O=Other

WO#508789.

COC# ATL300616

Page 5 of 5

XENCO LABORATORIES
CHAIN OF CUSTODY

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: Cardno - ATC
2895 West 5th North Street, Summerville, SC 29223
Results Sent to: Jessie Keeffe
Email address: jesse.keeffe@atcassociates.com
Contact Phone #: 803-223-0796 Cell#: 803-769-8797
Project Name (Site): Pantry 585
Project Number (ID): UST # 12458
Regulatory Program:

Receiver's Initials/Temp: 1.3°C
Custody Seal(s): Y N Lab Work Order #
P.O.# (if required):
Field Comments / Lab Precautions: ALL SAMPLES MAINTAINED ON ICE AT @ 4°C FROM TIME OF COLLECTION

Sampler(s): (signature) Braden Belding
Sampler(s): (printed) CHRIS HAMILTON, BRADEN BELDING

Analysis Requested

Line No.	Sample ID #	Sample Depth (Ft)	Collection Date / Time	Matrix (See below)	Composite	Grab	No. of Containers	8260B	8260B	8011
							Container Type:	VC	VC	VC
							Chemical Preservation Code:	1	—	—
1	KMO-11	12	5-29-15 14:23	GW		X	5	2	1	2
2	KMO-12	5	14:07							
3	KMO-17		12:56							
4	KMO-18		13:04							
5	DUP-1	18	10:13							
6	DUP-2	20	10:36							
7	~~DUP 3~~									NOT NEEDED
8	FIELD BLANK-1	NA	5-28-15 14:16	FB						
9	FIELD BLANK-2	NA	5-29-15 14:09	FB						
10	TRIP BLANK	NA	5-28-15 08:00	TB			4	4		

1) Relinquished By: CHRIS HAMILTON	Date / Time 6-1-15	2) Received By:	Date / Time 6/1/15 13:50
3) Relinquished By:	Date / Time	4) Received By:	Date / Time 6/2/15 9:30
5) Relinquished By:	Date / Time	6) Received By:	Date / Time

Delivered by: (Circle One)
Fed Ex / UPS / Courier / Lab Pickup / Hand / Other

Turnaround Time (business days)
TAT Starts when samples are rec'd by 2PM
X 10 Days ; ___5-7 Days; ___3 Days
___2 Days ; ___1 Day; ___Same Day

Matrix Guide: (W=Water) (DW = Drinking Water) (GW = Groundwater) (SW = Surface Water) (L = Liquid) (O = Oil) (S = Soil) (SD = Solid) (SL = Sludge) (A = Air) (C = Air Cartridge)
Chemical Preservation Codes: 1 = HCL / 2 = HNO_3 / 3 = H_2SO_4 / 4 = NaOH + $NaAsO_2$ / 5 = NaOH + ZnAc / 6 = $Na_2S_2O_3$ / 7 = $NaHSO_4$ & MeOH / 8 = DI Water & MeOH
Container Type: VC=Vial (Clear); VA =Vial (Amber); GC=Glass (Clear); GA=Glass (Amber); P=Plastic (HDPE); TB=Tedlar Bag; ES=EnCore Sampler; ZB=Ziploc Bag; O=Other

ORIGIN ID:USCA (863) 646-8528
XENCO LAB/LAKELAND

5675 NEW TAMPA HWY STE 1

LAKELAND, FL 338153185
UNITED STATES US

SHIP DATE: 01JUN1
ACTWGT: 33.0 LB
CAD: /GFFE1601
DIMS: 26x14x14 IN

BILL SENDER

TO RECEIVING DEPARTENT
XENCO LAB
6017 FINANCIAL DR

NORCROSS GA 3071
(770) 449-8800

FedEx Express

2 of 2
MPS# 0681 7807 4577 2455
Mstr# 8047 7449 4080

37 LIYA

TUE - 02 JUN AA
STANDARD OVERNIGHT
0215

30071
GA-US -ATL

CUSTODY SEAL

Collecting Sample (Signature)

Collected

Time Collected

Sample No.

XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In

XENCO Laboratories
Florida Testing Services, LLC

Client: Cardno-ATC

Date/ Time Received: 06/02/2015 09:30:00 AM

Work Order #: 508789

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : #61

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	1.3	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?	N/A	
#6 *Custody Seals Signed and dated?	Yes	
#7 *Chain of Custody present?	Yes	
#8 Sample instructions complete on Chain of Custody?	Yes	
#9 Any missing/extra samples?	No	
#10 Chain of Custody signed when relinquished/ received?	Yes	
#11 Chain of Custody agrees with sample label(s)?	Yes	
#12 Container label(s) legible and intact?	Yes	
#13 Sample matrix/ properties agree with Chain of Custody?	Yes	
#14 Samples in proper container/ bottle?	Yes	
#15 Samples properly preserved?	Yes	
#16 Sample container(s) intact?	Yes	
#17 Sufficient sample amount for indicated test(s)?	Yes	
#18 All samples received within hold time?	Yes	
#19 Subcontract of sample(s)?	No	
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes	
#21 <2 for all samples preserved with HNO3,HCL, H2SO4? Except for samples for the analysis of HEM or HEM-SGT which are verified by the analysts.	N/A	
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	N/A	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst: PH Device/Lot#:

Checklist completed by: Dario Lagunas Date: 06/02/2015

Checklist reviewed by: J. Derek Rounsley Date: 06/02/2015

APPENDIX C

DISPOSAL CERTIFICATE

Cardno
Shaping the Future

Cardno

7499 Parklane Road
Suite 112
Columbia, SC 29223

Phone **+1 803 735 0003**
Fax +1 803 929 6065
www.cardno.com

www.cardno.com

June 1, 2015

Re: Treatment of Purge Water
Former Pantry #585 / 81 Food Mart
Anderson, South Carolina
UST Permit #12458

To Whom It May Concern:

Cardno submits this letter as certification of treatment of purge water at the **Former Pantry #585 / 81 Food Mart** facility complied with the adsorption use of portable activated carbon units for the treatment of small volumes of suspected petroleum hydrocarbon contaminated groundwater. Water is treated on site with pour through\up flow treatment container filled with activated carbon. The carbon will be replaced or reactivated at 8,000 gallons of treated water or once total organic compound exceed manufacture conditions of 3.5 pounds. Data concerning gallons treated or adsorption capacity is available upon request. Should you have any questions or require additional information, please contact me at 735-0003.

The water obtained from development/sampling the groundwater monitoring wells at the site was treated with activated carbon. A total of **269.75** gallons of water was treated at the site on May 28 and 29, 2015.

No free product was detected in any of the well water to be treated.

Cardno maintains records of treated water.

The carbon will be replaced or reactivated every 8,000 gallons.

Petroleum hydrocarbons analytical results from the site wells report Benzene concentrations at 7820 parts per billion (ppb) or less and total BTEX concentrations at 33270 ppb or less.

Recommendations issued by SCDHEC and the manufacturer have and will be followed.

Development/sampling purge water from all wells is mixed before treatment with the activated carbon.

Cardno

Chris Hamilton
Staff Scientist

APPENDIX D

SCDHEC QAPP APPENDIX K

Contractor Verification Checklist

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

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

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

Explanation for missing and incomplete information

The directive and QAPP for this site involves the work done for a Groundwater Monitoring Report. Any information that was not required or approved in the QAPP for the scope of work was not included.

APPENDIX E

SCDHEC QAPP APPENDIX M

UST Permit: 12458

Facility Name: former Pantry 585

Date	Current Status	Deficiency	Corrective Action Taken	Date Deficiency Resolved
7/15/2015	Under analysis by laboratory	Significant exceedance of 20% RPD criterion between sample 12458 MW-25 and its duplicate	Matter referred to Xenco laboratory after internal Cardno review of confirmation of appropriate sampling and labeling procedure	To be determined
7/15/2015	Under analysis by laboratory	Significant exceedance of 20% RPD criterion between sample 12458 MW-23 and its duplicate	Matter referred to Xenco laboratory after internal Cardno review of confirmation of appropriate sampling and labeling procedure	To be determined
7/15/2015	Under analysis by laboratory	Detection of two constituents (naphthalene and tert-butyl alcohol) in field blank collected on 5/28/2015	Internal review of Cardno procedure for blank sample collection, preservation and labeling. Matter referred to laboratory.	To be determined

Comments:

UST
AUG 2 5 2015
PROGRAM

Cardno
Shaping the Future

Cardno ATC

7499 Parklane Road
Suite 112
Columbia, SC 29223

Phone +1 803 735 0003
Fax +1 803 929-6065

www.cardno.com

UST
54 Kecb
DOCKETING

August 21, 2015

Mr. Read S. Miner, P.G., Hydrogeologist
South Carolina Department of Health and Environmental Control
Corrective Action Section
Bureau of Land and Waste Management
UST Management Division
2600 Bull Street
Columbia, South Carolina 29201

RE: Groundwater Monitoring Report
Former Pantry #585 / 81 Food Mart
1502 East Greenville Highway, Anderson, South Carolina
Anderson County
UST Permit ID #12458; CA #50082
Cardno ATC Project No. DHEC058501

Dear Mr. Miner:

Cardno, on behalf of The Pantry Inc., is submitting a revised Appendix M: Site Status Update document. Please replace the current Appendix M document of the report. The Appendix M is presented in the report in Appendix E of the **Former Pantry #585 / 81 Food Mart**.

If you have any questions or require additional information, please contact me at the undersigned.

Sincerely,
Cardno

Jesse L. Keeffe, Jr.

Jesse L. Keeffe, Jr., P.G. #2308
Project Manager
for Cardno ATC
Direct Line +1 866 735 0003 ext. 2010
Email: jesse.keeffe@cardno.com

cc: Mr. Brent Puzak, Environmental Director, Circle K Stores, Inc.

Enc: Revised Appendix M document

UST Permit: 12458

Facility Name: Former 81 Food Mart/former Pantry 585

Date	Current Status	Deficiency	Corrective Action Taken	Date Deficiency Resolved
7/15/15	Identified and reported by laboratory	Substantial variances from the 20% RPD criterion	The laboratory found no discrepancies but concluded that it was a possibility that lab labeling in the lab could have happened. However, the lab vials from this job could not be found due to the time between analyzation and request for review	7/28/15
7/15/15	Identified and reported by laboratory	The field blank collected on May 28, 2015 contained detectable concentrations of TBA and naphthalene	The laboratory confirmed that TBA was present in the field blank sample but naphthalene was a false positive	7/28/15

Comments:

ATC ASSOCIATES INC.

RECEIVED
FEB 08 2008
UNDERGROUND STORAGE TANK PROGRAM

February 8, 2008

Mr. Art Shrader
SCDHEC-UST Program
2600 Bull Street
Columbia, SC 29201

Re: Groundwater Assessment Proposal
Former Pantry 585
1502 East Greenville Street, Anderson, SC
Site 12458

Dear Mr. Shrader:

Please find enclosed the Groundwater Assessment proposal for the former Pantry 585 facility per your January 11, 2008 request. If you have any questions please do not hesitate to call.

Best regards,

ATC Associates, Inc.

Fred Lyke, PG
Branch Manager

UST PROGRAM
DOCKETING # 6tech

DHEC
PROMOTE PROTECT PROSPER

Tier II Assessment Plan
Underground Storage Tank Program

RECEIVED
OCT 08 2008
UNDERGROUND STORAGE TANK PROGRAM

UST Permit #: 12458 County: Anderson Facility Name: Former Pantry 585
Facility Address: 1502 East Greenville St City: Anderson State: SC Zipcode:
Responsible Party: The Pantry Inc Address: P.O. Box 1410
City: Sanford State: NC Zipcode: 27331
No. USTs: 3 Removed? 4/30/91 (date: MM/DD/YYYY) Replaced? (date: MM/DD/YYYY)

Current use of facility/property:
Convenience Store

Current property owner name: Address:
City: State: Zipcode:

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.

A geoprobe will be used to collect groundwater samples for lab analysis to determine proper placement of shallow wells and intermediate wells. 2 boring to 20 are proposed and 7 borings to 45' are proposed, a total of 9 groundwater screening samples are proposed.

Permanent Monitoring Wells (estimate number and total completed depth)

# of shallow wells: 2 shallow at 20' each Total depth: Shallow 40' total,
# of deep wells: 4 intermediate @ 45' each; 1 deep @ 130' Total depth: 310'

Comments, if warranted:
4 - Type III wells will be installed to delineate impact to sand unit identified at 40' depth. Wells will be cased to a depth of 40' and extend to 45' with 5' screen.
1 - Type IV well will be installed to a total depth of 130' with 5' screen

Analyses

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

Field Screening: BTEX, Naph, MTBE - 9 samples
Soil Samples: None
GW: 7 samples from new wells and 8 existing wells for BTEX + N + MTBE, lead, EDB
Nitrate, Sulfate, Ferrous Iron, Methane, Dissolved Oxygen, 1,2 DCA

Implementation Schedule *(Use MM/DD/YYYY format - Example 01/23/2004)*

Start up date: 03/01/2008 (MM/DD/YYYY) Completion date: 06/01/2008 (MM/DD/YYYY)
Report submittal date: 06/15/2008 (MM/DD/YYYY)

UST Permit #: 12458 Facility Name: Former Pantry 585

RECEIVED
FEB 08 2006
UNDERGROUND STORAGE TANK PROGRAM

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	Legend with facility name and address, UST Permit number, date, and a bar scale
Location of property lines	Streets or highways (indicate names and numbers)
Location of buildings	Identification of located buildings
Paved areas on or adjacent to site	Location of all present and former ASTs and USTs
Previous soil sampling locations	Underground and above ground utilities on or adjacent to site
Previous monitoring well locations	Location of any other potential receptor

Aquifer Characterization

Pump test: ☐ Slug tests: ☑ (check one and provide explanation for choice)

Slugtests are proposed since shallow aquifer has had slugtests performed.

Small Volume Disposal Type and Method

Soil:

drummed for proper disposal

Purge water:

drummed for proper disposal

Additional comments:

- Two EPR events are proposed for FP removal from MW-1 & MW-5
- large number of soil drums is due to mud rotary method of drilling needed to install intermediate wells. Cost for disposal is requested even if wells are clean since mud generated during drilling activities is not spreadable onsite of clean.

D H E C

PROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

RECEIVED

FEB 0 6 2008

UNDERGROUND STORAGE TANK PROGRAM

ASSESSMENT COMPONENT COST AGREEMENT

SOUTH CAROLINA

Department of Health and Environmental Control

Underground Storage Tank Program

State Underground Petroleum Environmental Response Bank Account

Facility Name Former Pantry 585

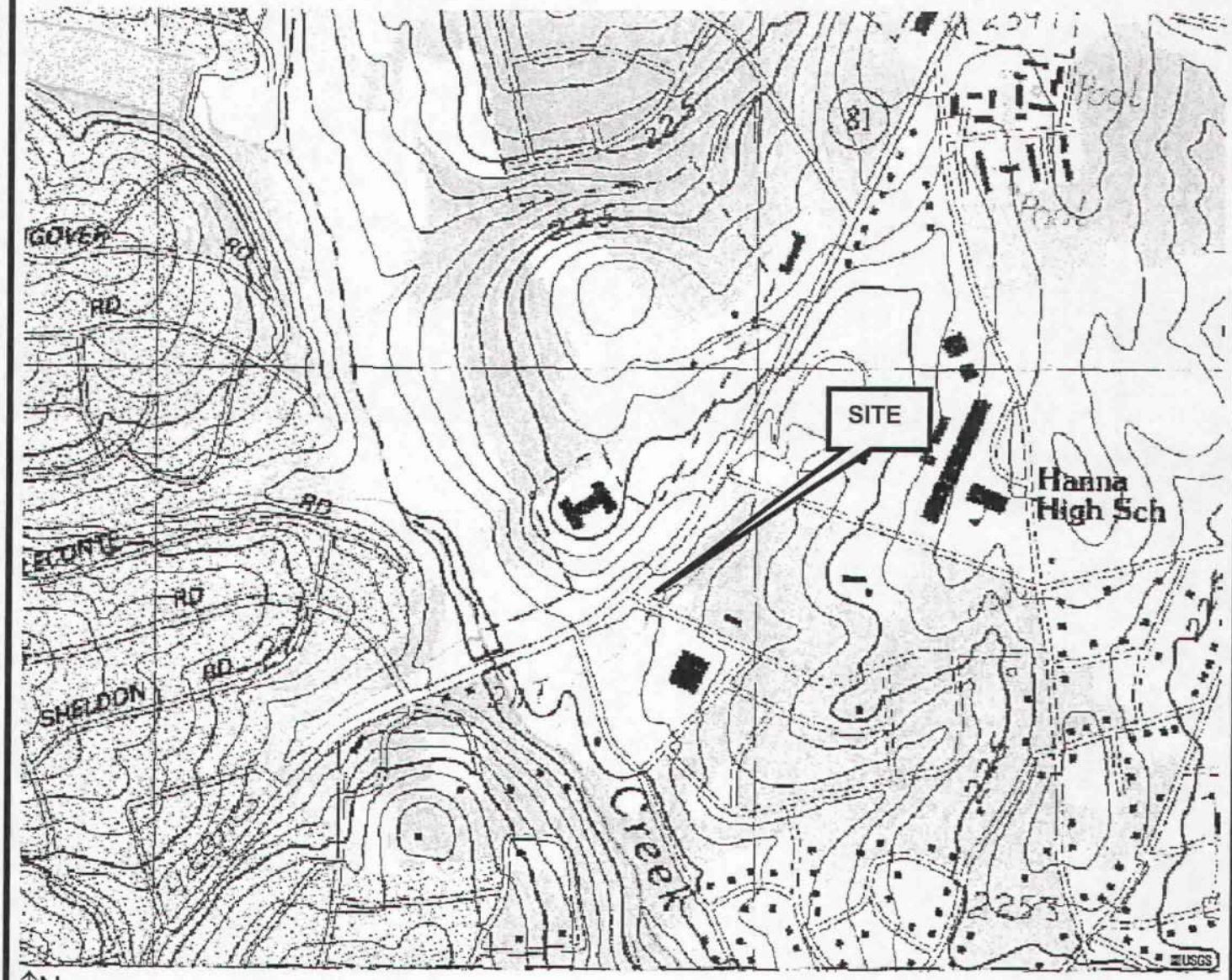
UST Permit # 12458 **Cost Agreement #**

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL	
1. Plan*					
A. Plan Preparation	1	x	$100.00	100	$0.00
B. Tax Map		x	$50.00		$0.00
2. Receptor Survey *		x	$500.00		$0.00
3. Comprehensive Survey	1	x	$1,000.00		$0.00
4. Mob/Demob					
A. Equipment 6,9,9,9,17,23,23	7	x	$550.00	3850	$0.00
B. Personnel 6,9,9,9,10,17,23,23	8	each x	$275.00	2200	$0.00
C. Adverse Train Vehicle		x	$550.00		$0.00
5. Soil Borings (hand auger)*		feet x	$14.00		$0.00
6. Soil Borings (drilled) & Field Screening					
A. Standard	355	feet x	$17.00	6035	$0.00
B. Alternative, on-site		feet x	$12.50		$0.00
C. Fractured Rock		feet x	$27.50		$0.00
7. Soil Leachability Model		each x	$200.00		$0.00
8. Abandonment*	355	feet x	$5.00	1775.	$0.00
9. Well Installation*					
A. Water Table (hand auger)		feet x	$20.00		$0.00
B. Water Table (drilled) Hollow stem auger	20	feet x	$38.00	760	$0.00
C. Telescoping mud rotary rig &	310	feet x	$58.00	17980	$0.00
D. Rock Drilling air rig		feet x	$58.00		$0.00
E. 2" Rock Coring		feet x	$44.10		$0.00
F. 4" Rock Coring		feet x	$50.40		$0.00
G. multi sampling port/screen		feet x	$47.20		$0.00
10. Groundwater Sample Collection					
A.Groundwater	15	samples x	$55.00	825	$0.00
B. Air Vapor		samples x	$90.00		$0.00
C. Water Supply		samples x	$25.00		$0.00
D. Groundwater No Purge		samples x	$35.00		$0.00
E. Gauge Well only		per well x	$20.00		$0.00
F. Sample Below Product		samples x	$50.00		$0.00
G. Passive Diffusion Bag		each x	$40.00		$0.00
11. Analyses-Groundwater (see Analytical Methodology for site-specific analyses)					
A. BTEX+Naphth.+MTBE	24	samples x	$100.00	2400	$0.00
B. Rush BTEX analysis		samples x	$120.00		$0.00
D. PAH's		samples x	$120.00		$0.00
E. Lead	15	samples x	$20.00	300	$0.00
F. EDB	15	samples x	$55.00	825	$0.00
G. 8 RCRA Metals		samples x	$140.00		$0.00
H.TPH (9070)		samples x	$55.00		$0.00
J. BOD		samples x	$40.00		$0.00
K. Nitrate	15	samples x	$20.00	300	$0.00
L. Sulfate	15	samples x	$20.00	300	$0.00
M. Ferrous Iron	15	samples x	$20.00	300	$0.00
N. Methane	15	samples x	$110.00	1650	$0.00
O. Organic Lead		samples x	$100.00		$0.00
P. 8 Oxygenates	15	samples x	$85.00	1275	$0.00
AA. Filtered Lead		samples x	$46.00		$0.00
BB. 1,2-DCA	15	samples x	$10.75	161	$0.00

11. Analyses-Soil					
Q. BTEX + Naphth.		samples x	$100.00		$0.00
R. PAH's		samples x	$120.00		$0.00
S. 8 RCRA Metals		samples x	$150.00		$0.00
T. TPH (9071)		samples x	$60.00		$0.00
U. TPH (3550B/8015B)		samples x	$65.00		$0.00
V. TPH (5030B/8015B)		samples x	$65.00		$0.00
W. Grain size/hydrometer		samples x	$75.00		$0.00
X. Total Organic Carbon		samples x	$35.00		$0.00
11. Analyses-Air					
Y. BTEX + Naphthalene		samples x	$247.50		$0.00
Z. Hydrocarbon Fuel Identification		samples x	$620.00		$0.00
12. Aquifer Characterization*					
A. Pumping Test		hours x	$120.00		$0.00
B. Slug Test*	3	tests x	$150.00	450	$0.00
C. Fractured Rock		tests x	$500.00		$0.00
13. Free Product Recovery Rate Test*		tests x	$120.00		$0.00
14. Fate/Transport Modeling					
A. Mathematical Model		each x	$300.00		$0.00
B. Computer Model		each x	$500.00		$0.00
15. Risk Evaluation					
A. Tier I Risk Evaluation		x	$301.00		$0.00
B. Tier II Risk Evaluation		x	$500.00		$0.00
16. Subsequent Survey*		x	$260.00		$0.00
17. Disposal*					
A. Wastewater					
1. Purging/Sampling	4	drums x	$90.00	360	$0.00
2. Pumping Test/EFR		gallons x	$0.60		$0.00
B. Free Product		drums x	$110.00		$0.00
C. Soil (Treatment/Disposal)	55	drum/ton x	$50.00	2750	$0.00
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 3667 form)					
23. EFR					
A. 8-hour Event*	2	each x	$3,000.00	6000	$0.00
B. Additional Hour		per hour x	$204.00		$0.00
C. Off-gas treatment		per hour x	$35.00		$0.00
24. Granulated Activated Carbon (GAC) filter system installation & service:					
A. New GAC System Installation*		each x	$2,500.00		$0.00
B. Refurbished GAC Sys. Install*		each x	$850.00		$0.00
C. Filter replacement/removal*		each x	$450.00		$0.00
D. System removal, cleaning, & refurbishment*		each x	$450.00		$0.00
E. GAC System housing		each x	$450.00		$0.00
F. In-line particulate filter		each x	$140.00		$0.00
G. Additional piping & fittings		feet x	$4.00		$0.00
25. Well Repair					
A. Additional Copies of Report		each x	$25.00		$0.00
B. Repair 2x2 MW pad		each x	$100.00		$0.00
C. Repair 4x4 MW pad		each x	$150.00		$0.00
D. Repair well vault		each x	$225.00		$0.00
E. Replace well cover & 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 and Coordination	15%	x	$0.00	7589	$0.00
TOTAL				58,185	$0.00

*The appropriate mobilization cost can be added to complete these tasks, as necessary

RECEIVED
FEB 08 2008
UNDERGROUND STORAGE TANK PROGRAM



↑N

Figure 1: Site Location Map
81 Food Mart
(Former Pantry #585)
1502 East Greenville Street
Anderson, South Carolina
UST Permit #12458

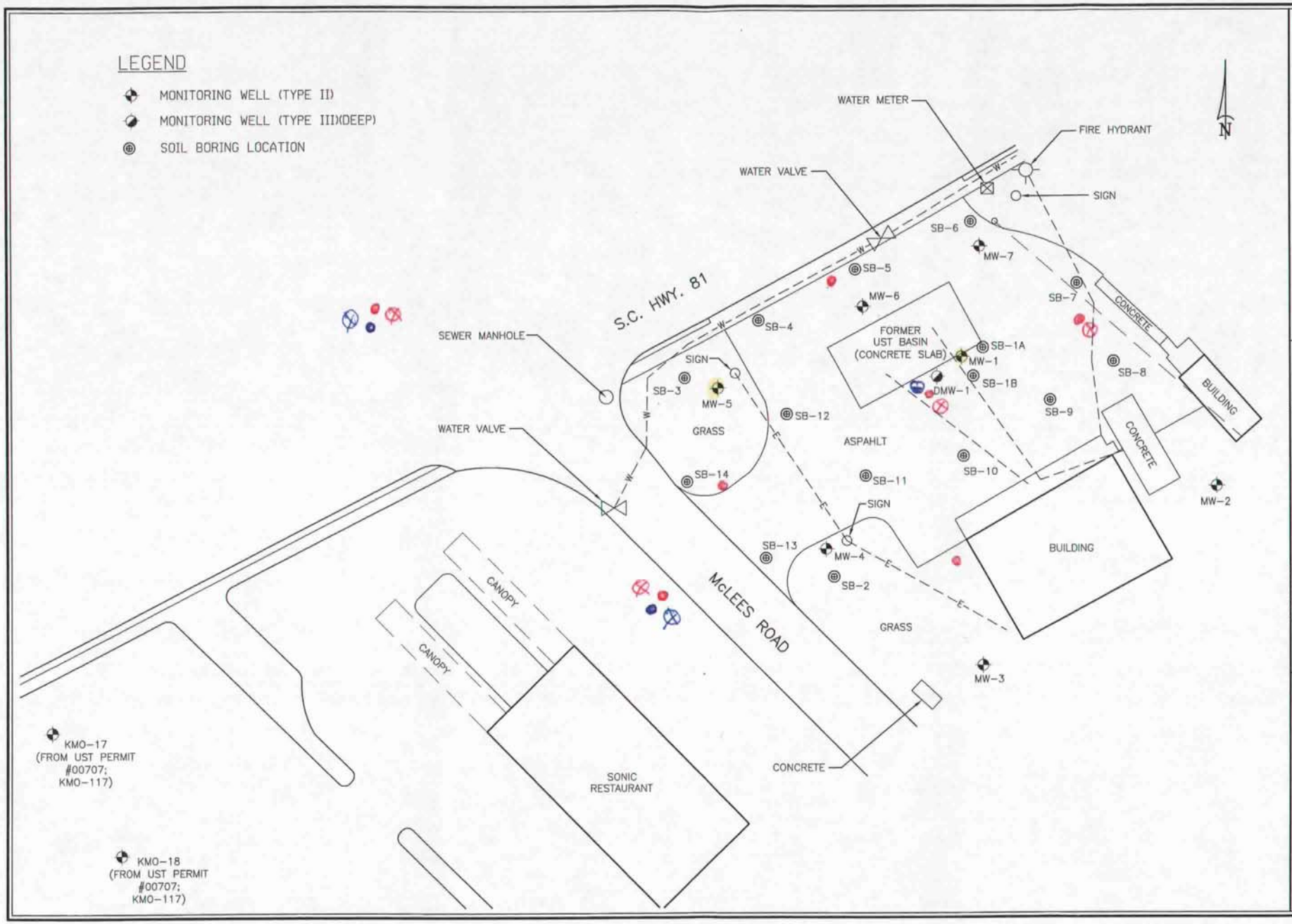
ATC ASSOCIATES INC.

400 Northeast Drive, Unit Q Phone (803) 735-0003
Columbia, South Carolina Fax (803) 735-0443

ATC PROJECT No: 14.25384.0585

SOURCE: USGS Topographic Map Anderson, SC Quadrangle

1"= 885'



ATC ASSOCIATES INC.
Columbia, South Carolina 29203 (803) 735-0003 FAX (803) 735-0443

SCALE	DATE	PROJECT NO.
1" = 30'	06-19-2007	14.25384.0585

REV. BY	PREP. BY	TYPE CODE	CAD FILE
	JK		1253237.dwg

TITLE FIGURE 2
SITE MAP
FORMER PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

UST PERMIT #12458

NOTES:

- Propose EFR locations
- proposed shallow wells 20'
- proposed deep well 130'
- proposed well to assess 40' sand 45' depth 5' Screen Type III
- proposed boring to assess 40' sand 45' depth
- proposed boring for gw screening

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

JAN 14 2008

JAN 11 2008

MS RENEE' THOMAS
PANTRY INC
PO BOX 1410
SANFORD NC 27331-1410

Re: Assessment Report Plan
81 Food Mart (Former Pantry #585), 1502 East Greenville Street, Anderson, SC
UST Permit #12458
Release reported November 10, 1992
Groundwater Assessment Report received December 21, 2007
Anderson County

Dear Ms. Thomas:

The Underground Storage Tank (UST) Program of the South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed the report submitted by ATC Associates, Incorporated on your behalf. The UST Program has determined additional assessment activities are required to remove free phase product from monitoring wells MW-1 and MW-5, define the vertical extent of the plume in the vicinity of MW-1, define the horizontal extent of the plume south of MW-4 and west across East Greenville street, plus screening and installation of monitoring wells to define the extent of petroleum Chemicals of Concern (CoC) in the sand layer at approximately 40 feet below the ground surface. Please see the attached maps.

To determine what risk the referenced release may pose to the environment and public health, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of the scope of work as outlined in the Tier II Assessment Guidance Document is necessary. The Tier II Assessment Guidance Document and Tier II Assessment forms are available online at http://www.scdhec.gov/eqc/admin/html/..%5C..%5Cust%5Cpubs%5Ctier2.pdf and http://webserver03.dhec.sc.gov/iieforms/d3527.pdf respectively.

Please have your contractor complete and submit the Assessment Component Cost Agreement and Assessment Plan Forms within thirty days of the date of this letter. Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. **Please note that approval from the Department must be issued before work begins.**

On all correspondence or inquiries regarding this project please reference UST permit number 12458. Should you have any questions regarding this correspondence, please feel free to contact me at (803) 896-6669. I can also be reached by email at shradeaa@dhec.sc.gov. or by fax at (803) 896-6245.

Sincerely,

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

Enc: Figures 4 and 8B from ATC Groundwater Assessment Report

cc: ATC Associates, Inc., 400 Northeast Drive, Suite Q, Columbia, SC 29203 (with enc.)
Technical file (with enc.)

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

MS RENEE' THOMAS
PANTRY INC
PO BOX 1410
SANFORD NC 27331-1410

FEB 22 2008

Re: Aggressive Fluid and Vapor Recovery and Assessment Directive
81 Food Mart (Former Pantry #585), 1502 East Greenville Street, Anderson, SC
UST Permit #12458; CA # 31728: MWA #UMW-21519
Release reported November 10, 1992
Tier II Assessment Plan and Cost Proposal received February 8, 2008
Anderson County

Dear Ms. Thomas:

The Underground Storage Tank (UST) Program of the South Carolina Department of Health and Environmental Control (SCDHEC) recognizes your commitment to continue work at this site utilizing your own contractor, ATC Associates, Incorporated. The UST Program has reviewed the referenced submittals and placed them on file.

Assessment activities at the site should begin immediately upon receipt of this letter. The UST Program has approved an Aggressive Fluid and Vapor Recovery (AFVR) event to remove free phase product from monitoring well MW-1 and a second event to remove product from monitoring well MW-5. While the AFVR event is being conducted, characterization across McLees and Greenville Streets and the extent of free phase product should be completed using field-screening points. Based on the field screening results and groundwater laboratory analysis, monitoring wells should be installed in appropriate locations to monitor the migration of CoC. Monitoring well approval has been provided to your site rehabilitation contractor to install three temporary wells, up to five shallow monitoring wells (one shallow in the vicinity of SB-4, a second in the vicinity of SB-12 and a second in the vicinity of SB-14 to define product), four pit cased wells into the sand layer at approximately 40 feet below the land surface, and one deep well. A copy of the monitoring well approval is enclosed for your records. Please have ATC Associates, Incorporated contact the Program prior to well installation for concurrence regarding the final well locations. The soil sample with the highest screening value above the water table for the newly installed wells should be sent to a certified laboratory for analysis for BTEX and naphthalene. A soil sample should be collected from the screen interval of the new well in the vicinity of SB-14, the intermediate well south of MW-4, and conduct a sieve analyses to determine the percent of sand, silt and clay. Slug tests should be conducted on each of these wells plus the new deep well in the vicinity of DMW-1. Approximately 30 days after the completion of the last AFVR event, a groundwater sample should be collected from all monitoring wells. Existing monitoring wells with screens that bracket the water table do not need to be purged before sampling. If a monitoring well contains free phase product, a groundwater sample should be collected below the product. Groundwater samples from all monitoring wells associated with the release should be collected and analyzed for BTEX, naphthalene, MtBE, EDB, 1,2 DCA, 8 oxygenates, lead, nitrates, sulfates, and ferrous iron in accordance with *Analytical Methodology for Groundwater and Soil Assessments* dated August 24, 2005. A copy of this publication is available on line at http://www.scdhec.gov/eqc/admin/html/ ..%5C..%5Cust %5Cpubs %5Canalmet.pdf.

UST PROGRAM
DOCKETING # 77

Cost agreement number 31728 has been approved for the amount shown on the enclosed cost agreement form for the aforementioned scope of work. An Assessment/AFVR Report, due 100 days from the date of this letter, should include the following:

- A narrative portion documenting each AFVR event noting site conditions, the name of the AFVR contractor, field personnel, date, time each AFVR event started and ended, ambient air temperature, general weather conditions during the AFVR event, and the estimated amount in gallons of the petroleum products removed as a liquid or vapor for the event. AFVR data reported must include product recovery rate, volatile air emission concentration, vacuum radius of influence measurements taken at every 30-minute intervals during the event and gauging data from adjacent monitoring wells. Wells containing free phase product should be gauged at the beginning and end of each AFVR event. Disposal manifests for the AFVR event should be included as part of the final report.
- Boring logs and SCDHEC Form 1903 signed by a well driller licensed in the state of South Carolina for all new wells.
- Geological cross sections for the area covered by monitoring wells.
- A narrative portion documenting current site conditions during the groundwater sampling event noting the names of field personnel, date, time, ambient air temperature, and general weather conditions during the sampling event and dissolved oxygen levels for a wells that do not contain free phase product. The report shall also contain well purging data, pH, specific conductivity, water temperature, PID readings (where applicable) and turbidity comments.
- Groundwater elevations, depth to groundwater, measurable free product thickness (where applicable), total well depth and screened interval for all monitoring wells associated with the site, unless otherwise directed by the Program, shall be presented in tabular form. Groundwater laboratory analytical data for this sampling event shall be presented in tabular format.
- A groundwater elevation contour map of the site based on current groundwater potentiometric data.
- A CoC map based on current groundwater laboratory analytical data. The groundwater data should be adjacent to the relevant monitoring well location.
- Manifests for any contaminated soil and/or groundwater removed from the site for treatment and/or disposal.

ATC Associates, Incorporated can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. An interim well drilling invoice for monitoring well installation and the AFVR event may be submitted. Please note that all applicable South Carolina certification requirements apply to the laboratory services, well installation, and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor. 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. <u>Please be advised if the time frame exceeds 45 days between the date when the groundwater samples are collected and the date the report of findings is received, the analytical data will not be considered current and ATC Associates, Incorporated will not be reimbursed for a personnel mobilization to collect the groundwater samples, sample collection costs, laboratory analyses, or associated disposal costs. Please be advised that if the plume is not defined, the SUPERB Account will not reimburse ATC Associates for future equipment mobilizations to define the plume.</u>

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 the Program is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be preapproved by the Program for the cost to be paid. 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. Further, SCDHEC 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.

The Department 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 COC concentrations, based on laboratory analysis, are below Risk Based Screening Levels (RBSLs), 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 or inquiries regarding this project please reference UST permit number 12458. Should you have any questions regarding this correspondence, please feel free to contact me at (803) 896-6669. I can also be reached by email at shradeaa@dhec.sc.gov. or by fax at (803) 896-6245.

Sincerely,

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

Enc: Approved Cost Agreement
Monitoring Well Approval
Proposed Wells Site Map

cc: ATC Associates, Inc., 400 Northeast Drive, Suite Q, Columbia, SC 29203 (with enc.)
Mr. Bridges, GrandSouth Bank, PO Box 1848, Anderson, SC 29622 (without enc.)
Technical file (with enc.)

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

Monitoring Well Installation Approval Form

Approval is hereby granted to: ATC Associates, Incorporated
(on behalf of): The Pantry
Facility: 81 Food Mart (Former Pantry #585), 1502 East Greennville Street, Anderson, SC
UST Permit Number: 12458
County: Anderson

This approval is for the installation of five temporary, five shallow, and five pit cased 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.

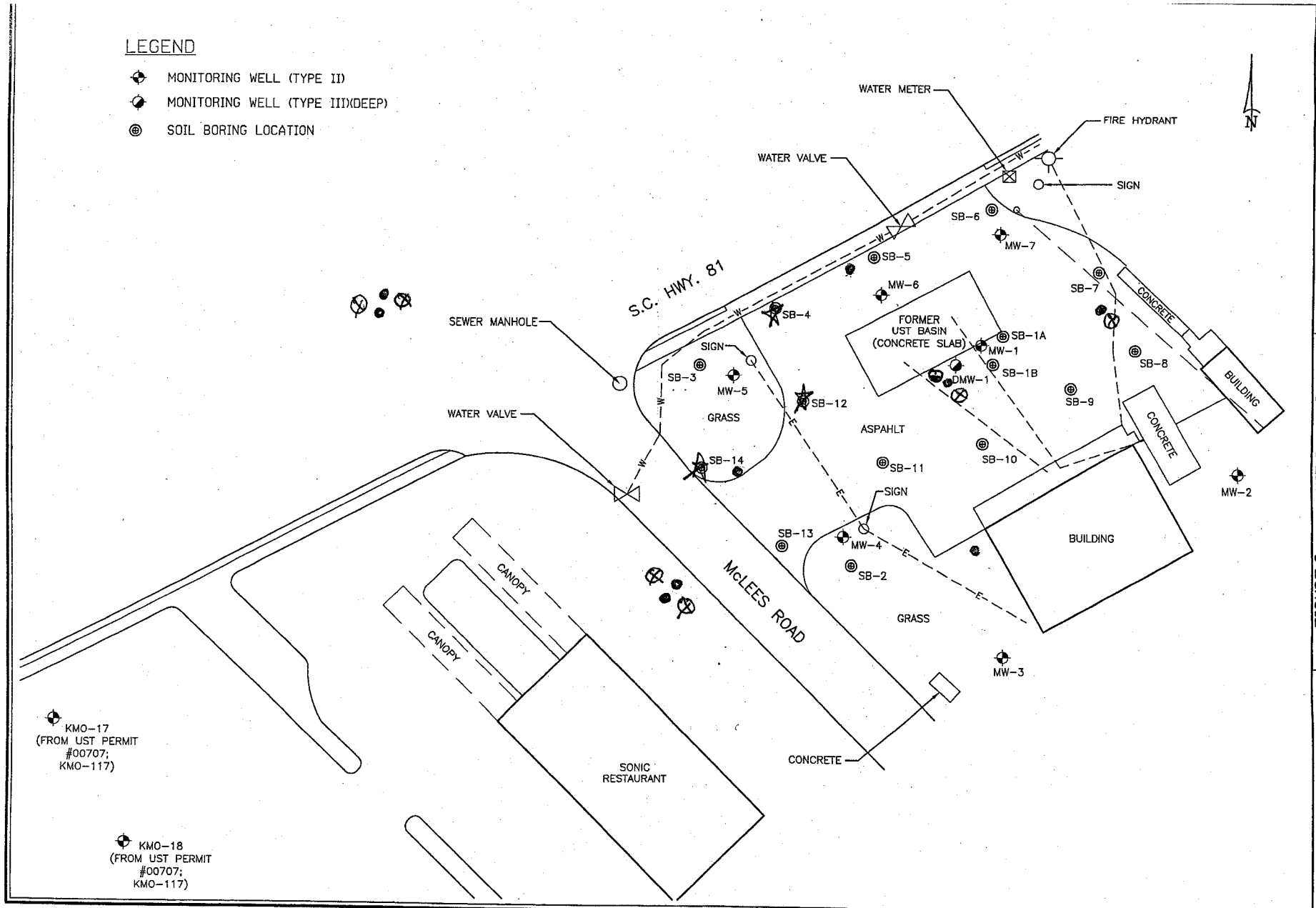
Please note that R.61-71 requires the following:

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 Department shall be completed and submitted to the Department within 30 days after well completion or abandonment unless another schedule has been approved by the Department. 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 Department within 30 days of receipt of laboratory results unless another schedule has been approved by the Department as required by R.61-71.H.1.d.
5. If any of the information provided to the Department changes, notification to Arthur Shrader (tel: (803) 896-6669 or e-mail: shradeaa@dhec.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. Departmental 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 April 26, 2002. A copy of this approval should be on the site during well installation.

Date of Issuance: **February 11, 2008** **Approval #:** **UMW-21519**

Arthur Shrader, Hydrogeologist
Assessment Section
Division of Assessment and Corrective Action
Bureau of Land and Waste Management



ATC ASSOCIATES INC.
Columbia, South Carolina 29203 (803) 735-0003 FAX (803) 735-0443

SCALE	DATE	PROJECT NO.
1" = 30'	06-19-2007	14-25704.0505

REV. BY	PREP. BY	TYPE CODE	CAD FILE
	JK		1253237.dwg

TITLE **FIGURE 2**
SITE MAP
FORMER PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

UST PERMIT #12458

NOTES:

- Propose EFR locations
- proposed shallow wells 20'
- proposed deep well 130'
- proposed well to assess 40' sand 45' depth 5' Screen Type III
- proposed boring to assess 40' sand 45' depth
- proposed boring for gw screening

* Shallow wells to define product

Approved Cost Agreement 31728

Facility: 12458 81 FOOD MART
SHRADEAA
PO Number:

Task / Description	Categories	Item Description	Qty / Pct	Unit Price	Amount
01 PLAN					
		A PLAN PREPARATION	1.0000	100.00	100.00
04 MOB/DEMOB					
		A EQUIPMENT	5.0000	550.00	2,750.00
		B PERSONNEL	6.0000	275.00	1,650.00
06 SOIL BORINGS (DRILLED)					
		A SOIL BORINGS & FLD SCREENING	355.0000	17.00	6,035.00
08 ABANDONMENT					
		ABANDONMENT	355.0000	5.00	1,775.00
09 WELL INSTALLATION					
		B WATER TABLE (DRILLED)	100.0000	38.00	3,800.00
		C TELESCOPING	180.0000	58.00	10,440.00
		D ROCK DRILLING	130.0000	58.00	7,540.00
10 SAMPLE COLLECTION					
		A GROUND WATER	11.0000	55.00	605.00
		C WATER SUPPLY	7.0000	25.00	175.00
11 ANALYSES					
	GW GROUNDWATER	A BTEX+NAPTH+MTBE	27.0000	100.00	2,700.00
		BB 1,2-DCA	18.0000	10.75	193.50
		E LEAD	18.0000	20.00	360.00
		F EDB	18.0000	55.00	990.00
		K NITRATE	18.0000	20.00	360.00
		L SULFATE	18.0000	20.00	360.00
		M FERROUS IRON	18.0000	20.00	360.00
		P 8 OXYGENATES	18.0000	85.00	1,530.00
	SOIL SOIL	Q BTEX+NAPTH	10.0000	100.00	1,000.00
		W GRAIN SIZE/HYDROMETER	2.0000	75.00	150.00
12 AQUIFER CHARACTERIZATION					
		B SLUG TEST	3.0000	150.00	450.00
16 SUBSEQUENT SURVEY					
		SUBSEQUENT SURVEY	1.0000	260.00	260.00
17 DISPOSAL					
		A1 WASTEWATER - PURGING/SAMPLING	4.0000	90.00	360.00
		A2 WASTEWATER - PUMPING TEST	1,600.0000	0.60	960.00
		C SOIL (TREATMENT/DISPOSAL)	55.0000	50.00	2,750.00
19 RPT/PROJECT MNGT & COORDINATIO					
		PCT PERCENT	0.1500	54,213.50	8,132.03
23 EFR					
		A 8 HOUR EVENT	2.0000	3,000.00	6,000.00
		C OFF GAS TREATMENT	16.0000	35.00	560.00
			Total Amount		62,345.53

D H E C

PROMOTE PROTECT PROSPER

ATTENTION

Payees from the

SUPERB Account

This scope of work has been approved for payment from a ONE-TIME addition of MONEY from the State Legislature to the SUPERB Account. This money must be paid out by June 30, 2008.

This work must be completed, and an invoice must be sent in <u>before</u> APRIL 30, 2008 to be processed for payment.

If you have questions please call the phone number given in the enclosed letter.

D H E C
PROMOTE PROTECT PROSPER
C. Earl Hunter, Commissioner
Promoting and protecting the health of the public and the environment.

MAR 11 2008

MR JIMMY WILLIAMS
COMMERCIAL HOLDINGS LLC
1033 KENSINGTON LAKE DR
EASLEY SC 29622-9365

Re: Letter of Concern
81 Food Market, 1502 East Greenville Street, Anderson, SC
UST Permit # 12458
Correspondence received March 10, 2008
Anderson County

Dear Mr. Williams:

As requested by Mr. Jeff DeWitt, with SPERO Corporation, an update on the environmental conditions at the above referenced facility is provided.

We received a report on November 10, 1992 documenting petroleum chemicals of concern in the subsurface in the vicinity of the underground storage tank. Our records revealed that three underground storage tank (UST) owned by The Pantry here been removed from the ground in April 1991. In response to the initial report of petroleum impact, we directed The Pantry, as the party responsible for performing this activity under state and federal law, to assess the extent and severity of the contamination. An initial assessment was conducted at the referenced facility. The plume is currently being assessed with a report of finding due August 2008.

This release of petroleum products from the USTs is qualified to receive funding under the conditions of the State Underground Petroleum Environmental Response Bank (SUPERB) Act. This means that reasonable costs up to $1,000,000 can be paid by the SUPERB account for site rehabilitation actions associated with this release. To date, a total of $72,193.56 has been paid toward the $1,000,000.

Section 80(C) of the SUPERB Act provides that a subsequent purchaser of property from which an UST has been removed is not responsible for site rehabilitation activities other than abatement actions necessary to eliminate any imminent threat to human health or the environment. This exemption applies to the extent that the release is eligible for compensation from the SUPERB Account, provided that the person allows reasonable access to the property for rehabilitation activities, and does not or has not had any familial, financial, or other interest with the person who owned or operated the UST. This applies equally to subsequent lenders or to those who would acquire this property through foreclosure in the future.

UST PROGRAM
DOCKETING # 8

The Program is not aware of any laws or regulations that prohibit the use or development of properties where a petroleum release has occurred. Any future work required by the Department should not cause any damage to the building, disrupt deliveries, prevent access to customers, or block main access routes. To further assure you, any required activities associated with the petroleum release would be performed by a SC Certified Site Rehabilitation Contractor who maintains specific levels of insurance coverage for General and Professional Liability and Pollution/Property Damage. Such coverage is required by Section IV of the SUPERB Site Rehabilitation and Fund Access Regulations R. 61-98.

If you have any questions, please do not hesitate to call me at (803) 896-6669.

Sincerely,

Arthur Shrader, Hydrogeologist
Assessment Section
Underground Storage Tank Program
Bureau of Land & Waste Management

cc: Ms. Thomas, The Pantry, PO Box 1410, Sanford, NC 27331-1410
Mr. DeWitt, SPERO Corporation, 119 S. E. Main Street, Simpsonville, SC 29681
Technical File

ATC ASSOCIATES INC.
Engineering Individual Solutions

2725 East Millbrook Road, Suite 121
Raleigh, North Carolina 27604
919-871-0999
Fax 919-871-0335
www.atcassociates.com

March 13, 2008

RECEIVED
MAR 17 2008
UNDERGROUND STORAGE TANK PROGRAM

SENT VIA CERTIFIED MAIL No. 7005 1160 0004 4741 8927

NHI Properties LLC
P.O. Box 1327
Anderson, South Carolina 29622-1327

Re: Environmental Assessment
Former Pantry #585
1502 E. Greenville Street
Anderson, Anderson County, South Carolina
UST Permit #12458

Dear Property Owner:

ATC Associates Inc. (ATC) is conducting Environmental Assessment at the Former Pantry #585 on behalf of the South Carolina Department of Health and Environmental Control (SCDHEC) and The Pantry, Inc. In order to conduct this environmental assessment, the installation of two groundwater monitoring wells is required on your property by SCDHEC. According to the Anderson County Geographic Information System (GIS) website, you are the property owner of 1501 E. Greenville Street and identified as Parcel No. 1480001010. A map identifying the proposed monitoring well locations is enclosed as an attachment.

The scope of work is to advance two borings, one to 20 feet and the second to 40 feet, in order to collect a groundwater sample at each location. Each boring will be backfilled with bentonite slurry mix and capped with native soils. The groundwater samples will be submitted for laboratory analysis and pending laboratory results, up to two monitoring wells may be installed on your property.

One monitoring well will be installed to an approximate depth of 20 feet and the second well will be installed to an approximate depth of 40 feet. The two wells are required to assess the groundwater quality at two separate intervals. ATC will supervise a licensed South Carolina driller during monitoring well installation on your property. ATC expects the drilling of the monitoring wells to be completed within one day. Following monitoring well installation, ATC will collect samples on a periodic basis.

NHI Properties LLC, as the property owner, will not be held responsible or liable for any damages or expenses for injury to persons or property while ATC is on the premises. SCDHEC has requested the completion of this assessment in a timely manner and believes it is in your best interest to allow the monitoring well installation. If you have any questions regarding SCDHEC authorization to conduct these activities, please contact Mr. Arthur Shrader, SCDHEC Project Manager, at 803-896-6669 and reference UST Permit #12458.

UST PROGRAM
DOCKETING # 9T

Please provide your authorization and approval by signing below and returning the signature page in the enclosed envelope by **March 31, 2008**. Acknowledgment of this form is required by SCDHEC. Denial of site access will be forwarded to SCDHEC for their pursuit of site access.

If you have any questions or would like to further discuss any aspect of this site access request, please contact me at 800-653-8248, or Mr. Arthur Shrader, SCDHEC Project Manager at 803-896-6669.

Sincerely,
ATC Associates Inc.

David Lubell
Project Scientist

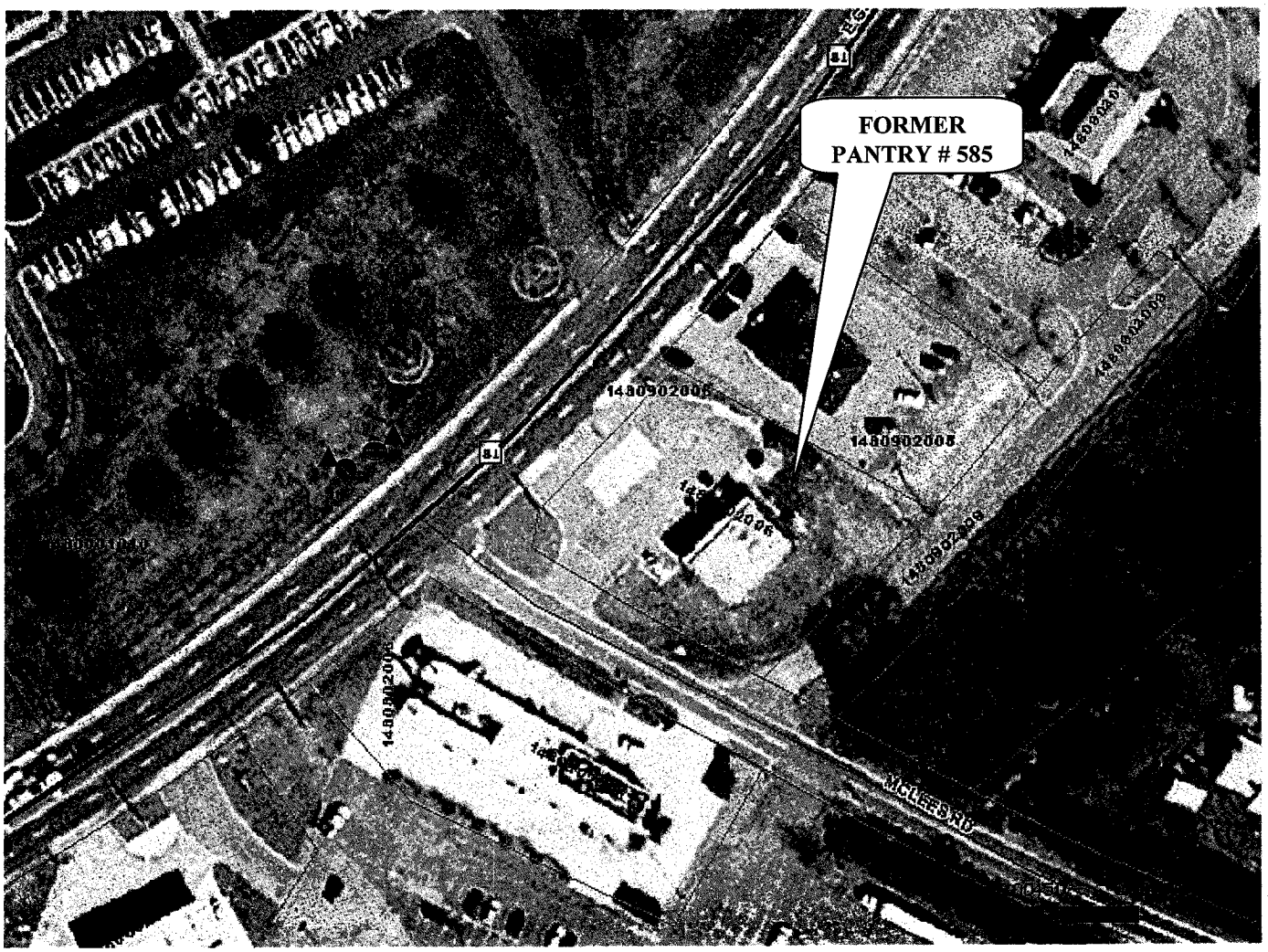
Enclosure

cc: Ms. Renee' Thomas, The Pantry, Inc.
Mr. Arthur Shrader, SCDHEC

☐ _____
Access approved

☐ _____
Access denied

Phone number_____
(If you wish to be notified prior to field activities)



SOURCE: ANDERSON COUNTY, SC GIS WEBSITE.

1480001010 = PARCEL #

- **Proposed Deep Monitoring Well**
- **Proposed Shallow Monitoring Well**
- **Proposed Field Screen Boring**

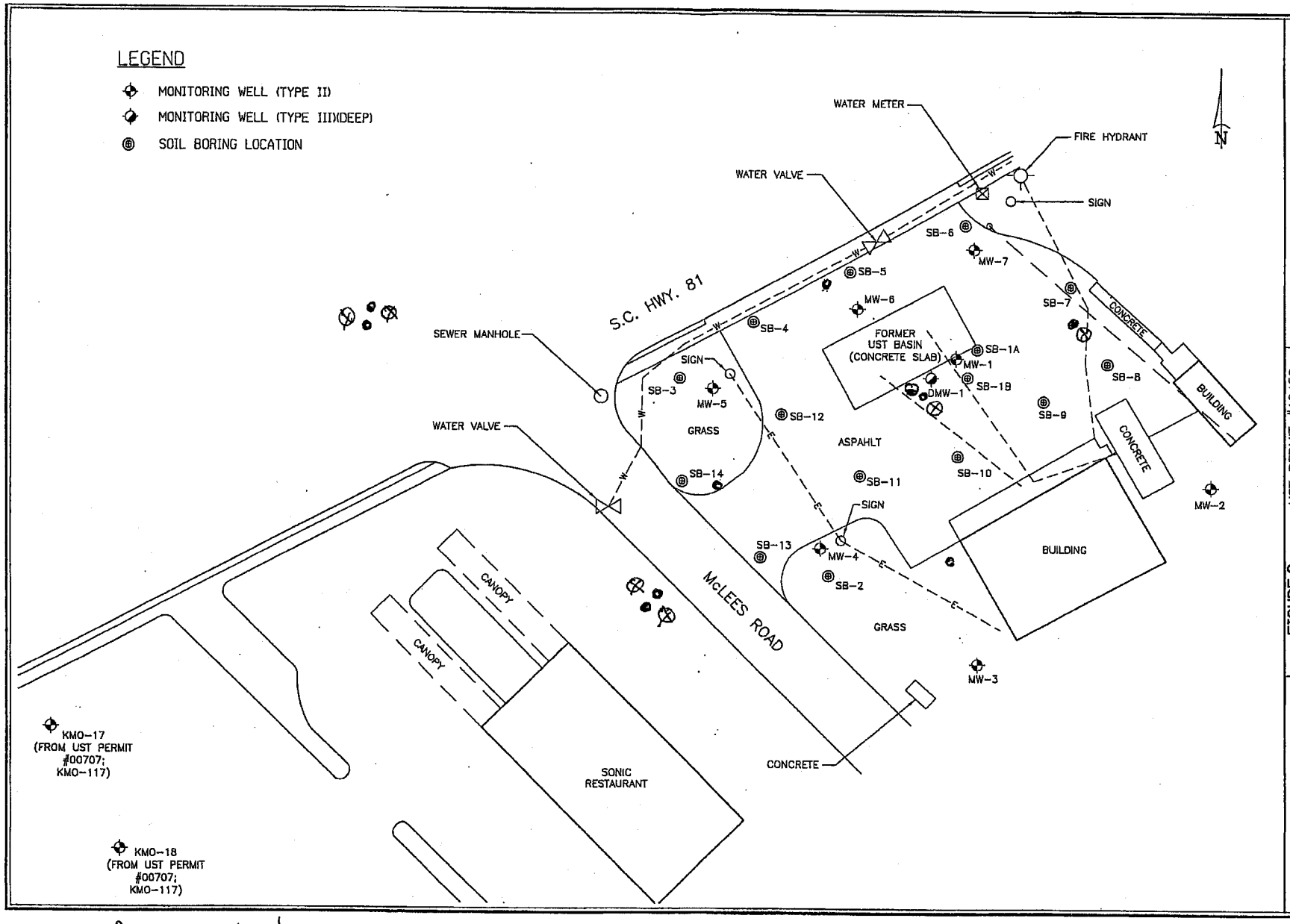
ATC ASSOCIATES INC.
2725 E. Millbrook Road, Ste 121
Raleigh, NC 27604
(919) 871-0999

PROJECT No: 45.25384.0585

SCALE: As Indicated	03/06/08	PREPARED BY: DL

PROPOSED FIELD SCREEN AND WELL LOCATIONS

FORMER PANTRY # 585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA
UST INCIDENT No. 12458



- Propose EFR locations
- proposed shallow wells 20'
- proposed deep well 130'
- proposed well to assess 40' sand 45' depth 5' Screen Type III
- proposed boring to assess 40' sand 45' depth
- proposed boring for gw screening

NOTES:

TITLE FIGURE 2
SITE MAP
FORMER PANTRY #585
1502 E. GREENVILLE STREET
ANDERSON, SOUTH CAROLINA

UST PERMIT #12458

CAD FILE	TYPE CODE	PREP. BY	REV. BY	SCALE	DATE	PROJECT NO.
1253237.dwg		JK		1" = 30'	06-19-2007	14.25384.0F

ATC ASSOCIATES INC.
Columbia, South Carolina 29203 (803) 735-0003 FAX (803) 735-04