CONSULTECH ENVIRONMENTAL, INC.

May 1, 2006

Ms. Maia Milenkova
Assessment and Corrective Action Division
Underground storage Tank Program
South Carolina DHEC
2600 Bull Street
Columbia, South Carolina 29201

RECEIVED
MAY 0 8 2006
UNDERGROUND STORAGE TANK PROGRAM

RE: Tier II Assessment Report Addendum
George Souther's Grocery
280 Goodjoin Road
Campobello, South Carolina 29322
SCDHEC Site ID #08650, CA#21963

Dear Ms. Milenkova,

Consultech is pleased to submit this copy of the Tier II Assessment Report Addendum, prepared for the above referenced facility in accordance with the Tier II Assessment Plan (Tier II) document dated March 15, 2000 and contract SB-26861-10/26/04-EMW dated November 2, 2004, as authorized by the South Carolina Department of Health and Environmental Control (SCDHEC). On April 5, 2006, monitoring wells MW-44 and MW-45 were installed and sampled. In addition, monitoring well MW-34 was sampled since it had water. This Tier II Addendum was conducted to include the information for these three wells in the final report.

If you should have any questions about this report, please do not hesitate to contact me at (678) 377-0400 Ext 214.

Sincerely,

CONSULTECH ENVIRONMENTAL, INC.

James R. Wilson, P.G.
Senior Project Manager

Transferred per agreement btwn Maia + Alex. Abandon WSW? not defined deep. Needs GWS.

cc: File C-05-02-015

SCANNED

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UST PROGRAM
DOCKETING # 01-Tech

TIER II ASSESSMENT REPORT ADDENDUM

George Souther's Grocery
UST Permit #08650, CA 21963
Campobello, Spartanburg County, South Carolina

Prepared for:

South Carolina Department of Health
And Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Prepared by:

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Consultech Project No. C-05-02-015

MAY 2006

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TIER II ASSESSMENT CERTIFICATION

Tier II Assessment Report (Tier II) Certification

I hereby certify that the information contained in this plan and the associated attachments is true, accurate, and complete, and the plan satisfies all the criteria and requirements of the tier II assessment guidelines dated March 15, 2000.

Kenneth L Brooke 5/3/06

Kenneth L. Brooke, P.E. (Consultech Environmental, Inc.) Date
Project Manager

I hereby certify that I have directed the fieldwork and preparation of this plan in accordance with State Rules and Regulations. As a registered geologist, I certify that I am a qualified groundwater professional, as defined by the South Carolina Board of Registration for Geologists. All of the information and laboratory data in this plan and in all of the attachments is true, accurate, complete, and in accordance with applicable State Rules and Regulations.

James R Wilson 5/3/06

James R Wilson, P.G. (Consultech Environmental, Inc.) Date
Senior Project Manager

JAMES R. WILSON
REGISTERED
NO. 2062
SOUTH CAROLINA
PROFESSIONAL GEOLOGIST

1.0 PROJECT BACKGROUND INFORMATION

This section presents the purpose of the Tier II Assessment Report (Tier II), a description of the site, and the site assessment history.

1.1 Purpose

The purpose of a Tier II assessment is to provide the South Carolina Department of Health and Environmental Control (SCDHEC) with sufficient information to determine if the petroleum release reported in the Tier II Assessment conducted for the George Souther's Grocery poses a potential risk to human health or to the environment. The Tier II from the site indicated that a release of petroleum hydrocarbon constituents had migrated downgradient and this second Tier II Addendum was to delineate the EDB plume in the southwest and southeast directions. This Tier II specifically provides information outlined in the scope of work as defined in the SCDHEC Tier II Assessment Plan (Tier II) guidance document, dated March 15, 2000. Please reference Consultech's Standard Operating Procedures document, dated December 2004. This report presents the extent of petroleum hydrocarbons released to the environment and an evaluation of the risk of exposure to potential receptors, and also provides a plan that adequately protects human health, safety, and the environment.

1.2 Site Description

The subject property, George Souther's Grocery is located at 280 Goodjoin Road in Campobello, South Carolina (Figure 1). Figure 2 indicates the general location of the former USTs and dispensers.

1.3 Site Assessment History

George Souther's Grocery had a release reported to SCDHEC on December 31, 1991 and confirmed March 23, 1992. Three 3,000-gallon gasoline USTs, one 4,000-gallon gasoline UST, one 3,000-gallon diesel UST, and one 550-gallon kerosene UST along with the associated piping and dispensers, were removed from the site on December 20, 1991. The site currently has one 10,000-gallon gasoline UST, one 6,000-gallon gasoline UST, one 2,000-gallon diesel UST, and one 2,000-gallon kerosene UST in operation in the area of the former USTs. The Tier II Assessment was performed by NESCO in 2002 and sampled again in 2003. Analytical results indicated that the groundwater at the site had been impacted by a petroleum hydrocarbons release. Consultech conducted a Tier II Addendum in December 2005 to delineate the plume in all directions. This additional Tier II Addendum was to delineate the EDB plume in the southwest and southeast directions.

2.0 POTENTIAL RECEPTOR SURVEY

The receptor survey included a private and public groundwater supply well search, a surface water body search in the area of the site, an underground utility survey, and a discussion of current and future uses of the site and downgradient properties.

2.1 Location of Drinking Water Supplies

Consultech conducted a water systems survey in the vicinity of the site. Consultech personnel found one water well that exist within a 1,000-foot radius of the subject site. A well is located under the main building at the George Souther's site but is no longer used. This well was formerly used to wash vehicles. All businesses and residences in the area are on city water. The water tower that is 600 feet east of the site is supplied by water well in Lyman, SC.

2.2 Location of Surface Water Bodies

There is one surface water body within a 1,000-foot radius of the subject site. The nearest surface water body is a tributary to Motlow Creek located 250 feet to the northeast of the site.

2.3 Underground Utility Survey

Subsurface utilities in the site area include water, telephone, and septic lines, as shown on Figure 2. Locations and estimated depths of these utilities were obtained during the site investigations. Water lines run on the south side of Mt. Lebanon and Goodjoin Road and on the north side of these roads west of the intersection in the easement. Telephone lines run on the south side of Goodjoin Road and on the north side of Mt. Lebanon Road west of the intersection in the easement. Septic systems are behind all residences and businesses in the area. Depths for these utilities are estimated to be two to five feet below the ground surface. No other underground utilities were located or scanned with a PID.

Electrical lines exist above ground level on utility poles that are located all around the property as shown in Figure 2. Groundwater in the site area occurs at depths ranging from 3 to 38 ft-bgs. Therefore, underground utilities could not be acting as conduits for groundwater flow except for the area north of Goodjoin and Lebanon Roads where groundwater is less than 15 ft-bgs.

2.4 Current and Future Uses of the Site and Downgradient Properties

The George Souther's Grocery is currently Briar Patch Grocery that dispenses gas. The former gas station on the north side of the intersection is currently abandoned and has not been used for some time. The former gas station on the south side of the intersection is currently a restaurant owned by Becky Arms and has not been used for some time. The other properties surrounding the sites are residential in nature. Figure 2 illustrates the locations of the adjacent properties with respect to the subject site. The site is bordered to the north, east, and south by woods and residential properties. The two former gas stations are to the west of the site. Future uses of the surrounding properties will likely remain the same.

3.0 HYDROGEOLOGY AND GEOLOGY

3.1 Regional Geology and Hydrogeology

Spartanburg County is located within the Southern Piedmont Physiographic Province, which consists of rocks southeast of the Brevard fault zone. The Piedmont is characterized by rolling upland topography broken by stream valleys and high prominent hills. The rocks of the area are composed of Pre-Cambrian igneous and metamorphic rocks, which have undergone extensive alteration through multiple events of folding and faulting. Biotite gneiss, mica schist, amphibolite, and hornblende gneisses underlie the major part of the area and form the host rock in which granite has been intruded locally (McConnell and Abrams, 1984).

Soils in the province are composed of detrital materials as well as saprolite. Saprolite is best described as a soft, earthy, decomposed rock formed in place by the chemical weathering of igneous and metamorphic rocks. Groundwater supplies are obtained predominately from dug wells in rural areas, deriving water from saprolite and residual material overlying the bedrock. Municipal and industrial supplies in urban areas are derived through deep bedrock wells.

3.2 Site Hydrogeology

For this site, a benchmark was established with an assumed elevation of 102.77 feet above the National Geodetic Vertical Datum (NGVD) on top of a bolt on a pole 360 feet northwest of the intersection of Mt. Lebanon and Goodjoin Roads. Groundwater elevations were initially measured on August 31, 2005 in monitoring wells MW-1 through MW-5, MW-7 through MW-9, MW-11 through MW-12, MW-16 through MW-17, MW-19 through MW-25, PW-1, and PW-2 before screening the site. Groundwater elevations were measured on December 12 through 14, 2005 in monitoring wells MW-1 through MW-5, MW-6R, MW-7 through MW-9, MW-10R, MW-11, MW-12, MW-13R through MW-15R, MW-16, MW-17, MW-18R, MW-19 through MW-43, DW-1 through DW-6, PW-1, PW-2, and RW-1 in order to determine static water levels, to establish the groundwater gradient, and to check for liquid phased hydrocarbons (LPH). The groundwater elevations in the on-site shallow monitoring wells ranged from 86.89 feet in MW-11 to 66.12 feet in MW-43, with respect to a relative datum elevation of 102.77 feet. LPH was detected in monitoring well MW-5 at a thickness of 0.33 feet, MW-8 at a thickness of 0.26 feet, and a sheen in MW-7 and MW-11. The groundwater elevations were measured on April 5, 2006 in monitoring wells MW-34, MW-44, and MW-45. A summary of the measurement data collected from the monitoring wells is presented on Table 1.

3.3 Site Geology

The subsoil in this area is predominantly brown to red silty sand to sandy clay alternating from the ground surface to a depth of 20 to 30 ft-bgs which is underlain by red to brown sand to the top of basement rock which ranges from 12 to 78 ft-bgs as noted by the Tier II investigations and the new wells for the Tier II Addendums (Appendix 3). Soil boring/monitoring well installation lithological data indicated that soil types and depths appear to be predominantly uniform across the site. Groundwater levels in the sand range from 3 to 38 ft-bgs.

3.4 Site Topography

Topographic relief within a quarter mile radius of the subject property, as evidenced by the U.S.G.S. 7.5-minute quadrangle topographic map for the area (Campobello, South Carolina, Figure 3), ranges between 1049 and 1108 feet above the NGVD. The subject properties have an elevation of 1080 feet above the NGVD. The general direction of surface water drainage in the site vicinity of the former George Souther's Grocery appears to be to the east towards the water tower. The nearest surface water body is a tributary to Motlow Creek located 250 feet to the northeast of the site. A Site Topographic Map with potential receptors is presented as Figure 3.

4.0 INVESTIGATIVE METHODS AND SAMPLING

4.1 Field Screening

The soil borings were scanned with a calibrated PID meter and collected on four-foot intervals to approximate depths of 40 ft-bgs for shallow borings to 62 ft-bgs for deep borings. Detectable PID readings were indicated in all of the soil borings. PID field screening results for the soil and groundwater are presented in Table 2, and a groundwater PID field-screening map was provided in the original Tier II Addendum in December 2005.

4.2 Soil Boring/Monitoring Well Installation

Soil samples were described on the basis of lithology, color, texture, and relative moisture content.

In November and December 2005 the following wells were installed. The shallow monitoring wells installed were two-inch PVC wells. Monitoring wells MW-6R, MW-10R, MW-13R through MW-15R, MW-26, MW-27, and MW-37 through MW-39 were installed at 17 ft-bgs. Monitoring wells MW-18R, and MW-29 through MW-32 were installed at 30 ft-bgs. Monitoring well MW-35 was installed at 28 ft-bgs. Monitoring well MW-28 and MW-36 were installed at 25 ft-bgs. Monitoring wells MW-33, MW-34, and MW-40 through MW-43 were installed at 40 ft-bgs. Fifteen feet of 0.010-inch slotted well screen was used in construction of the shallow monitoring wells. Six deep wells were installed for this investigation. Deep well DW-1 was installed between MW-4 and MW-5 with five-inch casing at 78 feet on top of rock and the two-inch casing at 85 feet. The two-inch screen was set from 85 to 90 feet. Deep well DW-2 was drilled beside MW-24 and DW-6 was drilled beside MW-42. These two deep wells have five-inch casing at 65 feet and the two-inch casing at 70 feet. The two-inch screen was set from 70 to 75 feet. Deep well DW-3 was paired with monitoring well MW-11. The five-inch casing of DW-3 was advanced to 53 ft-bgs on top of rock. A boring was then advanced through the inside of the five-inch well casing to a depth of 65 ft-bgs. Screen was set from 60 to 65 ft-bgs. Deep well DW-4 was paired with MW-8. The five-inch casing of DW-4 was advanced to 52 ft-bgs on top of rock, and the two-inch screen was set from 62 to 67 ft-bgs. Deep well DW-5 was paired with MW-9 since there was no room by MW-29. The five-inch casing of DW-5 was advanced to 52 ft-bgs on top of rock, and the two-inch screen was set from 70 to 75 ft-bgs. These well logs are in the original Tier II Addendum Report from December 2005.

On April 5, 2006, monitoring wells MW-44 and MW-45 were installed at 35 ft-bgs and 30 ft-bgs, respectively. Fifteen feet of 0.010-inch slotted well screen was used in construction of these shallow monitoring wells. These two well construction diagrams are included with the soil boring logs in Appendix 3. In addition, monitoring well MW-34 was included again since it was not dry and sampled during this event.

4.3 Soil Sampling

Soil samples were collected from the original Tier II investigation conducted in August 2002. Soil analytical data is presented in Table 3. The soil cuttings generated during all of Consultech's drilling activities were scanned with a calibrated PID and placed in 55-gallon drums. The soil cuttings were then disposed of accordingly. Since the soil from monitoring wells MW-44 and MW-45 were clean, the soil from these two wells was spread onsite and not disposed.

4.4 Groundwater Sampling

During the Tier II Addendum in November and December 2005, groundwater samples were initially collected from soil borings GW-1 through GW-17 for screening purposes and the first seven samples were put on normal turn around time and the last ten were rush analyzed for BTEX, naphthalenes, and MTBE. Groundwater samples were collected from monitoring wells MW-1 through MW-5, MW-6R, MW-7 through MW-9, MW-10R, MW-11, MW-12, MW-13R through MW-15R, MW-16, MW-17, MW-18R, MW-19 through MW-43, DW-1 through DW-6, PW-1, PW-2, and RW-1 and were analyzed for BTEX, naphthalenes, MTBE, EDB, 1,2 DCA, 8-Oxygenates, and total lead. In addition, monitoring wells MW-6R, MW-10R, MW-13R through MW-15R, MW-26 through MW-43, and DW-1 through DW-6 were analyzed for dissolved iron, nitrate, sulfate, and methane. Monitoring wells MW-2 and MW-34 could not be sampled due to being dry.

During the second Tier II Addendum in February and April 2006, groundwater samples were collected from soil borings GW-18 through GW-21 for screening purposes and rush analyzed for EDB only. All four groundwater samples indicated small concentrations of EDB, however the EDB in these samples could be from pesticides used in the farmed fields beside these soil borings. The groundwater from the monitoring wells MW-44 and MW-45 indicated below detection limits for EDB indicating that the groundwater extent was delineated. Groundwater samples were collected from monitoring wells MW-34, MW-44, and MW-45 and were analyzed for BTEX, naphthalenes, MTBE, EDB, 1,2 DCA, 8-Oxygenates, and total lead. The laboratory reports are presented in Tables 5, 6, & 7 and Appendix 5.

5.0 PHYSICAL AQUIFER CHARACTERISTICS

5.1 Hydraulic Conductivity Tests

Consultech did not conduct in-situ horizontal hydraulic conductivity tests in any monitoring wells since they were conducted in the original Tier II in August 2002.

5.2 Direction and Rate of Groundwater Flow

Groundwater depths measured in August 2002, July 2003, August and December 2005, and April 5, 2006 and their corresponding elevations are presented on Table 1. All wells were gauged for the presence of LPH using an oil/water interface probe. On December 12, 2005, LPH was detected in monitoring wells MW-5 at a thickness of 0.33 feet, MW-8 at a thickness of 0.26 feet, and a sheen in MW-7 and MW-11.

The groundwater elevations taken on December 12-14, 2005 are illustrated on Figure 5 for the shallow wells in the Tier II Addendum Report dated December 23, 2005 and can be referenced there. These figures indicate that the groundwater flow direction is to the east towards the water tower. Based on the groundwater elevations in the wells and the distances between them, the average hydraulic gradient (referenced as "i") is estimated to be 0.030 feet per foot (ft/ft) across the site between monitoring wells MW-7 and MW-43 for the shallow groundwater.

A groundwater elevation map was not contructed for the April 5, 2006 sampling event, since only monitoring wells MW-34, MW-44, and MW-45 were measured.

6.0 HORIZONTAL AND VERTICAL EXTENT OF PETROLEUM HYDROCARBONS

6.1 Extent of Petroleum Contamination in Soil

This was determined in the Tier II Assessment Report by NESCO in August of 2002.

6.2 Extent of Petroleum Contamination in Groundwater

On November 18-23 and December 6-14, 2005, groundwater samples were collected from monitoring wells MW-1 through MW-5, MW-6R, MW-7 through MW-9, MW-10R, MW-11, MW-12, MW-13R through MW-15R, MW-16, MW-17, MW-18R, MW-19 through MW-43, DW-1 through DW-6, PW-1, PW-2, and RW-1. On April 5, 2006, groundwater samples were collected from monitoring wells MW-34, MW-44, and MW-45.

Table 5 presents the historical analytical results for BTEX, MTBE, and naphthalenes in groundwater on the site. Figure 4 presents the lateral distribution of dissolved benzene in groundwater across the site on November 18-23, December 6-14, 2005, and April 5, 2006. Benzene was detected in groundwater above the RBSL of 5.0 µg/l in monitoring wells MW-1, MW-3 through MW-5, MW-6R, MW-7 through MW-9, MW-11, MW-15, MW-17, MW-19, MW-28, MW-29, MW-32, MW-36, MW-40, RW-1, and DW-1 through DW-5.

Toluene was detected in groundwater above the RBSL of 1,000 µg/l in monitoring wells MW-1, MW-3, MW-5, MW-7, MW-8, MW-9, MW-28, MW-29, MW-32, MW-36, RW-1 and DW-4. Ethylbenzene was detected in groundwater above the RBSL of 700 µg/l in monitoring wells MW-1, MW-3, MW-5, MW-7, MW-8, MW-9, MW-28, MW-29, MW-32, MW-36, RW-1, and DW-4. Xylenes were detected above the RBSL of 10,000 ug/l in monitoring wells MW-1, MW-3, MW-5, MW-7, MW-8, MW-28, MW-29, MW-32, and RW-1.

MTBE (Figure 5) was detected in groundwater above the RBSL of 40 monitoring wells MW-1, MW-5, MW-7 through MW-9, MW-11, MW-28, MW-32, MW-36, and RW-1. Naphthalenes (Figure 6) were detected in groundwater above the RBSL of 25 µg/l in monitoring wells MW-1, MW-3, MW-5, MW-6R, MW-7, MW-8, MW-9, MW-11, MW-28, MW-29, MW-32, MW-36, RW-1, DW-1, DW-2, DW-4, and DW-5.

Table 6 presents other petroleum hydrocarbons constituents and natural attenuation parameters that were measured during the April 19-21, 2005 sampling event. The following indicates RBSLs exceeded due to the release on the subject site. EDB (Figure 7) was detected in groundwater above the RBSL of 0.05 µg/l in monitoring wells MW-1, MW-3, MW-5, MW-6R, MW-7, MW-8, MW-9, MW-36, MW-17, MW-29, MW-30, MW-32, MW-40, DW-1, DW-2, DW-4, DW-5, and PW-2. Total lead was detected in groundwater above the RBSL of 0.015 µg/l in monitoring wells MW-1, MW-3, MW-5, MW-8, MW-11, MW-14R, MW-15R, MW-23, MW-29 through 32, MW-36 through MW-38, MW-40, PW-1, and RW-1. Table 7 presents the groundwater analytical results from the individual Oxygenates.

The George Souther's Grocery petroleum hydrocarbon plume has migrated approximately 300 feet southeast of the former tank pit area. The edge of the hydrocarbon plume is currently between monitoring well MW-30 and MW-45 for the shallow plume and deep well DW-5 for the deep plume.

Natural attenuation parameters will be discussed in Section 8.2.

6.3 Extent of LPH Plume

On August 30, 2002, LPH was detected in monitoring wells MW-2, MW-5, and MW-11, and RW-1 at thickness of 0.10, 0.21, 0.77 and 0.49 feet, respectively. On July 17, 2003, LPH was detected in monitoring wells MW-8, and MW-11 at thickness of 0.28, 0.25 feet, respectively. On August 31, 2005, LPH was detected in monitoring wells MW-5, MW-7, and MW-11 at thickness of 0.21, 0.01, and 0.06 feet, respectively. An LPH recovery test was conducted on December 14, 2005 and indicated a true thickness of 0.25 feet of LPH in monitoring well MW-5, and a true thickness of 0.24 feet of LPH in monitoring well MW-8. Monitoring wells MW-7 and MW-11 contained only a sheen on December 14, 2005. The product recovery test data and results are presented in Appendix 4.

7.0 GROUNDWATER MODELING

7.1 Domenico's Model

The Domenico's Model was utilized to determine site-specific target levels (SSTLs) for the source area. The SSTLs were calculated in the two previous Tier II investigations and can be reviewed in those reports.

7.2 Fate and Transport Modeling

The fate and transport modeling were conducted in the two previous Tier II investigations and can be reviewed in those reports and SCDHEC will conduct more fate and transport modeling using the new slug test data from this investigation.

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8.0 TIER II SITE EVALUATION

8.1 Site Conceptual Model and Exposure Points

A site conceptual exposure model was completed for the sites during the last tier II investigation and will be conducted by SCDHEC for this investigation.

8.2 Site Specific Point of Compliance

There are two primary exposure points for the George Souther's Grocery. Water supply well WSW-1 and an unnamed tributary of Motlow creek, located 250 feet to the northeast, are considered the primary exposure points for George Souther's Grocery. Currently water supply well WSW-1 is no longer used, but has yet to be plugged and abandoned. Groundwater in the site area occurs at depths ranging from 3 to 38 ft-bgs. Therefore, underground utilities could not be acting as conduits for groundwater flow except for the area north of Goodjoin and Lebanon Roads where groundwater is less than 15 ft-bgs.

Two points of compliance will be established for the petroleum hydrocarbon plume. Consultech recommends that monitoring wells MW-26 and MW-14R be established as the points of compliance between George Souther's Grocery and the unnamed tributary of Motlow creek located 250 feet to the northeast. Also, WSW-1 is not currently in use, and Consultech recommends that water supply well WSW-1 be permanently plugged and abandoned.

8.3 Natural Attenuation Parameters Evaluation

Between the dates of November 18, December 14, 2005, and April 5, 2006, dissolved oxygen concentrations measured ranged from 0.9 milligrams per liter (mg/l) in monitoring well MW-7 to 4.3 mg/l in monitoring well MW-19. Dissolved oxygen in distilled water was 7.6 mg/l. Comparison of Tables 4 and 5 shows that areas with deleted dissolved oxygen concentrations coincide with areas of elevated petroleum hydrocarbons concentrations, and high dissolved oxygen concentrations coincide with areas of low to nonexistent petroleum hydrocarbons concentrations. This is an indication that petroleum hydrocarbons beneath the site are being biodegraded by aerobic respiration.

Nitrate was present in 17 of 52 wells, with detectable concentrations ranging from 0.25 mg/l in MW-39 to 4.1 mg/l in MW-28. Therefore, nitrate is occurring naturally. Areas of depleted nitrate do not correlate with areas of elevated BTEX concentrations; therefore, there is no evidence that petroleum hydrocarbons beneath the site are being biodegraded through denitrification.

Ferrous iron was present in 10 of 52 monitoring wells. Detectable concentrations were less than 13 mg/l, indicating that dissolved iron is naturally occurring at low levels. Measured ferrous iron (Fe^{+2}) concentrations range from 0.11 mg/l in MW-38 to 2.01 mg/l in MW-32. Areas of elevated BTEX concentrations do not coincide with most areas of elevated ferrous iron (Fe^{+2}) concentrations. This suggests that ferric iron (Fe^{+3}) oxides are not being reduced to ferrous iron (Fe^{+2}) during biodegradation of petroleum hydrocarbons.

Sulfate was present in 18 of 52 wells, with detectable concentrations ranging from 1.6 mg/l in monitoring well MW-39 to 130 mg/l in monitoring well DW-2. The concentrations of sulfate are not consistently low in areas with elevated BTEX concentrations; therefore, there are no solid indications that anaerobic biodegradation of petroleum hydrocarbons is occurring by sulfate reduction.

8.4 Calculation of Site Specific Target Levels

SSTL Models were calculated in previous Tier II investigation and can be reviewed in those reports.

8.5 RBCA Site Classification

Based on the SCDHEC document "Risk Based Corrective Action for Petroleum Releases" dated May 15, 2001, Appendix A – RBCA Site Priority Classification System, Consultech classifies this release as a 3b. This site is classified as a 3b because free product exists in a monitoring well at a measured thickness greater than 0.01 feet. Also, ground water is encountered less than 15 feet below grade and the site is predominantly sand.

9.0 RECOMMENDATIONS

The George Souther's Grocery petroleum hydrocarbon plume has migrated approximately 300 feet southeast of the former tank pit area. The edge of the hydrocarbon plume is currently between monitoring well MW-30 and MW-45 for the shallow plume and deep well DW-5 for the deep plume.

Two points of compliance will be established for the petroleum hydrocarbon plume. Consultech recommends that monitoring wells MW-26 and MW-14R be established as the points of compliance between George Souther's Grocery and the unnamed tributary of Motlow creek located 250 feet to the northeast. Although DW-2 has not been delineated vertically, the groundwater is moving to the southeast and away from the tributary. Also, WSW-1 is not currently in use and Consultech recommends that water supply well WSW-1 be permanently plugged and abandoned.

Based on our Tier II Site Evaluation, corrective action appears to be necessary at the subject site. The Domenico's Model should be rerun on current concentrations to determine site-specific target levels (SSTLs) for the source area. The SSTLs were calculated in the previous Tier II investigation and can be reviewed in that report. In addition, monitoring wells MW-5, and MW-8 should have the LPH reduced to less than 0.01 feet of thickness in each well.

During the second Tier II Addendum in February 2006, groundwater samples were collected from soil borings GW-18 through GW-21 for EDB only. All four groundwater samples indicated small concentrations of EDB, however the EDB in these samples could be from pesticides in the soil above the groundwater used in the farmed fields beside these soil borings. On April 5, 2006, monitoring wells MW-44 and MW-45 were installed and sampled. The groundwater from the monitoring wells MW-44 and MW-45 indicated below detection limits for EDB indicating that the groundwater extent was delineated. In addition, monitoring well MW-34 was sampled since it had water. This Tier II Addendum was conducted to include the information for these three wells in the final report.

10.0 REFERENCES

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TABLES

TABLE 1
Well Construction Details and Groundwater Elevation Data (ft)
George Souther's Grocery
Campobello, SC - USTs #08650

Monitoring Well	Date	Depth of Screen Below Ground Surface	TOC Elevation	Depth to Product from TOC	Depth to Water from TOC	Groundwater Elevation
MW-1	08/30/02	7.0-17.0	96.50		dry	not applicable
	07/17/03		96.50		10.98	85.52
	08/31/05		96.50		12.02	84.48
	12/12/05		97.56		14.58	82.98
MW-2	08/30/02	7.0-17.0	99.98	17.35	17.45	82.53
	07/17/03		99.98		15.08	84.90
	08/31/05		99.98		16.00	83.98
	12/12/05		99.82		dry	dry
MW-3	08/30/02	9.0-19.0	97.02		dry	dry
	07/17/03		97.02		12.09	84.93
	08/31/05		97.02		13.02	84.00
	12/12/05		97.11		15.65	81.49
MW-4	08/30/02	9.0-19.0	91.37		17.71	73.66
	07/17/03		91.37		6.74	84.63
	08/31/05		91.37		8.28	83.09
	12/12/05		91.48		10.61	80.87
MW-5	08/30/02	9.5-19.5	93.54	18.8	19.01	74.53
	07/17/03		93.54		9.09	84.45
	08/31/05		93.54	9.79	10.00	83.54
	12/12/05		97.69	11.9	12.23	85.46
MW-6	08/30/02	9.0-19.0	92.1	16.82	16.64	75.46
	07/17/03		92.1	not located	not located	not located
	08/31/05		92.1	not located	not located	not located
MW-6R	12/13/05	5.0-20.0	91.98		11.18	80.80
MW-7	08/30/02	9.0-19.0	95.4	dry	dry	dry
	07/17/03		95.4		9.85	85.55
	08/31/05		95.4	10.86	10.87	84.53
	12/14/05		100.07	sheen	13.40	86.67
MW-8	08/30/02	8.0-18.0	99.71	dry	dry	dry
	07/17/03		99.71	13.62	13.90	85.81
	08/31/05		99.71		14.94	84.77
	12/12/05		99.76	17.6	17.86	81.90
MW-9	08/30/02	14.0-24.0	100.00	dry	dry	dry
	07/17/03		100.00		15.59	84.41
	08/31/05		100.00		16.36	83.64
	12/12/05		99.82		19.03	80.79

Monitoring Well	Date	Depth of Screen Below Ground Surface	TOC Elevation	Depth to Product from TOC	Depth to Water from TOC	Groundwater Elevation
MW-10	08/30/02	7.0-17.0	89.99		15.65	74.34
	07/17/03		89.99		3.68	86.31
	08/31/05		89.99	not located	not located	not located
MW-10R	12/12/05	2.0-17.0	89.88		5.45	84.43
MW-11	08/30/02	13-23	96.81	21.38	22.15	75.20
	07/17/03		96.81	9.75	10.00	86.81
	08/31/05		96.81	11.55	11.61	85.20
	12/12/05		101.58	sheen	14.69	86.89
MW-12	08/30/02	15.0-25.0	94.64		23.27	71.37
	07/17/03		94.64		11.77	82.87
	08/31/05		94.64		12.83	81.81
	12/13/05		95.31		15.93	79.38
MW-13	08/30/02	5.0-15.0	89.36	dry	dry	dry
	07/17/03		89.36		4.13	85.23
	08/31/05		89.36	not located	not located	not located
MW-13R	12/12/05	2.0-17.0	93.29		9.82	83.47
MW-14	08/30/02	10.0-25.0	86.13		13.53	72.60
	07/17/03		86.13		3.75	82.38
	08/31/05		86.13	not located	not located	not located
MW-14R	12/13/05	2.0-17.0	85.39		3.21	82.18
MW-15	08/30/02	10.0-25.0	87.34		12.68	74.66
	07/17/03		87.34		2.74	84.60
	08/31/05		87.34	not located	not located	not located
MW-15R	12/14/05	2.0-17.0	91.30		7.70	83.60
MW-16	08/30/02	15.0-35.0	98.91		23.88	75.03
	07/17/03		98.91		12.22	86.69
	08/31/05		98.91		13.70	85.21
	12/12/05		99.09		16.67	82.42
MW-17	08/30/02	15.0-35.0	94.55		21.30	73.25
	07/17/03		94.55		9.80	84.75
	08/31/05		94.55		11.77	82.78
	12/12/05		100.26		13.16	87.10
MW-18	08/30/02	15.0-35.0	101.00		29.62	71.38
	07/17/03		101.00		18.37	82.63
	08/31/05		101.00	not located	not located	not located
MW-18R	12/12/05	15.0-30	107.22		26.89	80.33
MW-19	08/30/02	20.0-40.0	104.73		31.10	73.63
	07/17/03		104.73		19.22	85.51
	08/31/05		104.73		20.72	84.01
	12/12/05		104.69		23.27	81.42

Monitoring Well	Date	Depth of Screen Below Ground Surface	TOC Elevation	Depth to Product from TOC	Depth to Water from TOC	Groundwater Elevation
MW-20	08/30/02	16.0-36.0	106.90		32.96	73.94
	07/17/03		106.90		20.95	85.95
	08/31/05		106.90		22.74	84.16
	12/12/05		107.20		25.29	81.91
MW-21	07/17/03	5.0-20.0	89.39		4.76	84.63
	08/31/05		89.39		6.01	83.38
	12/12/05		88.91		6.26	82.65
MW-22	07/17/03	5.0-20.0	93.05		6.60	86.45
	08/31/05		93.05		8.24	84.81
	12/12/05		93.34		8.37	84.97
MW-23	07/17/03	8.0-23.0	99.43		12.69	86.74
	08/31/05		99.43		14.13	85.30
	12/12/05		100.07		16.70	83.37
MW-24	07/17/03	5.0-20.0	89.60		5.74	83.86
	08/31/05		89.60		7.45	82.15
	12/12/05		92.02		7.03	84.99
MW-25	07/17/03	5.0-20.0	90.59		5.37	85.22
	08/31/05		90.59		8.30	82.29
	12/12/05		92.81		7.99	84.82
MW-26	12/13/05	2.0-17.0	89.42		7.54	81.88
MW-27	12/13/05	2.0-17.0	91.8		11.24	80.56
MW-28	12/13/05	10.0-25.0	93.1		12.61	80.49
MW-29	12/13/05	15.0-30.0	99.81		21.34	78.47
MW-30	12/13/05	15.0-30.0	103.5		26.40	77.10
MW-31	12/13/05	15.0-30.0	101.05		23.01	78.04
MW-32	12/13/05	15.0-30.0	101.72		21.34	80.38
MW-33	12/13/05	25.0-40.0	109.05		34.72	74.33
MW-34	12/13/05	25.0-40.0	106.31		dry	dry
	04/05/06	25.0-40.0	106.31		26.06	80.25
MW-35	12/13/05	15.0-30.0	105.02		21.04	83.98
MW-36	12/13/05	10.0-25.0	98.99		15.65	83.34
MW-37	12/14/05	2.0-17.0	98.21		14.50	83.71
MW-38	12/14/05	2.0-17.0	99.6		16.51	83.09
MW-39	12/14/05	2.0-17.0	94.98		12.06	82.92
MW-40	12/14/05	25.0-40.0	110.46		34.80	75.66
MW-41	12/14/05	25.0-40.0	102.02		34.80	67.22
MW-42	12/14/05	25.0-40.0	101.91		34.41	67.50
MW-43	12/14/05	25.0-40.0	93.34		27.22	66.12
MW-44	04/05/06	20.0-35.0	112.23		33.31	78.92
MW-45	04/05/06	15.0-30.0	103.78		27.92	75.86

Monitoring Well	Date	Depth of Screen Below Ground Surface	TOC Elevation	Depth to Product from TOC	Depth to Water from TOC	Groundwater Elevation
DW-1	12/14/05	85.0-90.0	92.89		20.21	72.68
DW-2	12/14/05	70.0-75.0	91.95		13.03	78.92
DW-3	12/14/05	60.0-65.0	101.41		22.64	78.77
DW-4	12/14/05	62.0-67.0	99.8		32.12	67.68
DW-5	12/14/05	70.0-75.0	98.64		28.41	70.23
DW-6	12/14/05	70.0-75.0	101.86		43.52	58.34
RW-1	08/30/02	15.0-30.0	96.29	20.61	25.10	71.19
	07/17/03		96.29		10.81	85.48
	12/12/05		96.62		14.97	81.65
PW-1	08/30/02	45.0-47.0	97.96		21.93	76.03
	07/17/03		97.96		10.63	87.33
	08/31/05		97.96		11.86	86.10
	12/12/05		96.59		14.78	81.81
PW-2	08/30/02	70.0-75.0	97.59		23.45	74.14
	07/17/03		97.59		12.84	84.75
	08/31/05		97.59		14.69	82.90
	12/12/05		97.77		16.16	81.61

Note: Monitoring wells MW-44 and MW-45 were surveyed by Consultech and tied into original survey.

Table 2
PID Field Readings
George Souther's Grocery
Campobello, SC - USTs #08650

Sample	Date	4'	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	Water Sample PID	Total Depth
SB-1	08/30/05	102.0	107.0	222.0	891.0	691.0												891	20'
SB-2	08/30/05	0.5	0.6	2.9	10.7	15.8	8.1											8	24'
SB-3	08/31/05	0.7	0.6	0.4	4	5.1	2.6											3.1	24'
SB-4	08/31/05	0.7	0.7	1.1	1.2	0.5												refusal	20'
SB-5	08/31/05	0.5	0.6	0.9	1.1	0.9												refusal	18'
SB-6	08/31/05	0.7	0.9	0.8	1.2	0.7												refusal	19'
SB-7	08/31/05	1.1	1.1	0.9	1	1												refusal	18'
SB-8	08/31/05	0.7	3.2	107.0	498.0	313.0												498.0	20'
SB-9	08/31/05	0.5	0.5	56.8	58.2	112.0												58.2	20'
SB-10	08/31/05	0.8	0.7	1.4	4.3	3.7	1.9											4.3	22'
SB-11	08/31/05	158.0	239.0	47.4	149.0	101												149	20'
SB-12	08/31/05	1.2	3.4	15.8	21.7	1.1	19.9											1.1	24'
SB-13	08/31/05	1.6	2.1	6.4	6.6	3.1	1.9											3.1	24'
SB-14	08/31/05	0.9	0.7	1.8	1.2	2.0												1.6	20'
SB-15	08/31/05	0.7	0.9	1.4	1.8	2.6												1.9	20'
SB-16	08/31/05	1.1	0.9	1.3	1.4	2.2												1.9	20'
SB-17	09/01/05	1.1	2.4	3.8	12.4	21.5												12.4	20'
SB-18	09/01/05	0.9	2.8	3.4	5.4	6.1												5.4	20'
SB-19	09/01/05	0.3	1.8	5.7														1.8	12'
SB-20	09/01/05	0.7	1.4	1.9														1.4	12'
SB-21	09/01/05	0.9	1.1	2.8														1.1	12'
SB-22	09/01/05	1.8	2.4	16.2	19.7													16.2	16'
SB-23	09/01/05	1.4	3.8	5.1	6.1													5.1	12'
SB-24	09/01/05	1.7	2.5	2.4	4.1													2	16'
SB-25	10/20/05	0.4	0.5	365.0	138.0	12	18	7.4	4.1	4.4	3.8							365	54'
SB-26	10/20/05	70.2	395.0	899	364	222	727	198.0	14.8	12.6	6.7							363.0	49'
SB-27	10/20/05	1.3	12.5	24.3	87.3	218.0	557	152	21.8	5.3	4.9	4.9						87	58'
SB-28	10/20/05	1.8	5.4	9.3	14.6	11.3												9	25'
SB-29	10/20/05	2.3	1.7	3.4	4.2	1.9												3	25'
SB-30	10/20/05	9.4	18.4	211.0	145.0	38.7												211	25'
SB-31	10/20/05	2.3	1.9	10.3	6.5	3.1												10.3	25'
SB-32	10/20/05	2.1	2.4	1.7	3.1	2.6												1.7	25'
SB-33	10/21/05	3.5	7.3	142.0	27.9													142	20'
SB-34	10/21/05	3.9	148.0	537.0	241.0													537	20'
SB-35	10/21/05	44.5	657.0	918.0	747.0	59	22	169	16	9	7	6						657	51'
SB-36	10/25/05	4.2	298.0	467.0	55.6	142.0	19.0	4.6	4.9	4.6	6.1	3.7	4.1	3.8				298.0	62'
SB-37	10/25/05	2.5	4.1	2.3														4.1	15'
SB-38	10/25/05	2.1	2.5	2.3														2.5	15'
SB-39	10/25/05	1.9	2.8	2.5														2.8	15'
SB-40	10/25/05	2.0	2.3	2.3														2.3	15'
SB-41	10/25/05	3.1	12.7	4.9														12.7	15'
SB-42	10/25/05	1.9	3.1	2.7														3	15'
SB-43	10/31/05	1.6	2.4	2.4	2.8	2.6	1.8	2.1										2	35'
SB-44	10/31/05	3.0	3.3	3.7	4.0	3.4	3.3	3.1										3.1	35'
SB-45	10/31/05	2.8	2.9	3.4	2.7	3.4	3.3	3.1										3.1	35'

Sample	Date	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	Water Sample PID	Total Depth
GW-01	09/01/05																	NA	20
GW-02	09/01/05																	NA	30'
GW-03	09/01/05																	NA	24'
GW-04	09/02/05																	NA	16'
GW-05	09/02/05																	NA	27'
GW-06	09/02/05																	NA	18'
GW-07	09/02/05																	NA	18'
GW-08	10/20/05																	NA	24'
GW-09	10/20/05																	NA	24'
GW-10	10/20/05																	NA	28'
GW-11	10/21/05																	NA	28'
GW-12	10/21/05																	NA	17'
GW-13	10/21/05																	NA	15'
GW-14	10/21/05																	NA	15'
GW-15	10/21/05																	NA	15'
GW-16	10/31/05																	NA	39'
GW-17	10/31/05																	NA	39'
GW-18	02/01/06																	NA	35'
GW-19	02/01/06																	NA	30'
GW-20	02/01/06																	NA	30'
GW-21	02/01/06																	NA	30'

GW borings are direct-push groundwater samples only

Table 3
BTEX and PNA Analytical Results (ug/kg)
George Souther's Grocery
Campobello, SC - UST #08650

Sample	Date	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene
RBSL		*374*	*24,170*	*2,229,000*	*353,600*	*584*
SB-1	07/23/02	<8.2	<8.2	<8.2	<8.2	<8.2
SB-3	07/23/02	<6.8	<6.8	<6.8	<6.8	<6.8
SB-5	07/23/02	<6.4	<6.4	<6.4	<6.4	<6.4
SB-6	07/24/02	<4.9	<4.9	<4.9	<4.9	<4.9
SB-7	07/24/02	<5.1	<5.1	<5.1	<5.1	<5.1
SB-8	07/24/02	<6.0	<6.0	<6.0	<6.0	<6.0
SB-9	07/24/02	<5.8	<5.8	<5.8	<5.8	<5.8

Table 4
Groundwater Field Parameter Measurements
George Souther's Grocery
Campobello, SC - UST #08650

Well Number	Date	Dissolved oxygen mg/l	pH	Temperature Degrees Celcius	Conductivity us/cm
MW-1	11/18/05	2.1	5.3	18.2	105
MW-2	11/22/05	dry	dry	dry	dry
MW-3	11/18/05	1.9	7.1	19.3	85
MW-4	11/18/05	2.6	5.1	18.3	113
MW-5	11/18/05	FP	FP	FP	FP
MW-6R	11/22/05	3.7	5.1	19.1	129
MW-7	11/18/05	0.9	4.8	18.6	193
MW-8	11/18/05	FP	FP	FP	FP
MW-9	11/18/05	1.4	5.3	19.2	123
MW-10R	12/14/05	4.2	5.8	18.4	65
MW-11	11/23/05	3.7	4.8	18.9	136
MW-12	12/06/05	4.0	5.6	19.3	229
MW-13R	11/22/05	2.8	4.8	19.6	78
MW-14R	12/07/05	3.1	5.1	19.4	216
MW-15R	12/07/05	3.7	6.9	20.1	341
MW-16	12/06/05	4.2	5.9	20.0	169
MW-17	11/18/05	3.6	5.4	19.2	29
MW-18R	11/22/05	3.5	4.7	18.7	143
MW-19	11/23/05	4.3	4.7	21.1	433
MW-20	11/23/05	2.9	5.5	20.2	456
MW-21	11/23/05	3.6	5.3	19.8	255
MW-22	11/23/05	3.2	5.5	20.2	94
MW-23	12/06/05	3.0	4.7	19.6	103
MW-24	12/06/05	4.1	6.1	19.6	301
MW-25	12/06/05	2.8	4.7	19.2	86
MW-26	12/07/05	3.8	5.9	19.9	91
MW-27	11/22/05	3.4	5.2	18.3	143
MW-28	11/22/05	3.6	5.8	18.1	469
MW-29	12/07/05	3.2	5.3	19.2	119
MW-30	11/22/05	3.0	5.5	19.6	220
MW-31	11/22/05	2.3	6.0	18.1	86
MW-32	12/07/05	3.1	6.4	18.4	94
MW-33	12/12/05	3.6	7	19.1	131
MW-34	12/12/05	dry	dry	dry	dry
	04/05/06	2.8	5.8	18.6	79
MW-35	11/22/05	3.3	6.3	18	69

Well Number	Date	Dissolved oxygen mg/l	pH	Temperature Degrees Celcius	Conductivity us/cm
MW-36	11/22/05	3.0	6.1	17.5	125
MW-37	11/22/05	2.9	5.9	18.4	211
MW-38	11/22/05	2.9	6.4	17.9	106
MW-39	11/22/05	3.1	7.1	18.3	113
MW-40	12/12/05	3.4	18	18.6	162
MW-41	11/22/05	3.8	6.1	20.1	168
MW-42	11/22/05	3.9	5.2	18.1	303
MW-43	11/22/05	2.4	4.7	18.7	121
MW-44	04/05/06	3.7	6.4	18.2	74
MW-45	04/05/06	3.2	6.8	19.0	113
PW-1	12/06/05	1.7	4.7	18.3	328
PW-2	12/06/05	3.0	8.1	17.9	174
DW-1	12/14/05	2.8	6.3	19.4	93
DW-2	12/12/05	3.0	7.2	19.3	44
DW-3	12/14/05	2.6	7.4	18.2	110
DW-4	12/12/05	3.6	6.7	18.6	234
DW-5	12/14/05	2.4	7	18.2	245
DW-6	12/14/05	3.0	6.3	17.8	62

Note: 1) The temperature was measured in degrees Celcius

2) NA - Not available

Table 5
BTEX and PNA Groundwater Analytical Results (ug/l)
George Souther's Grocery
Campobello, SC - UST #08650

Sample	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Napthalenes	1,2 DCA
RBSL		*5*	*1,000*	*700*	*10,000*	*40*	*25*	*NA*
MW-1	08/30/02	dry	dry	dry	dry	dry	dry	dry
	07/18/03	**49,000**	**180,000**	**31,000**	**180,000**	**9,600**	**23,000**	NA
	11/18/05	**45,000**	**620,000**	**22,000**	**108,000**	**10,000**	**6,200**	<2500
MW-2	08/30/02	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	07/18/03	**43,000**	**62,000**	**5,000**	**27,000**	**7,600**	**7,600**	NA
	11/22/05	**dry**	**dry**	**dry**	**dry**	**dry**	**dry**	dry
MW-3	08/30/02	dry	dry	dry	dry	dry	dry	dry
	07/18/03	**44,000**	**60,000**	**4,200**	**24,000**	**<2500**	**7,100**	NA
	11/18/05	**36,000**	**46,000**	**1,700**	**11,800**	<1.0	**2,600**	1300.0
MW-4	11/18/03	<5.0	<5.0	<5.0	<5.0	<5.0	<20.0	NA
	07/18/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	11/18/05	**6.4**	28.0	4.0	26.0	3.6	12	<5.0
MW-5	08/30/02	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	07/18/03	**46,000**	**92,000**	**13,000**	**86,000**	**<5000**	**22000**	NA
	11/18/05	**40,000**	**59,000**	**3,200**	**18,000**	**<500**	**5,500**	1,400
MW-6	08/30/02	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	07/18/03	not located	not located	not located	not located	not located	not located	not located
MW-6R	11/22/05	**15**	480	**140**	790	<10	**79**	<50
MW-7	08/30/02	dry	dry	dry	dry	dry	dry	dry
	07/18/03	**36,000**	**75,000**	**5,300**	**30,000**	**<2500**	**8600**	NA
	11/18/05	**35,000**	**71,000**	**3,500**	**20,400**	**<500**	**2700**	<2500
MW-8	08/30/02	dry	dry	dry	dry	dry	dry	dry
	07/18/03	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/23/05	**57,000**	**380,000**	**34,000**	**167,000**	**<500**	**12,000**	<2500
MW-9	08/30/02	dry	dry	dry	dry	dry	dry	dry
	07/18/03	**28,000**	**23,000**	**1,500**	9,500	**<500**	**1500**	NA
	11/18/05	**25,000**	**22,000**	**1,100**	7,600	**<500**	**2,600**	1,300
MW-10	08/29/02	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	07/18/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
MW-10R	12/14/05	<1.0	<1.0	<1.0	3.8	<1.0	5.0	<5.0
MW-11	08/29/02	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	07/18/03	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/23/05	**<50**	120	**1300**	9400	**<50**	**1100**	<250
MW-12	08/29/02	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	07/18/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	12/06/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
MW-13	08/29/02	dry	dry	dry	dry	dry	dry	dry
	07/18/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
MW-13R	11/22/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0

Sample	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Napthalenes	1,2 DCA
MW-14	08/29/02	<5.0	<5.0	<5.0	7.5	<5.0	<5.0	NA
	07/18/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
MW-14R	12/07/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
MW-15	08/29/02	**200**	<5.0	<5.0	170	17	<5.0	NA
	07/18/03	**130**	<5.0	<5.0	63.0	<5.0	<5.0	NA
MW-15R	12/07/05	3.2	<1.0	<1.0	3.8	<1.0	<5.0	<5.0
MW-16	08/29/02	<5.0	<5.0	<5.0	13	<5.0	<5.0	NA
	07/18/03	<5.0	27	20	95	<5.0	<5.0	NA
	12/06/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
MW-17	08/29/02	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	07/17/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	11/18/05	**7.8**	32	5.2	32	<1.0	13	<5.0
MW-18	08/29/02	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	07/17/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
MW-18R	11/22/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
MW-19	08/29/02	**400**	51	8	100	<5.0	**37**	NA
	07/17/03	**18**	88	55	290	<5.0	<5.0	NA
	11/23/05	**6.8**	3	<1.0	28	<1.0	<5.0	<5.0
MW-20	08/29/02	**7.0**	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	07/17/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	11/23/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
MW-21	07/17/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	11/23/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
MW-22	07/17/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	11/23/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
MW-23	07/17/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	12/06/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
MW-24	07/18/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	12/06/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
MW-25	07/18/03	**6**	130	55	250	<5.0	**26**	NA
	12/06/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
MW-26	12/07/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
MW-27	11/22/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
MW-28	11/22/05	**94**	**9,900**	**2,600**	**13,800**	**<50**	**1,100**	<250
MW-29	12/7//05	**13,000**	**16,000**	**1,000**	**5,400**	<10	**430**	380
MW-30	11/22/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
MW-31	11/22/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
MW-32	12/07/05	**36,000**	**52,000**	**3,200**	**18,600**	**<500**	**2,900**	<2500
MW-33	12/12/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
MW-34	12/12/05	dry	dry	dry	dry	dry	dry	dry
	04/05/06	<1.0	1.2	<1.0	<1.0	<1.0	<5.0	<5.0
MW-35	11/22/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
MW-36	11/22/05	**<500**	**5,800**	**1,300**	8,500	**<500**	**2,500**	<2500

Sample	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Napthalenes	1,2 DCA
MW-37	11/22/05	<1.0	4.8	2.4	5.8	<1.0	<5.0	<5.0
MW-38	11/22/05	<1.0	1.9	1.1	7.6	<1.0	5.0	<5.0
MW-39	11/22/05	1	33.0	3.9	17.6	<1.0	<5.0	<5.0
MW-40	12/12/05	**5.2**	37	4.0	13.1	<1.0	5.4	<5.0
MW-41	11/22/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
MW-42	11/22/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
MW-43	11/22/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
MW-44	11/22/05	<1.0	1.2	<1.0	1.2	1.7	13.0	<5.0
MW-45	11/22/05	<1.0	1.1	<1.0	<1.0	<1.0	<5.0	<5.0
PW-1	08/30/02	**1,600**	50	49	280	<5.0	**31**	NA
	07/17/03	**1,100**	<5.0	8	30	<5.0	24	NA
	12/06/05	<1.0	3.1	<1.0	5.9	<1.0	<5.0	<5.0
RW-1	08/30/02	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	NA
	07/17/03	**13,000**	**14,000**	**2,100**	**14,000**	**<500**	**1,500**	NA
	12/06/05	**9,500**	**54,000**	**6,400**	**35,000**	**<500**	**3,400**	<2500
PW-2	07/17/03	<5.0	<5.0	<5.0	<5.0	<5.0	15	NA
	12/06/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
DW-1	12/14/05	**900**	50	6	36	<1.0	**62**	<5.0
DW-2	12/12/05	**400**	310	78	490	<1.0	**25**	<5.0
DW-3	12/14/05	**22**	140	13	93	<1.0	8	<5.0
DW-4	12/12/05	**640**	**4,700**	**620**	4,400	<1.0	**310**	<5.0
DW-5	12/14/05	**1,200**	71	14	84	<1.0	**100**	<5.0
DW-6	04/20/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
GW-01	09/01/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	NA
GW-02	09/01/05	**10**	3.5	<1.0	<2.0	<1.0	<5.0	NA
GW-03	09/01/05	**18**	10	<1.0	4.0	<1.0	<5.0	NA
GW-04	09/01/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	NA
GW-05	09/01/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	NA
GW-06	09/01/05	1.1	<1.0	<1.0	<2.0	<1.0	<5.0	NA
GW-07	09/01/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	NA
GW-08	10/20/05	<1.0	1.3	<1.0	<2.0	<1.0	<5.0	NA
GW-09	10/20/05	<1.0	4.8	1.7	5.5	<1.0	<5.0	NA
GW-10	10/20/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	NA
GW-11	10/20/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	NA
GW-12	10/21/05	**290**	**6,900**	**1,000**	6,200	<1.0	**54**	NA
GW-13	10/21/05	1.1	15	1.3	5.6	<1.0	<5.0	NA
GW-14	10/21/05	1.8	27	2.4	10.6	<1.0	<5.0	NA
GW-15	10/21/05	1.8	25.0	2.1	9.3	<1.0	<5.0	NA
GW-16	10/31/05	<1.0	10	<1.0	4.3	<1.0	<5.0	NA
GW-17	10/31/05	<1.0	5.4	<1.0	2.5	<1.0	<5.0	NA

Table 6
Groundwater Natural Attenuation, EDB, and Lead Results
George Souther's Grocery
Columbia, SC - UST #08650

Well Number	Date	EDB (ug/l)	Total 8-Oxygenates	Total Lead (mg/l)	Nitrate (mg/l)	Sulfate (mg/l)	Dissolved Iron (mg/l)	Methane (mg/l)
RBSL		0.05	NA	0.015	NA	NA	N/A	N/A
MW-1	08/30/02	dry	dry	dry	dry	dry	dry	dry
	11/18/05	**0.322**	82000	**0.402**	NA	NA	NA	NA
MW-2	08/30/02	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/22/05	dry	dry	dry	dry	dry	dry	dry
MW-3	08/30/02	dry	dry	dry	dry	dry	dry	dry
	11/18/05	**1**	192,040	**0.071**	NA	NA	NA	NA
MW-4	08/30/02	NA	NA	NA	NA	NA	NA	NM
	11/18/05	**0.211**	60	0.001	NA	NA	NA	NA
MW-5	08/30/02	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/18/05	**1280**	318,000	**0.512**	NA	NA	NA	NA
MW-6	08/30/02	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-6R		**0.057**	600	0.012	<0.25	9.7	0.182	<0.004
MW-7	08/30/02	dry	dry	dry	dry	dry	dry	dry
	11/18/05	**0.246**	89000	0.078	NA	NA	NA	NA
MW-8	08/30/02	dry	dry	dry	dry	dry	dry	dry
	11/23/05	**1140**	71000	**0.457**	NA	NA	NA	NA
MW-9	08/30/02	dry	dry	dry	dry	dry	dry	dry
	11/18/05	**0.802**	118,550	0.0031	NA	NA	NA	NA
MW-10	08/29/02	<0.021	NA	**1.0**	<0.020	6.4	0.58	NA
MW-10R	12/14/05	<0.020	175	0.0013	<5.0	37	<1.0	<0.004
MW-11	08/29/02	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/23/05	<0.020	2,950.0	**0.077**	NA	NA	NA	NA
MW-12	08/29/02	<0.020	NA	**0.087**	0.02	<1.0	1.0	NA
	12/06/05	<0.02	60.0	<0.001	NA	NA	NA	NA

Well Number	Date	EDB (ug/l)	Total 8-Oxygenates	Total Lead (mg/l)	Nitrate (mg/l)	Sulfate (mg/l)	Dissolved Iron (mg/l)	Methane (mg/l)
MW-13	08/29/02	dry	dry	dry	dry	dry	dry	dry
MW-13R	11/22/05	0.041	62	<0.001	0.26	3.7	0.605	<0.004
MW-14	08/29/02	<0.019	NA	**0.036**	0.33	1.8	0.23	NA
MW-14R	12/07/05	<0.020	60.0	**0.052**	<0.25	24	0.217	<0.004
MW-15	08/29/02	<0.02	NA	<0.003	0.51	3.9	0.12	NA
MW-15R	12/07/05	0.048	60	**0.084**	<0.25	25	<0.1	<0.004
MW-16	08/29/02	<0.020	NA	**0.13**	1.8	1.5	0.16	NA
	12/06/05	<0.020	60.0	<0.001	NA	NA	NA	NA
MW-17	08/29/02	<0.019	NA	0.0076	13	1.6	0.15	NA
	11/18/05	**0.239**	60	0.0027	NA	NA	NA	NA
MW-18	08/28/02	<0.020	NA	**0.067**	15	2.1	0.24	NA
MW-18R	11/22/05	0.02	60	0.011	0.81	<1.0	<0.10	<0.0040
MW-19	08/28/02	<0.019	NA	**0.42**	<0.02	3.3	0.72	NA
	11/23/05	<0.020	60	0.0031	NA	NA	NA	NA
MW-20	08/29/02	<0.019	NA	**0.063**	<0.020	3.8	5.9	NA
	11/23/05	<0.020	60	<0.001	NA	NA	NA	NA
MW-21	11/23/05	<0.020	60	<0.001	NA	NA	NA	NA
MW-22	11/23/05	<0.020	60	<0.001	NA	NA	NA	NA
MW-23	12/06/05	<0.020	60	**0.023**	NA	NA	NA	NA
MW-24	12/06/05	<0.020	60	<0.001	NA	NA	NA	NA
MW-25	12/06/05	<0.020	60	<0.001	NA	NA	NA	NA
MW-26	12/06/05	<0.020	60	0.006	NA	NA	NA	NA
MW-27	11/22/05	<0.020	62.4	0.0043	13	1.9	<0.1	<0.004
MW-28	11/22/05	<0.020	2,950	0.0059	4.1	39	<0.1	0.5
MW-29	12/07/05	**0.179**	6810	**0.034**	<0.25	<1.0	<0.1	0.007
MW-30	11/22/05	**0.158**	93	**0.061**	<0.25	<1.0	<0.1	<0.004
MW-31	11/22/05	<0.02	60	**0.189**	0.66	4.8	0.199	<0.004
MW-32	12/07/05	**0.578**	33,000	**0.164**	<0.25	13	2.01	0.013

Well Number	Date	EDB (ug/l)	Total 8-Oxygenates	Total Lead (mg/l)	Nitrate (mg/l)	Sulfate (mg/l)	Dissolved Iron (mg/l)	Methane (mg/l)
MW-33	12/12/05	<0.020	168	0.0035	<0.25	6.8	<0.10	<0.004
MW-34	12/12/05	dry	dry	dry	dry	dry	dry	dry
	04/05/06	<0.019	<25	<0.01	NA	NA	NA	NA
MW-35	11/22/05	<0.020	60	0.002	<0.25	3.8	<0.1	0.011
MW-36	11/22/05	<0.02	<29,500	**0.661**	<0.25	4.9	<0.1	0.015
MW-37	11/22/05	<0.020	60	**0.015**	0.33	1.9	<0.1	<0.004
MW-38	11/22/05	<0.02	60	**0.614**	0.33	3.9	0.109	<0.004
MW-39	11/22/05	<0.02	60.0	0.013	0.25	1.6	<0.1	<0.004
MW-40	12/12/05	**0.13**	55	**0.099**	0.9	8.5	<0.10	<0.004
MW-41	11/22/05	<0.02	60	<0.001	0.28	<1.0	<0.1	<0.004
MW-42	11/22/05	<0.02	60	0.0028	0.41	<1.0	<0.1	<0.004
MW-43	11/22/05	<0.02	60.0	<0.013	0.71	<1.0	<0.1	<0.004
MW-44	04/05/06	<0.019	<25	**0.43**	NA	NA	NA	NA
MW-45	04/05/06	<0.019	<25	**0.0705**	NA	NA	NA	NA
DW-1	12/14/05	**0.184**	356	0.0011	<0.25	<1.0	<0.1	0.0046
DW-2	12/12/05	**0.568**	264	0.00357	<12	130	<0.10	0.0052
DW-3	12/14/05	<0.020	108.0	0.94	2.5	<0.1	<0.1	<0.004
DW-4	12/12/05	**11.6**	325	0.013	<0.25	27	0.226	<0.004
DW-5	12/14/05	**0.893**	450	<0.001	<0.25	<1.0	<0.1	0.0051
DW-6	12/12/05	<0.020	55	0.0045	<0.25	68	<0.10	<0.004
PW-1	08/30/02	<0.019	NA	0.0089	<0.02	8	1.5	NA
	12/06/05	<0.02	1,235	**<0.037**	NA	NA	NA	NA
PW-2	08/30/02	<0.020	NA	**0.15**	NA	NA	NA	NM
	12/06/05	**0.063**	136	<0.001	NA	NA	NA	NA
RW-1	08/30/02	FP	FP	FP	FP	FP	FP	FP
	12/06/05	0.014	13,850	**0.018**	NA	NA	NA	NA
GW-18	02/01/06	**0.19**	NA	NA	NA	NA	NA	NA
GW-19	02/01/06	**0.18**	NA	NA	NA	NA	NA	NA
GW-20	02/01/06	**0.098**	NA	NA	NA	NA	NA	NA
GW-21	02/01/06	**0.051**	NA	NA	NA	NA	NA	NA

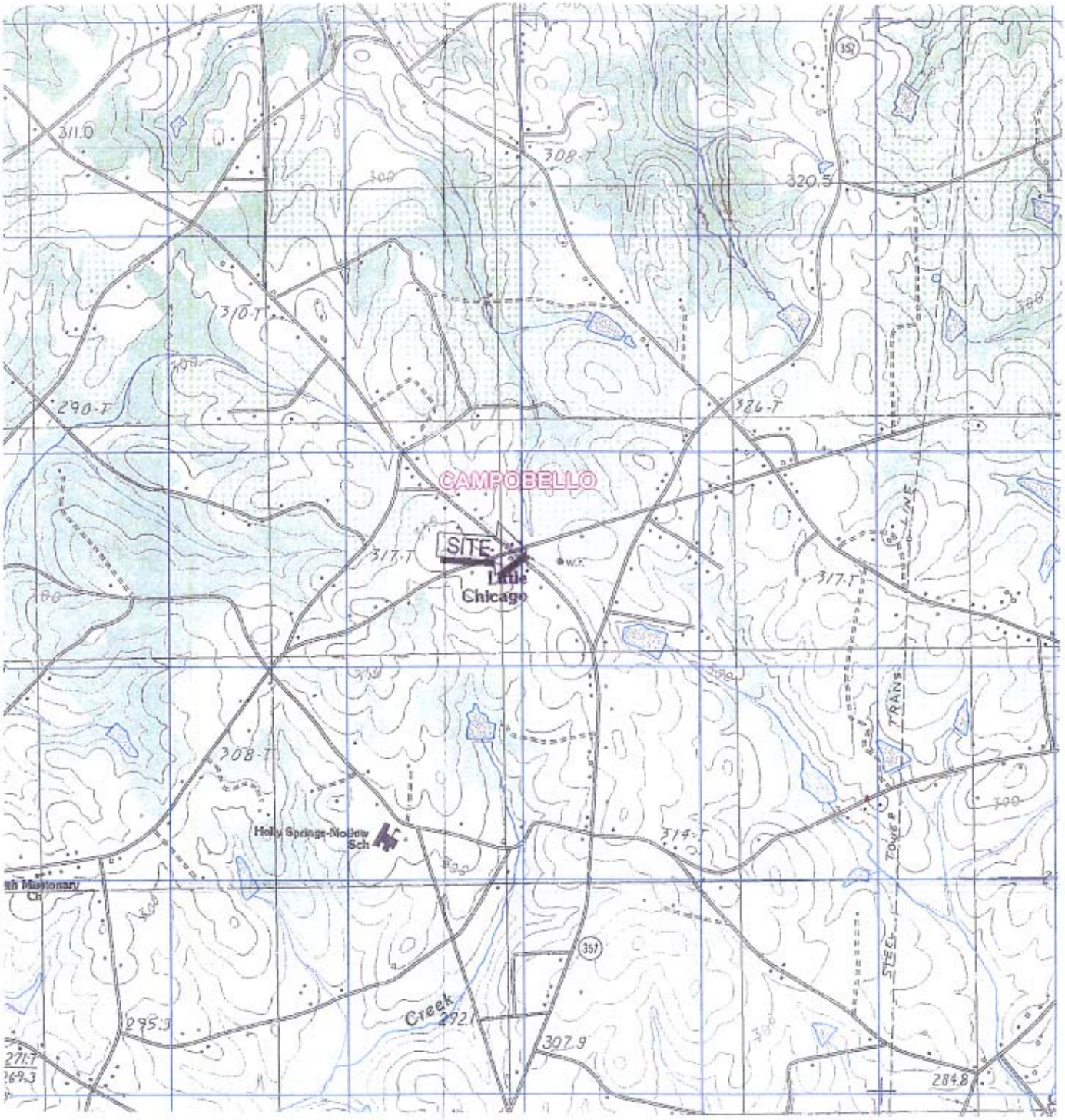
Table 7
Groundwater 8 - Oxygenates
George Souther's Grocery
Campobello, SC - UST #08650

Well Number	Date	Ethyl-t-butylether (ug/l)	Tert-amyl methyl ether (ug/l)	Tertiary butyl alcohol (ug/l)	Ethanol (ug/l)	T-amyl alcohol (ug/l)	T-butyl Formate (ug/l)	Ethyl-t-butyl alcohol (ug/l)	Diisopropyl ether (ug/l)
RBSL		NA	NA	NA	NA	NA	N/A	NA	N/A
MW-1	11/18/05	<2500	<2500	<2500	<12000	<2500	<2500	<2500	52000
MW-2	11/22/05	dry	dry	dry	dry	dry	dry	dry	dry
MW-3	11/18/05	<5.0	<5.0	13000	<25	120000	<5.0	35000	24000
MW-4	11/18/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-5	11/18/05	<2500	<2500	<2500	<12000	230000	<2500	37000	29000
MW-6R	11/22/05	<50	<50	<50	<250	<50	<50	<50	2900
MW-7	11/18/05	<2500	<2500	<2500	<12000	<2500	<2500	<2500	62000
MW-8	11/23/05	<2500	<2500	<2500	<12000	<2500	<2500	<2500	44000
MW-9	11/18/05	<2500	<2500	<2500	<12000	97000	<2500	<2500	8300
MW-10R	12/14/05	<5.0	<5.0	<5.0	<25	120	<5.0	<5.0	<5.0
MW-11	11/23/05	<250	<250	<250	<1200	<250	<250	<250	<250
MW-12	12/6/2005	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-13R	11/22/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	6.9
MW-14R	12/07/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-15R	12/07/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-16	12/6/2005	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-17	11/18/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-18R	11/22/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-19	11/23/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-20	11/23/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0

Well Number	Date	Ethyl-t-butylether (ug/l)	Tert-amyl methyl ether (ug/l)	Tertiary butyl alcohol (ug/l)	Ethanol (ug/l)	T-amyl alcohol (ug/l)	T-butyl Formate (ug/l)	Ethyl-t-butyl alcohol (ug/l)	Diisopropyl ether (ug/l)
MW-21	11/23/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-22	11/23/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-23	12/6/2005	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-24	12/6/2005	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-25	12/6/2005	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-26	12/6/2005	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-27	11/22/05	<5.0	7.4	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-28	11/22/05	<2500	<2500	<2500	<12000	<2500	<2500	<2500	<2500
MW-29	12/06/05	<50	<50	860	<250	<50	<50	2600	2900
MW-30	11/22/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	38
MW-31	11/22/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-32	12/07/05	<2500	<2500	<2500	<12000	<2500	<2500	<2500	11000
MW-33	12/12/05	<5.0	<5.0	54	<25	64	<5.0	<5.0	<5.0
MW-34	12/12/05	dry	dry	dry	dry	dry	dry	dry	dry
	04/05/06	<5.0	<5.0	<25	<100	<25	<25	<25	<5.0
MW-35	11/22/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-36	11/22/05	<2500	<2500	<2500	<12000	<2500	<2500	<2500	<2500
MW-37	11/22/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-38	11/22/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-39	11/22/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-40	12/12/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-41	11/22/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-42	11/22/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-43	11/22/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-44	04/05/06	<5.0	<5.0	<25	<100	<25	<25	<25	<5.0
MW-45	04/05/06	<5.0	<5.0	<25	<100	<25	<25	<25	<5.0

Well Number	Date	Ethyl-t-butylether (ug/l)	Tert-amyl methyl ether (ug/l)	Tertiary butyl alcohol (ug/l)	Ethanol (ug/l)	T-amyl alcohol (ug/l)	T-butyl Formate (ug/l)	Ethyl-t-butyl alcohol (ug/l)	Diisopropyl ether (ug/l)
DW-1	12/14/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	86	220
DW-2	12/12/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	94	120
DW-3	12/14/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	53	<5.0
DW-4	12/12/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
DW-5	12/14/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	130	270
DW-6	12/12/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
RW-1	12/6/2005	2600	<250	<250	<1200	<250	<250	<250	<250
PW-1	12/6/2005	<5.0	<5.0	<5.0	1,200	<5.0	<5.0	<5.0	<5.0
PW-2	12/6/2005	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0

FIGURES



REFERENCE: CAMPOBELLO, SOUTH CAROLINA QUADRANGLE MAP, 7.5 MINUTE SERIES, U.S. GEOLOGIC SURVEY

SCALE 1 : 24,000

QUADRANGLE LOCATION

DRAWN: A.C.B.	DATE: 02/25/05
SCDHEC FACILITY ID# 08650	
PROJECT: GEORGE SOUTHER GROCERY	
PROJECT No.: 05-02-015	
LOCATION: CAMPOBELLO, SOUTH CAROLINA	

FIGURE 1
SITE LOCATION MAP

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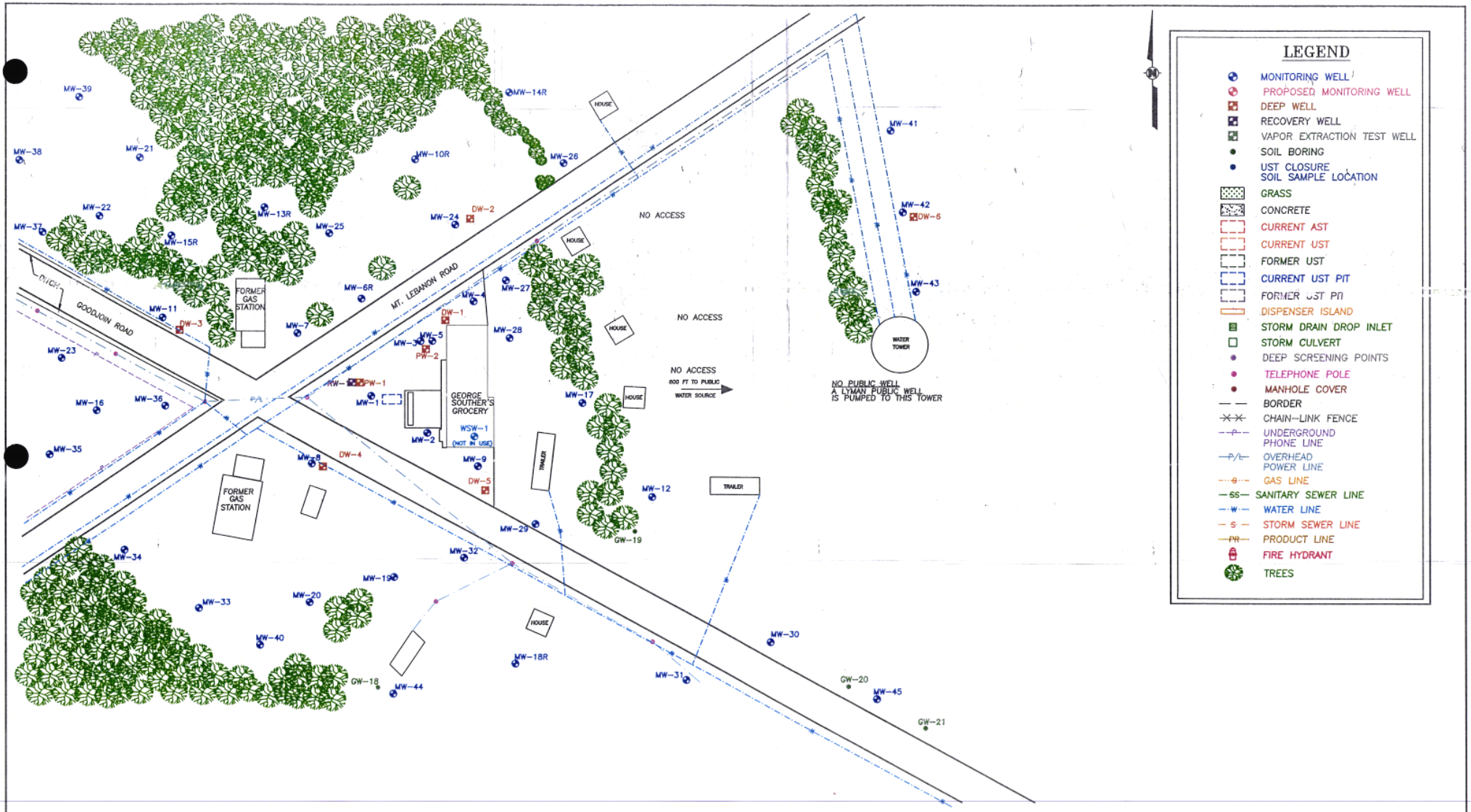
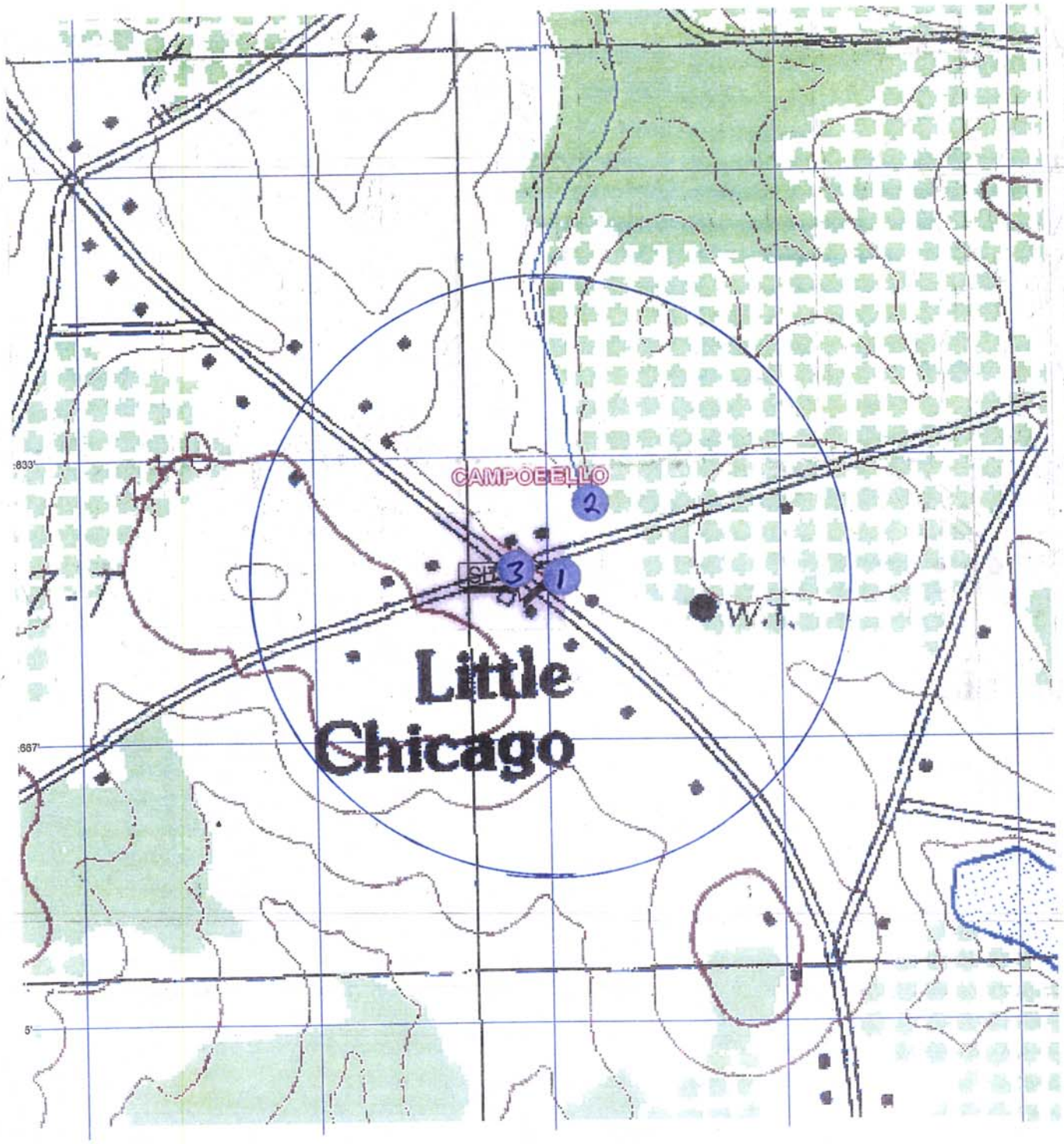


CAD FILE: REC 05-02-015ste.dwg

CONSULTECH ENVIRONMENTAL, INC. Environmental Consulting and Engineering © 1999 Delivering innovative solutions to today's environmental concerns	DRAWN: N.C.L. DATE: 04/28/06	FIGURE 2 SITE PLAN MAP
	UST#: 08650	
	PROJECT: GEORGE SOUTHER'S GROCERY	
	PROJECT No.: 05-02-015	
	LOCATION: CAMPOBELLO, SOUTH CAROLINA	



REFERENCE: CAMPOBELLO, SOUTH CAROLINA QUADRANGLE MAP, 7.5 MINUTE SERIES, U.S. GEOLOGIC SURVEY

SCALE 1 : 6,400

QUADRANGLE LOCATION

DRAWN: A.C.B.	DATE: 02/25/05
SCDHEC FACILITY ID# 08650	
PROJECT: GEORGE SOUTHER GROCERY	
PROJECT No.: 05-02-015	
LOCATION: CAMPOBELLO, SOUTH CAROLINA	

FIGURE 3
SITE TOPOGRAPHIC MAP
WITH POTENTIAL RECEPTORS

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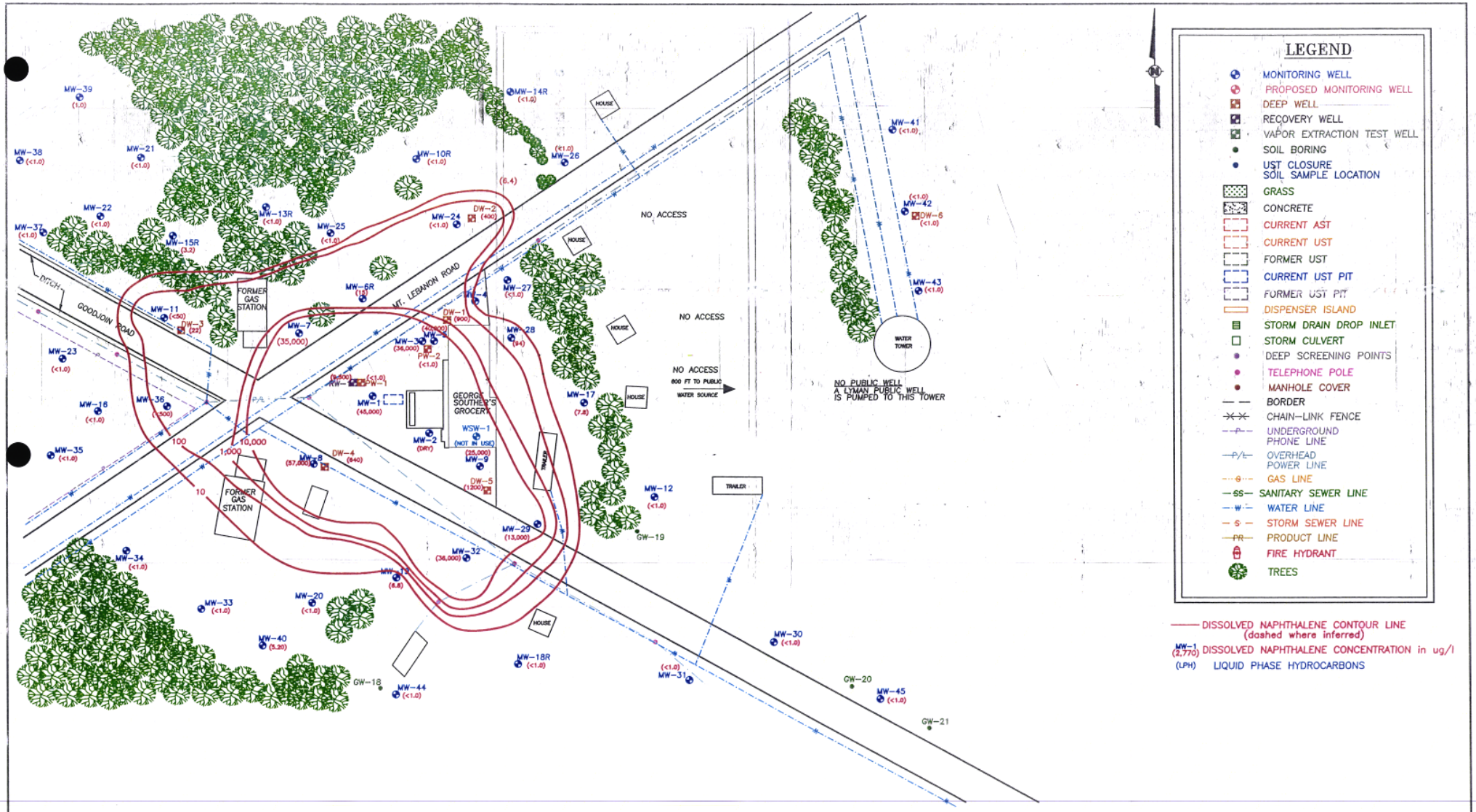
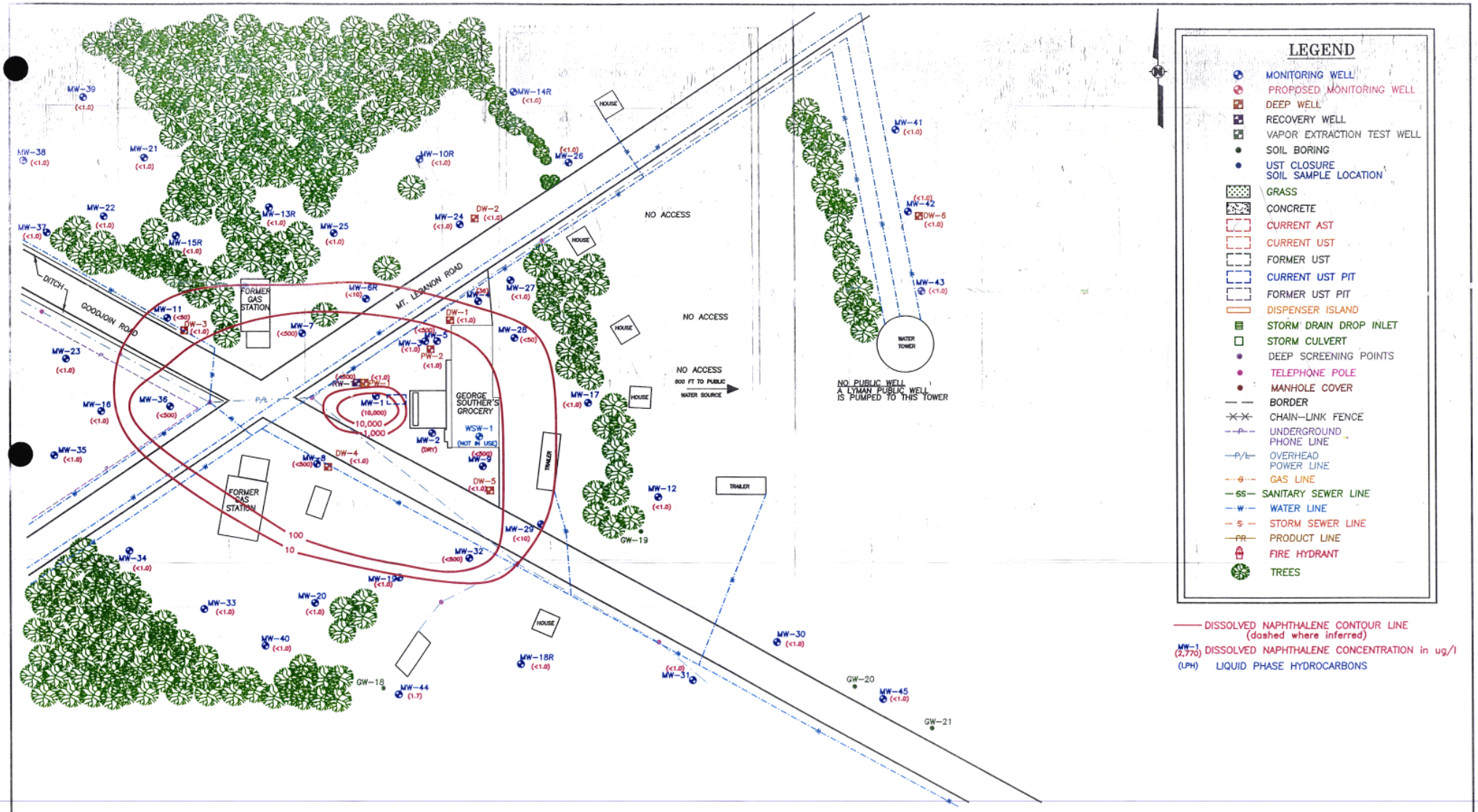


CAD FILE: REC 05-02-015ste.dwg

CONSULTECH ENVIRONMENTAL, INC. Environmental Consulting and Engineering © 1999 Delivering innovative solutions to today's environmental concerns	DRAWN: N.C.L. DATE: 02/28/06	FIGURE 4 DISSOLVED BENZENE ISOCONCENTRATION MAP (NOV 18- DEC 16, 2005) + APRIL 5, 2006
	UST#: 08650	
	PROJECT: GEORGE SOUTHER'S GROCERY	
	PROJECT No.: 05-02-015	
	LOCATION: CAMPOBELLO, SOUTH CAROLINA	



CAD FILE: REC 05-02-015ste.dwg

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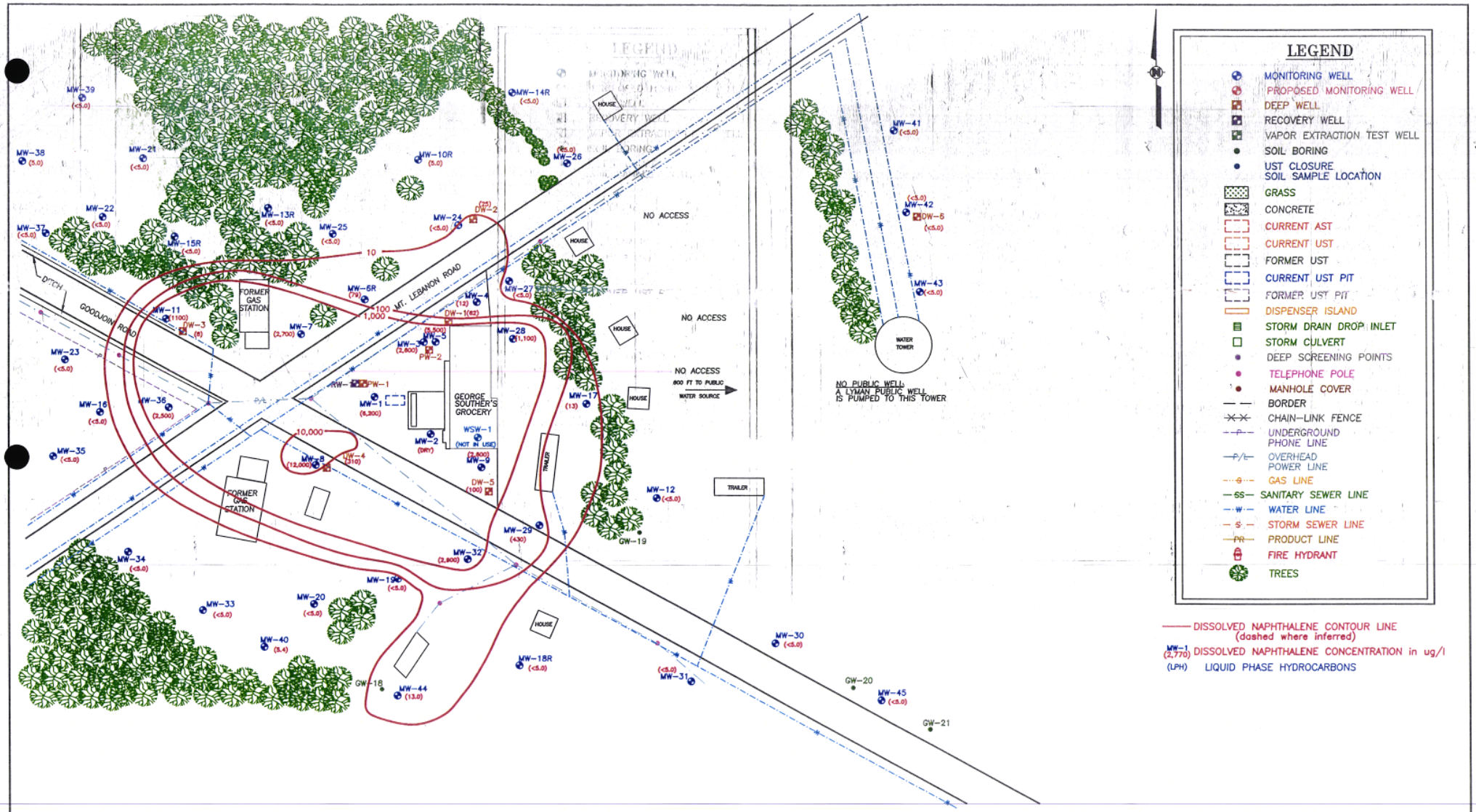
DRAWN: N.C.L.	DATE: 04/28/06
UST#: 08650	
PROJECT: GEORGE SOUTHER'S GROCERY	
PROJECT No.: 05-02-015	
LOCATION: CAMPOBELLO, SOUTH CAROLINA	

FIGURE 5
DISSOLVED MTBE
ISOCONCENTRATION MAP
(NOV 18- DEC 16, 2005)
+ APRIL 5, 2006



CAD FILE: REC 05-02-015ste.dwg

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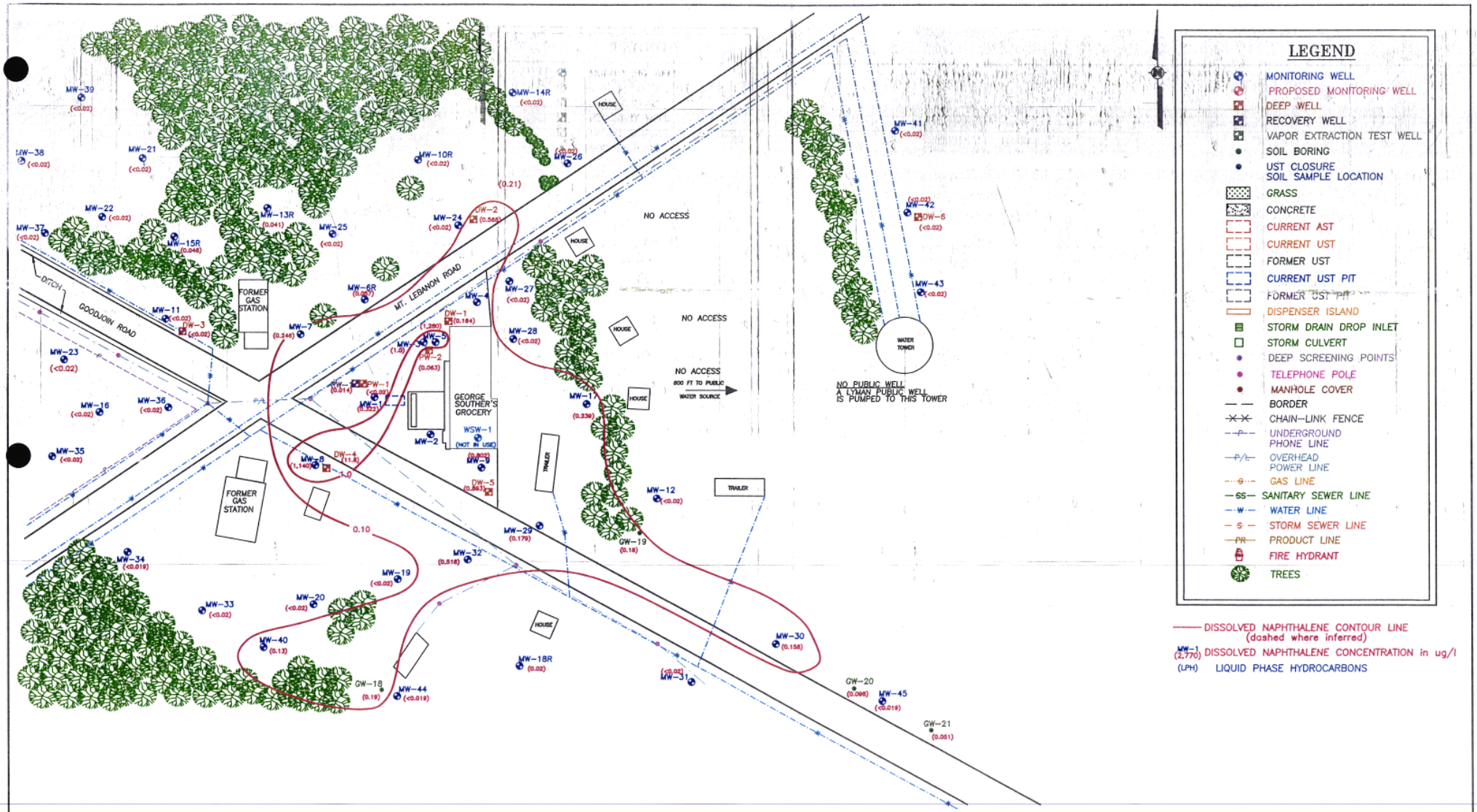
DRAWN: N.C.L.	DATE: 04/28/06
UST#: 08650	
PROJECT: GEORGE SOUTHER'S GROCERY	
PROJECT No.: 05-02-015	
LOCATION: CAMPOBELLO, SOUTH CAROLINA	

FIGURE 6
DISSOLVED NAPTHALENE ISOCONCENTRATION MAP
(NOV 18- DEC 16, 2005)
+ APRIL 5, 2006



CAD FILE: REC 05-02-015ste.dwg

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DRAWN: N.C.L.	DATE: 04/28/06
UST#: 08650	
PROJECT: GEORGE SOUTHER'S GROCERY	
PROJECT No.: 05-02-015	
LOCATION: CAMPOBELLO, SOUTH CAROLINA	

FIGURE 7
DISSOLVED EDB
ISOCONCENTRATION MAP
(NOV 18- DEC 16, 2005)
+ APRIL 5, 2006

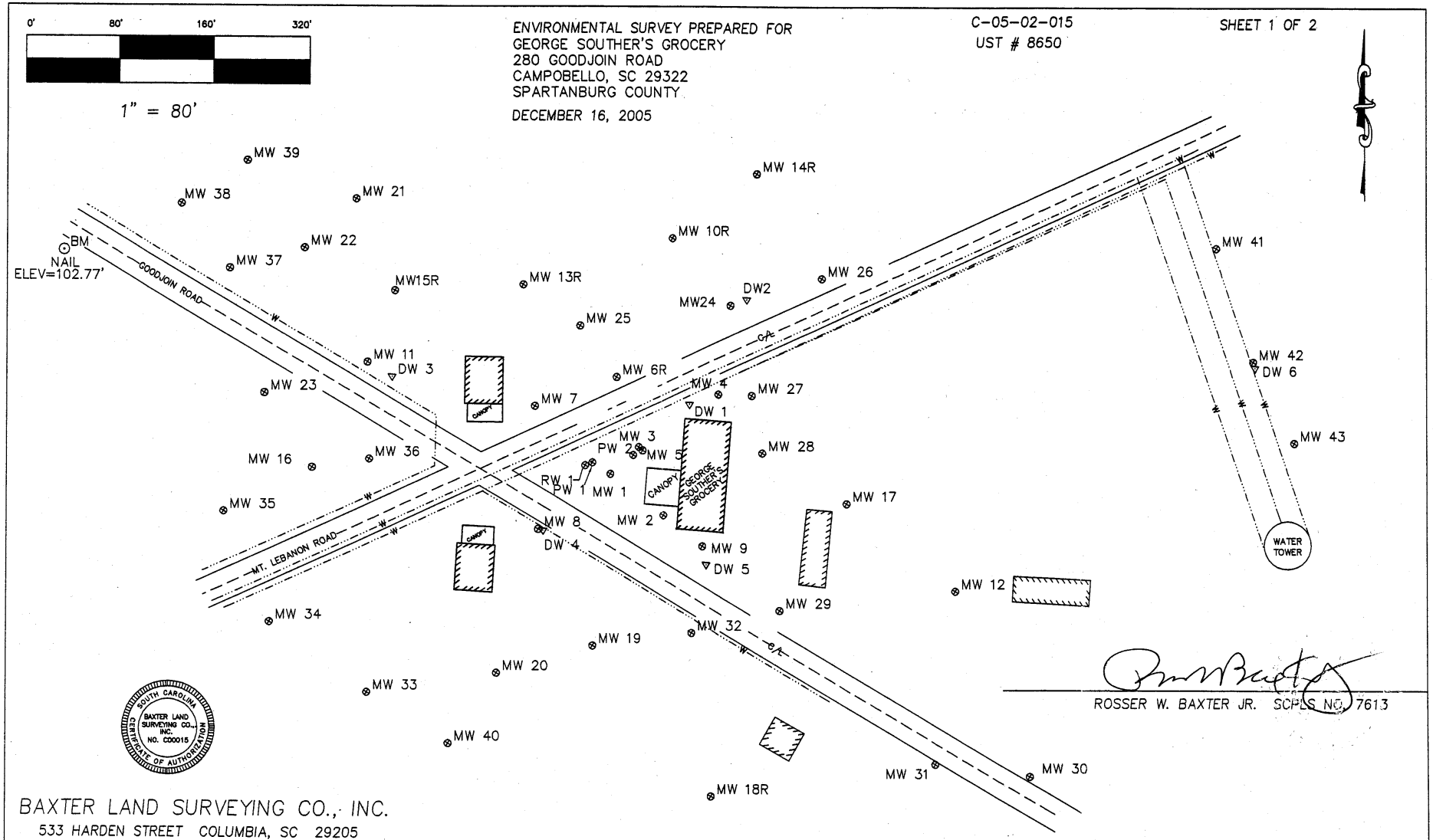
APPENDIX 1
Survey Plat

ENVIRONMENTAL SURVEY PREPARED FOR
GEORGE SOUTHER'S GROCERY
280 GOODJOIN ROAD
CAMPOBELLO, SC 29322
SPARTANBURG COUNTY

DECEMBER 16, 2005

C-05-02-015
UST # 8650

SHEET 1 OF 2



ROSSER W. BAXTER JR. SCPLS NO. 7613

BAXTER LAND SURVEYING CO., INC.
533 HARDEN STREET COLUMBIA, SC 29205
803-252-8564

MW1	97.56'
MW2	99.82'
MW3	97.11'
MW4	91.48'
MW5	97.69'
MW6R	91.98'
MW7	100.07'
MW8	99.76'
MW9	99.82'
MW10R	89.88'
MW11	101.58'
MW12	95.31'
MW13R	93.29'
MW14R	85.39'
MW15R	91.30'
MW16	99.09'
MW17	100.26'
MW18R	107.22'
MW19	104.69'
MW20	107.20'
MW21	88.91'
MW22	93.34'
MW23	100.07'
MW24	92.02'
MW25	92.81'
MW26	89.42'
MW27	91.80'
MW28	93.10'
MW29	99.81'
MW30	103.50'
MW31	101.05'
MW32	101.72'
MW33	109.05'
MW34	106.31'
MW35	105.02'
MW36	98.99'
MW37	98.21'
MW38	99.60'
MW39	94.98'
MW40	110.46'
MW41	102.02'
MW42	101.91'
MW43	93.34'
DW1	92.89'
DW2	91.95'
DW3	101.41'
DW4	99.80'
DW5	98.64'
DW6	101.86'
RW1	96.62'
PW1	96.59'
PW2	97.77'

SOUTH CAROLINA
BAXTER LAND SURVEYING CO., INC.
NO. C00015
CERTIFICATE OF AUTHORIZATION

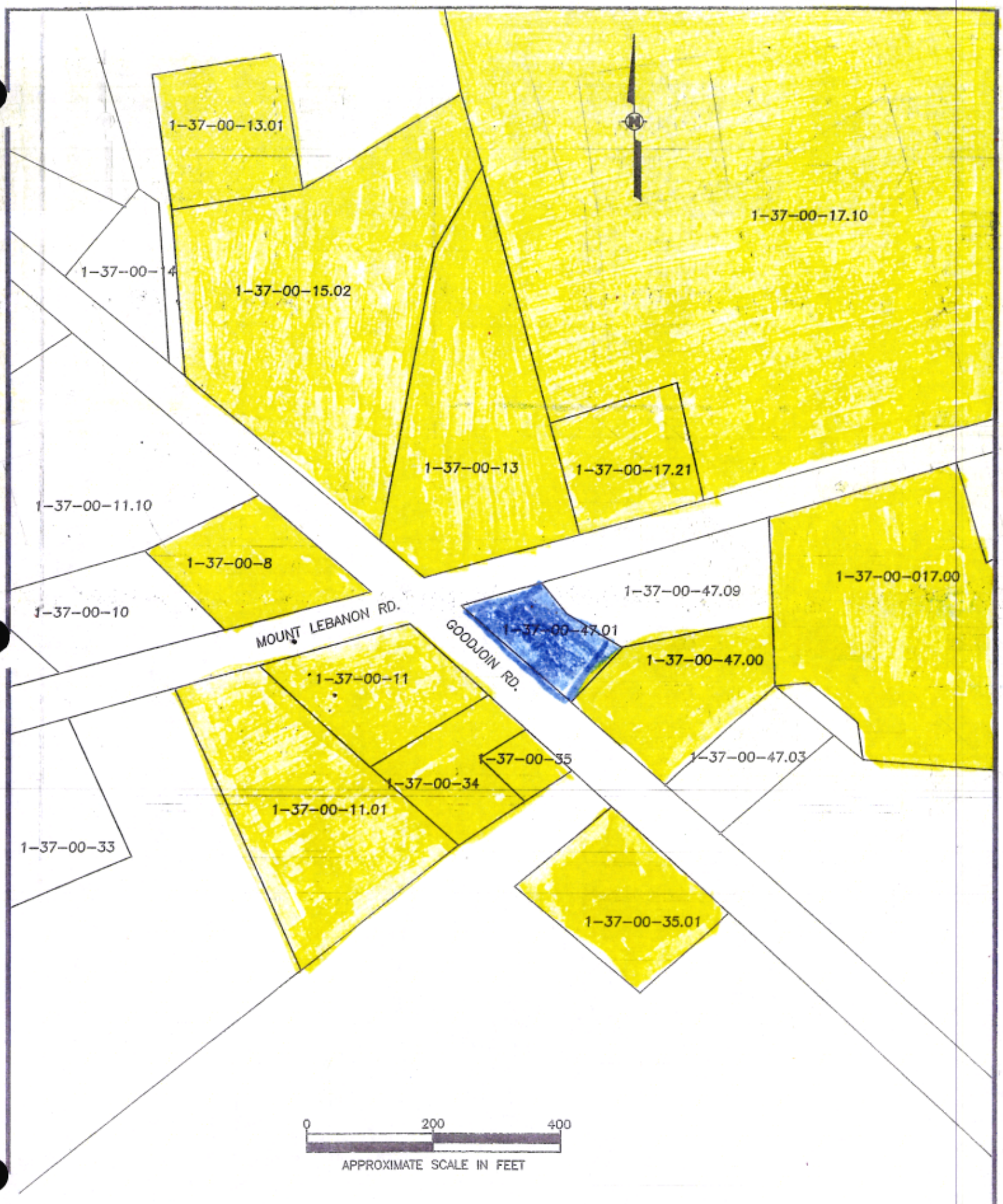
BAXTER LAND SURVEYING CO., INC.
533 HARDEN STREET COLUMBIA, SC 29205
803-252-8564

ROSSER W. BAXTER JR. SCPLS NO. 7613

APPENDIX 2
Tax Map and Surrounding Property Owners

Adjacent Property Owners
George Souther's Grocery – UST # 08650
Campobello, SC
Spartanburg County

Tax map and parcel #		Owner name and address
1-37-00-008.00		Ronnie Joe Sitton 1310 Mt. Lebanon Road Campobello, SC 29322
1-37-00-11.0		Becky Arms 143 Goodjoin Road Landrum, SC 29356 295 Goodjoin Rd. Campobello, SC 29322
1-37-00-013.00		James B. Williams, Jr. 885 Goodjoin Road Campobello, SC 29322
1-37-00-017.00		Earlene P. Lance 207 Lakewood Drive Kannapolis, NC 28081
1-37-00-017.21		Marvin E. & Alma D. Glen 1250 Mt. Lebanon Road Campobello, SC 29322
1-37-00-034.00		Annie L. Frady Wolfe 275 Goodjoin Road Campobello, SC 29322
1-37-00-035.00		Annie L. Frady Wolfe 275 Goodjoin Road Campobello, SC 29322
1-37-00-047.00		James Samuel Bruce P.O. Box 219 Lyman, SC 29365
1-37-00-047.01	**SITE**	George E. Souther 280 Goodjoin Road Campobello, SC 29322
1-37-00-011.01		Jessie C. Wright 137 Turner Barton Rd. Landrum SC 29356
1-37-00-14		Leroy Belcher 330 Goodjoin Rd.
1-37-00-11.10		Jimmy McClain 325 Goodjoin Rd.
1-37-00-17.10		Boyd Belcher 320 Goodjoin Rd.
1-37-00-10		Janice Burnett 1330 Mt. Lebanon Rd.
1-37-00-33		Helyn Sitton 1355 Mt. Lebanon Rd.
1-37-00-35.01		Carolyn Souther 195 Goodjoin Rd.
1-37-00-36.05		George Souther 135 Goodjoin Rd.
1-37-00-47.03		Frankie Bullington 190 Goodjoin Rd.
1-37-00-48.01		Piedmont Rural H2O Co. 198 Goodjoin Rd.



DRAWN: SRC	DATE: 09/06/05	ACCESS MAP	CONSULTECH ENVIRONMENTAL, INC.
UST #: 08650			Environmental Consulting and Engineering © 1999
PROJECT: GEORGE SOUTHER'S GROCERY			Delivering innovative solutions to today's environmental concerns
PROJECT No.: C-05-02-015			
LOCATION: CAMMPOBELLO, SOUTH CAROLINA			

CONSULTECH ENVIRONMENTAL, INC.

Consulting Engineers, Geologists & Scientists

PERMISSION TO ENTER PROPERTY

I, _____, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant _____, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located at _____, for the purpose of performing an environmental assessment, as requested by _____ which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed two to three years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property.

At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Kenneth L Brooke
Company/Client Representative

11/11/05
Date

Agreed and Consented to giving access:

Becky Arms
Property Owner's Signature

Access Denied:

_____
Property Owner's Signature

Becky Arms
Printed Name

Consultech Environmental, Inc.
Telephone Number (678) 377-0400
Fax Number (678) 377-0051

1800 MacLeod Drive, Suite F • Lawrenceville, GA 30043-5736
(678) 377-0400 • FAX: (678) 377-0051

D H E C

ROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

BUREAU OF LAND AND WASTE MANAGEMENT
UNDERGROUND STORAGE TANK PROGRAM
2600 Bull Street
Columbia, SC 29201
Telephone (803) 896-6240

RIGHT OF ENTRY

I, JAMES B. WILLIAMS JR certify that I am the legal owner or the authorized representative for _____ (owner) of the property described below. I have witnessed the planned locations / have been provided a sketch map indicating the location(s) of the work to be performed. Permission is hereby granted to George Souther and/or the South Carolina Department of Health and Environmental Control (SCDHEC) and its agents to enter the referenced property for the following purposes:

Name of Facility (if appropriate) : J B WILLIAMS & SON

Street Address : 300 GOODSON RD

City, State, ZIP : CAMPOBELLO SC 29322

1) Drilling of screening points. The work will be properly abandoned upon completion, and no permanent effects shall remain on site.

2) Installing 1 monitoring / recovery well(s). I understand that these wells will remain with the property until cleanup is complete. Additionally, SCDHEC or its agents will access the property at reasonable times for measurement and/or collection of samples. The monitoring wells will be properly abandoned upon completion of remediation activities.

NAME (Please print) : JAMES B. WILLIAMS JR

SIGNATURE James B Williams Jr

WITNESS : Frances N. Williams

DATE _____ Mo 4 Day 22 Year 05

Reference UST Permit #08650

RECEIVED
APR 25 2005
UNDERGROUND STORAGE TANK PROGRAM

CONSULTECH ENVIRONMENTAL, INC.

Consulting Engineers, Geologists & Scientists

PERMISSION TO ENTER PROPERTY

I, Alma Darlene Glenn hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant **SCDHEC**, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located **Spartanburg County Tax Parcel Number 1-37-00-017.21**, for the purpose of performing an environmental assessment, as requested by **SCDHEC** which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Jessica Guthrie
Company Representative

2-22-05
Date

Consultech Environmental, Inc.
Telephone Number (678) 377-0400
Fax Number (678) 377-0051

Agreed and Consented to giving access:

A Darlene Glenn
Property Owner's Signature

A. Darlene Glenn
Printed Name

Access Denied:

Property Owner's Signature

Printed Name

CONSULTECH ENVIRONMENTAL, INC.

PERMISSION TO ENTER PROPERTY

I, Earlene P. Adams, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant **SCDHEC**, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located **Spartanburg County Tax Parcel Number 1-37-00-017.00**, for the purpose of performing an environmental assessment, as requested by **SCDHEC** which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Carey Evans
Company Representative

4-12-05
Date

Consultech Environmental, Inc.
Telephone Number (678) 377-0400
Fax Number (678) 377-0051

Agreed and Consented to giving access:

Earlene P. Adams
Property Owner's Signature

Earlene P. Adams
Printed Name

Access Denied:

_____
Property Owner's Signature

_____
Printed Name

D H E C

PROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

RECEIVED
MAY 0 2 2005
UNDERGROUND STORAGE TANK PROGRAM

BUREAU OF LAND AND WASTE MANAGEMENT
UNDERGROUND STORAGE TANK PROGRAM
2600 Bull Street
Columbia, SC 29201
Telephone (803) 896-6240

RECEIVED
MAY 0 6 2005
UNDERGROUND STORAGE TANK PROGRAM

RIGHT OF ENTRY

I, Tina Wolfe certify that I am the ~~legal owner~~ or the authorized representative for Annie L. Grady Wolfe (owner) of the property described below. I have witnessed the planned locations / have been provided a sketch map indicating the location(s) of the work to be performed. Permission is hereby granted to George Souther and/or the South Carolina Department of Health and Environmental Control (SCDHEC) and its agents to enter the referenced property for the following purposes:

Name of Facility (if appropriate) : Residence

Street Address : 275 Goodyain Rd.

City, State, ZIP : Campobello, S.C. 29322

1) Drilling of screening points. The work will be properly abandoned upon completion, and no permanent effects shall remain on site.

2) Installing _____ monitoring / recovery well(s). I understand that these wells will remain with the property until cleanup is complete. Additionally, SCDHEC or its agents will access the property at reasonable times for measurement and/or collection of samples. The monitoring wells will be properly abandoned upon completion of remediation activities.

NAME (Please print) : Tina Wolfe

SIGNATURE : Tina Wolfe

WITNESS : _____

DATE : 5 Mo 04 Day 2005 Year

Reference UST Permit #08650

015

CONSULTECH ENVIRONMENTAL, INC.

Consulting Engineers, Geologists & Scientists

PERMISSION TO ENTER PROPERTY

I, S. BRUCE JAMES, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant **SCDHEC**, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located **Spartanburg County Tax Parcel Number 1-37-00-047.00**, for the purpose of performing an environmental assessment, as requested by **SCDHEC** which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Jessica Guthrie
Company Representative

2-22-05
Date

Consultech Environmental, Inc.
Telephone Number (678) 377-0400
Fax Number (678) 377-0051

Agreed and Consented to giving access:

S. Bruce James
Property Owner's Signature

S. BRUCE JAMES
Printed Name

Access Denied:

Property Owner's Signature

Printed Name

CONSULTECH ENVIRONMENTAL, INC.

Consulting Engineers, Geologists & Scientists

PERMISSION TO ENTER PROPERTY

I, _____, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant **SCDHEC**, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located **Spartanburg County Tax Parcel Number 1-37-00-047.01**, for the purpose of performing an environmental assessment, as requested by **SCDHEC** which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

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This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Jessica Guthrie
Company Representative

2-22-05
Date

Consultech Environmental, Inc.
Telephone Number (678) 377-0400
Fax Number (678) 377-0051

Agreed and Consented to giving access:

George E. Southern
Property Owner's Signature

George E. Southern
Printed Name

Access Denied:

_____
Property Owner's Signature

_____
Printed Name

CONSULTECH ENVIRONMENTAL, INC.

PERMISSION TO ENTER PROPERTY

D.P.O.A. Brenda A Cox

I, Mrs. Jessie C. Wright, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant **SCDHEC**, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located **Spartanburg County Tax Parcel Number 1-37-00-011.01** for the purpose of performing an environmental assessment, as requested by **SCDHEC** which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Carey Evans
Company Representative

7-27-05
Date

Consultech Environmental, Inc.
Telephone Number (678) 377-0400
Fax Number (678) 377-0051
C-015

08-02-05

Agreed and Consented to giving access:

D.P.O.A.
Jessie C. Wright Brenda A Cox
Property Owner's Signature

JESSIE C. WRIGHT By Brenda A Cox
Printed Name (864) 895-5795

Access Denied:

Property Owner's Signature

Printed Name

CONSULTECH ENVIRONMENTAL, INC.

PERMISSION TO ENTER PROPERTY

I, Boyd Belcher, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant **SCDHEC**, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located **Spartanburg County Tax Parcel Number 1-37-00-17.10, 1-37-00-15.02, 1-37-00-13.01**, for the purpose of performing an environmental assessment, as requested by **SCDHEC** which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Carey Evans
Company Representative

9-9-05
Date

Consultech Environmental, Inc.
Telephone Number (678) 377-0400
Fax Number (678) 377-0051
C-015

Agreed and Consented to giving access:

Boyd Belcher
Property Owner's Signature

BOYD BELCHER
Printed Name

Access Denied:

Property Owner's Signature

Printed Name

CONSULTECH ENVIRONMENTAL, INC.

PERMISSION TO ENTER PROPERTY

I, _____, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant **SCDHEC**, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located **Spartanburg County Tax Parcel Number 1-37-00-35.01**, for the purpose of performing an environmental assessment, as requested by **SCDHEC** which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Carey Evans
Company Representative

9-9-05
Date

Consultech Environmental, Inc.
Telephone Number (678) 377-0400
Fax Number (678) 377-0051
C-015

Agreed and Consented to giving access:

Carolyn Sorrher
Property Owner's Signature

Carolyn Sorrher
Printed Name

Access Denied:

_____
Property Owner's Signature

_____
Printed Name

APPENDIX 3
Soil Boring Logs and Monitoring Well Construction Details

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-18	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 1-Feb-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 35'
DRILLING COMPANY: Bear Environmental	BORING: GW-18
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 35'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5						
10						
15						
20						
25						
30						
35						DPT groundwater sample collected - no soil samples collected
40						
						H2O 35'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-19	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 1-Feb-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: GW-19
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 30'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5						
10						
15						
20						
25						
30						DPT groundwater sample collected - no soil samples collected
35						
40						
						H2O 30'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-20	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 1-Feb-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: GW-20
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 30'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5						
10						
15						
20						
25						
30						DPT groundwater sample collected - no soil samples collected
35						
40						
						H2O 30'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-21	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 1-Feb-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: GW-21
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 30'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5						
10						
15						
20						
25						
30						DPT groundwater sample collected - no soil samples collected
35						
40						
						H2O 30'

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

PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: SCDHEC

Address: 2600 Bull Street

City: Columbia State: SC Zip: 29201-1708

Telephone: Work: (803) 898-4300 Home:

2. LOCATION OF WELL: MW-34 **COUNTY: Spartanburg**
Name: George Souther's Grocery

Street Address: 280 Goodjoin Road
City: Campobello, SC Zip: 29322

Latitude: $35^0\ 03^1\ 46^{11}$ Longitude: $82^0\ 10^1\ 59^{11}$

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
Red to brown Silty Sand	6	6
Red to brown Sand	6	12
Basement Rock	28	40
* Indicate Water Bearing Zones		
Use a 2nd sheet if needed		

5. REMARKS:

6. PERMIT NUMBER: UMW -19055 MW-34

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

8. WELL DEPTH (completed) Date Started: 12/08/05

40 ft Date Completed: 12/08/05

9. TYPE [ ] Mud Rotary [ ] Jetted [ ] Bored
[ ] Dug [X] Air Rotary [ ] Driven
[ ] Cable Tool [ ] Hollow Stem Auger

10. CASING: [X]Threaded [ ] Welded
Diam.: 2^{11}
Type: [X] PVC [ ] Galvanized
[ ] Steel [ ] Other
2" 0 in. to 25 ft depth
____ in. to _____ft depth

Height: Above/Below
Surface Flush ft
Weight_____lb/ft
Drive Shoe? [ ] Yes [ ] No

11. SCREEN
Type PVC Diam.: 2^{11}
Slot/Gauge: 0.010 Length: 15 ft
Set Between: 25 ft and 40 ft **NOTE: MULTIPLE SCREENS**
_____ft and _____ft **USE SECOND SHEET**

Sieve Analysis [ ] Yes (please enclose) [ ] No

12. STATIC WATER LEVEL ____Dry____ft below land surface after 24 hrs

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. ARTIFICAL FILTER (filter pack) [X] Yes [ ] No
Installed from 23 ft. to 40 ft
Effective size 20/30 Uniformity

16. WELL GROUTED? [X] Yes [ ] No
[ ] Neat Cement [ ] Bentonite [X] Bentonite/Cement [ ] Other _____
Depth: From 0 ft to 23

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: James Wilson CERT. NO: 1612
Address: 1800 MacLeod Dr. Ste F, Lawrenceville, GA 30043
Telephone No.: 678 377 0400 Fax No.: 678 377 0051

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

Signed: _____ Date: 12/19/05
Authorized Representative

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: S C D.H.E.C. (last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: 803-898-4300 Home: N/A

2. LOCATION OF WELL: **COUNTY:** Spartanburg
Name: George Souther's Grocery
Street Address: 280 Goodjoin Road
City: Campobello Zip: 29322
Latitude: 35*03.715 Longitude: 082*11.023'

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	.05	.05
Topsoil	.05	1'
ed Sandy Clay	15'	16'
*Brown Sandy Clay	21'	35'
*Indicate Water Bearing Zones		
(Use a 2nd sheet if needed)		

5. REMARKS:
MW #44

TYPE: ☐ Mud Rotary ☐ Jetted ☒ Bored ☐ Dug ☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. PERMIT NUMBER: UMJ-19727

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

9. Well Depth (completed) Date Started (MM/DD/YYYY): 04/05/2006
35' ft. Date Completed (MM/DD/YYYY): 04/05/2006

10. CASING: ☒ Threaded ☐ Welded
Diam: 2 inches Height Above ☐ Below ☒
Type: ☒ PVC ☐ Galvanized Surface .05 ft.
☐ Steel ☐ Other Weight ____ lb./ft.
-.05 in. to 20 ft. depth Drive Shoe? ☐ Yes ☐ No
____ in. to ____ ft. depth

11. SCREEN:
Type: PVC Diam.: 2 in.
Slot/Gauge: .010 Length: 15 ft.
Set Between: 20 ft. and 35 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 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 18 ft. to 35 ft.
Effective size #3 Uniformity Coefficient ____

16. WELL GROUTED? ☒ Yes ☐ No
☒ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From 0' ft. to 16 ft.

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

18. PUMP: Date installed (mm/dd/yyyy): ____ 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: CERT. NO.: 01676
Name: Wesley W. Herman Level: A B C D
☐ ☒ ☐ ☐ (check one)
Address: 324 Fields Drive, Suite C City: Aberdeen
State: North Carolina Zip: 28315
Telephone No.: 910-944-3140 Fax: 910-944-3150

20. WATER DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.
Signed: Wesley W. Herman Date: 04/10/2006
Well Driller (MM/DD/YYYY)

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARMENT 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: S C D.H.E.C. (last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: 803-898-4300 Home: N/A

2. LOCATION OF WELL: COUNTY: Spartanburg
Name: George Souther's Grocery
Street Address: 280 Goodjoin Road
City: Campobello Zip: 29322
Latitude: 35*03.699 Longitude: 082*10.912'

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	.05	.05
Topsoil	.05	1'
Red Sandy Clay	18'	19'
*Brown Sandy Clay	11'	30'
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW #45

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

7. PERMIT NUMBER: UMJ-19727

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

9. Well Depth (completed) Date Started (MM/DD/YYYY): 04/05/2006
30' ft. Date Completed (MM/DD/YYYY): 04/05/2006

10. CASING: ☒ Threaded ☐ Welded
Diam: 2 inches Height Above ☐ Below ☒
Type: ☒ PVC ☐ Galvanized Surface .05 ft.
☐ Steel ☐ Other Weight ____ lb./ft.
-.05 in. to 15 ft. depth Drive Shoe? ☐ Yes ☐ No
____ in. to ____ ft. depth

11. SCREEN:
Type: PVC Diam.: 2 in.
Slot/Gauge: .010 Length: 15 ft.
Set Between: 15 ft. and 30 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 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 30 ft.
Effective size #3 Uniformity Coefficient ____

16. WELL GROUTED? ☒ Yes ☐ No
☒ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From 0' ft. to 11 ft.

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

18. PUMP: Date installed (mm/dd/yyyy): ____ 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: CERT. NO.: 01676
Name: Wesley W. Herman Level: A B C D
☐ ☒ ☐ ☐ (check one)
Address: 324 Fields Drive, Suite C City: Aberdeen
State: North Carolina Zip: 28315
Telephone No.: 910-944-3140 Fax: 910-944-3150

20. WATER DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.
Signed: Wesley W. Herman Date: 04/10/2006
Well Driller (MM/DD/YYYY)

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

08650 MPM

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: S C D.H.E.C. (last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: 803-898-4300 Home: N/A

2. LOCATION OF WELL: **COUNTY:** Spartanburg
Name: George Souther's Grocery
Street Address: 280 Goodjoin Road
City: Campobello Zip: 29322
Latitude: 35*03.715 Longitude: 082*11.023'

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	.05	.05
Topsoil	.05	1'
Red Sandy Clay	15'	16'
*Brown Sandy Clay	21'	35'

RECEIVED
MAY 03 2006
UNDERGROUND STORAGE TANK PROGRAM

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

5. REMARKS:
MW #44

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

7. PERMIT NUMBER: UMJ-19727

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

9. Well Depth (completed) 35' ft.
Date Started (MM/DD/YYYY): 04/05/2006
Date Completed (MM/DD/YYYY): 04/05/2006

10. CASING: ☒ Threaded ☐ Welded
Diam: 2 inches
Type: ☒ PVC ☐ Galvanized ☐ Steel ☐ Other
-.05 in. to 20 ft. depth
____ in. to ____ ft. depth
Height Above ☐ Below ☒ Surface .05 ft.
Weight ____ lb./ft.
Drive Shoe? ☐ Yes ☐ No

11. SCREEN:
Type: PVC Diam.: 2 in.
Slot/Gauge: .010 Length: 15 ft.
Set Between: 20 ft. and 35 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 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 18 ft. to 35 ft.
Effective size #3 Uniformity Coefficient ____

16. WELL GROUTED? ☒ Yes ☐ No
☒ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From 0' ft. to 16 ft.

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

18. PUMP: Date installed (mm/dd/yyyy): ____ 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:
Name: Wesley W. Herman
CERT. NO.: 01676
Level: A B C D ☐ ☒ ☐ ☐ (check one)
Address: 324 Fields Drive, Suite C City: Aberdeen
State: North Carolina Zip: 28315
Telephone No.: 910-944-3140 Fax: 910-944-3150

20. WATER DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.
Signed: Wesley W. Herman Date: 04/10/2006
Well Driller (MM/DD/YYYY)

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARMENT 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: S C D.H.E.C. (last) (first)

Address: 2600 Bull Street

City: Columbia State: SC Zip: 29201-1708

Telephone: Work: 803-898-4300 Home: N/A

2. LOCATION OF WELL: **COUNTY:** Spartanburg

Name: George Souther's Grocery

Street Address: 280 Goodjoin Road

City: Campobello Zip: 29322

Latitude: 35*03.699 Longitude: 082*10.912'

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	.05	.05
Topsoil	.05	1'
Red Sandy Clay	18'	19'
*Brown Sandy Clay	11'	30'
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		
5. REMARKS: MW #45		

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

7. PERMIT NUMBER: UMJ-19727

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

9. Well Depth (completed) Date Started (MM/DD/YYYY): 04/05/2006

30' ft. Date Completed (MM/DD/YYYY): 04/05/2006

10. CASING: ☒ Threaded ☐ Welded

Diam: 2 inches Height Above ☐ Below ☒

Type: ☒ PVC ☐ Galvanized Surface .05 ft.

☐ Steel ☐ Other Weight ____ lb./ft.

-.05 in. to 15 ft. depth Drive Shoe? ☐ Yes ☐ No

____ in. to ____ ft. depth

11. SCREEN:

Type: PVC Diam.: 2 in.

Slot/Gauge: .010 Length: 15 ft.

Set Between: 15 ft. and 30 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 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 30 ft.

Effective size #3 Uniformity Coefficient ____

16. WELL GROUTED? ☒ Yes ☐ No

☒ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____

Depth: From 0' ft. to 11 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ____ ft. ____ direction

Type: ____

Well Disinfected: ☐ Yes ☐ No Type: ____ Amount ____

18. PUMP: Date installed (mm/dd/yyyy): ____ 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: CERT. NO.: 01676

Name: Wesley W. Herman Level: A B C D

☐ ☒ ☐ ☐ (check one)

Address: 324 Fields Drive, Suite C City: Aberdeen

State: North Carolina Zip: 28315

Telephone No.: 910-944-3140 Fax: 910-944-3150

20. WATER 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: 04/10/2006

Well Driller (MM/DD/YYYY)

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

APPENDIX 4
Field Data

GROUNDWATER ELEVATION DATA

PROJECT NAME: Souther's Grocery
DATE: 12//05 & 4/06 RECORDED BY: Drew Miller

CONSULTECH PROJECT NO.: 05-02-015
MEASURING DEVICE: Oil/Water Interface Probe

WELL NO.	DATE	TIME	DEPTH TO GROUND-WATER	DEPTH to FREE PRODUCT	pH	TEMP	CONDUCTIVITY	DISSOLVED OXYGEN
MW-1	12/12/05	1000	14.58		5.3	18.2	105	2.1
MW-2	12/12/05	dry	DRY	DRY	DRY	DRY	DRY	DRY
MW-3	12/12/05	1030	15.65		7.1	19.3	85	1.9
MW-4	12/12/05	1045	10.61		5.1	18.3	113	2.6
MW-5	12/12/05	1100	12.23	11.90	FP	FP	FP	FP
MW-6R	12/13/05	1115	11.18		5.1	19.1	129	3.7
MW-7	12/14/05	930	13.40	sheen	4.8	18.6	193	0.9
MW-8	12/12/05	1145	17.86	17.60	FP	FP	FP	FP
MW-9	12/12/05	1000	19.03		5.3	19.2	123	1.4
MW-10R	12/12/05	1300	5.45		5.8	18.4	65	4.2
MW-11	12/12/05	1215	14.69	Sheen	4.8	18.9	136	3.7
MW-12	12/13/05	1245	15.93		5.6	19.3	229	4.0
MW-13R	12/12/05	1430	9.82		4.8	19.6	78	2.8
MW-15R	12/14/05	1000	7.70		6.9	20.1	341	3.7
MW-16	12/12/05	1215	16.67		5.9	20.0	169	4.2
MW-17	12/12/05	1245	13.16		5.4	19.2	29	3.6
MW-18R	12/12/05	1500	26.89		4.7	18.7	143	3.5
MW-19	12/12/05	1100	23.27		4.7	21.1	433	4.3
MW-20	12/12/05	1030	25.29		5.5	20.2	456	2.9

Measured from top of riser unless otherwise noted.
Collected depth to water/product measurements prior to initiating well development activities.

GROUNDWATER ELEVATION DATA

PROJECT NAME: George Souther's Grocery
DATE: 12//05 & 4/06 RECORDED BY: Drew Miller

CONSULTECH PROJECT NO.: 05-02-015
MEASURING DEVICE: Oil/Water Interface Probe

WELL NO.	DATE	TIME	DEPTH TO GROUND-WATER	DEPTH to FREE PRODUCT	pH	TEMP	CONDUCTIVITY	DISSOLVED OXYGEN
MW-21	12/12/05	830	6.26		5.3	19.8	255	3.6
MW-22	12/12/05	900	8.37		5.5	20.2	94	3.2
MW-23	12/12/05	1200	16.70		4.7	19.6	103	3.0
MW-24	12/12/05	1230	7.03		6.1	19.6	301	4.1
MW-25	12/12/05	1245	7.99		4.7	19.2	86	2.8
MW-26	12/13/05	1100	7.54		5.9	19.9	91	3.8
MW-27	12/13/05	1530	11.24		5.2	18.3	143	3.4
MW-28	12/13/05	1600	12.61		5.8	18.1	469	3.6
MW-29	12/13/05	930	21.34		5.3	19.2	119	3.2
MW-30	12/13/05	930	26.40		5.5	19.6	220	3.0
MW-31	12/13/05	900	23.01		6.0	18.1	86	2.3
MW-32	12/13/05	900	21.34		6.4	18.4	94	3.1
MW-33	12/13/05	1200	34.72		7.0	19.1	131	3.6
MW-34	12/13/05	dry	DRY	DRY	7.4	DRY	DRY	DRY
MW-34	04/05/06	1300	26.06		5.8	18.6	79	2.8
MW-35	12/13/05	1200	21.04		6.3	18.0	69	3.3
MW-36	12/13/05	1000	15.65		6.1	17.5	125	3.0
MW-37	12/14/05	1130	14.50		5.9	18.4	211	2.9
MW-38	12/14/05	1030	16.51		6.4	17.9	106	2.9

GROUNDWATER ELEVATION DATA

PROJECT NAME: George Souther's Grocery
DATE: 12//05 & 4/06 RECORDED BY: Drew Miller

CONSULTECH PROJECT NO.: 05-02-015
MEASURING DEVICE: Oil/Water Interface Probe

WELL NO.	DATE	TIME	DEPTH TO GROUND-WATER	DEPTH to FREE PRODUCT	PH	TEMP	CONDUCTIVITY	DISSOLVED OXYGEN
MW-39	12/14/05	1100	12.06		7.1	18.3	113	3.1
MW-40	12/14/05	1215	34.80		4.5	18.6	162	3.4
MW-41	12/14/05	1230	34.80		6.1	20.1	168	3.8
MW-42	12/14/05	1300	34.41		5.2	18.1	303	3.9
MW-43	12/14/05	1330	27.22		4.7	18.7	121	2.4
MW-44	4/05/06	1230	33.31		6.4	18.2	74	3.7
MW-45	4/05/06	1200	27.92		6.8	19.0	113	3.2
DW-1	12/14/05	1400	20.21		6.3	18.3	93	2.8
DW-2	12/14/05	1330	13.03		7.2	17.9	44	3.0
DW-3	12/14/05	900	22.64		7.4	19.4	110	2.6
DW-4	12/14/05	1200	32.12		6.7	19.3	234	3.6
DW-5	12/14/05	1000	28.41		7.0	18.2	245	2.4
DW-6	12/14/05	1230	43.52		6.3	17.8	62	3.0
RW-1	12/14/05	1130	14.97		4.9	18.1	93	2.1
PW-1	12/14/05	1145	14.78		4.7	18.3	328	1.7
PW-2	12/14/05	1100	16.16		8.1	17.9	174	3.0

Measured from top of riser unless otherwise noted.
Collected depth to water/product measurements prior to initiating well development activities.

UTILITY FORMAT AND POTENTIAL RECEPTOR FORMAT

Receptor Analysis

Describe all potential receptors and preferential pathways within a 1000-foot radius of the site

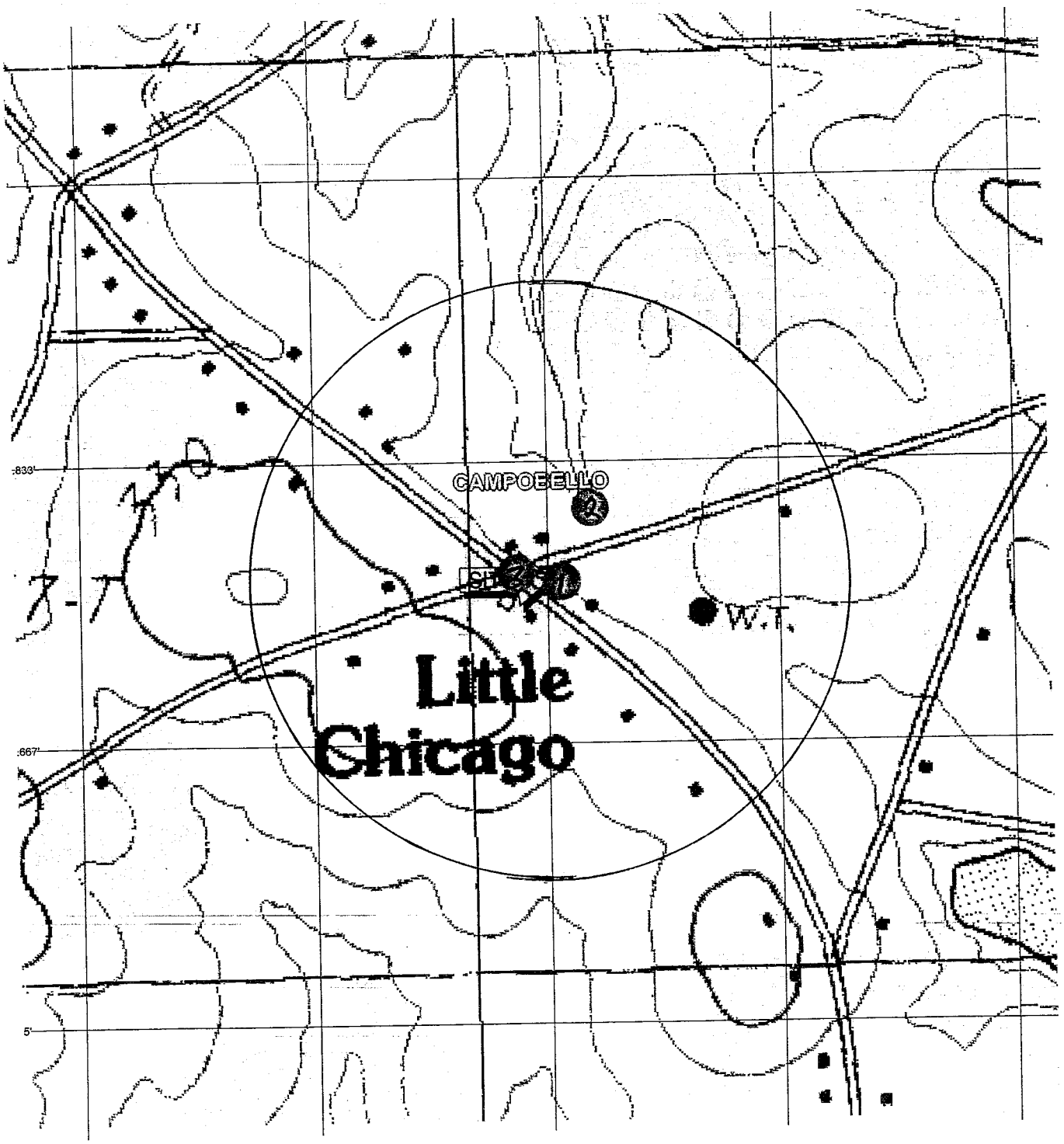
Description of Receptor	Distance/Direction from Site
1) WSW-1	On site
1) Tributary of Motlow Creek	250 feet Northeast

Utilities Survey

List the utilities on site, and adjacent to the site within a 250-foot radius, that could serve as exposure points or as preferential pathways

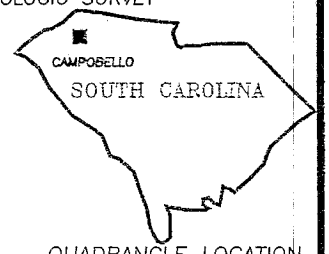
Utility	On-site or Distance/Direction from site	Depth to Utility
2.) Water	Water lines run on the south side of Mt. Lebanon and Goodjoin roads and on the south side of Goodjoin road and on the north side of these roads west of the intersection in the easement.	2-5 Feet
2.) Fiber optic/ Telephone	Telephone lines run on the south side of Goodjoin road and on the north side of Mt. Lebanon road west of the intersection in the easement.	2-5 Feet
2.) Septic systems	Septic systems are behind all residences and businesses in the area.	2-5 Feet

Example format taken from DHEC 3542(07/1999)



REFERENCE: CAMPOBELLO, SOUTH CAROLINA QUADRANGLE MAP, 7.5 MINUTE SERIES, U.S. GEOLOGIC SURVEY

SCALE 1 : 6,400



QUADRANGLE LOCATION

DRAWN: A.C.B.	DATE: 02/25/05
SCDHEC FACILITY ID# 08650	
PROJECT: GEORGE SOUTHER GROCERY	
PROJECT No.: 05-02-015	
LOCATION: CAMPOBELLO, SOUTH CAROLINA	

FIGURE 3
SITE TOPOGRAPHIC MAP
WITH POTENTIAL RECEPTORS

CONSULTECH ENVIRONMENTAL, INC.

Environmental Consulting and Engineering
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Delivering innovative solutions to today's environmental concerns

APPENDIX 5
Laboratory Analytical Results

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

39064

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

CHAIN OF CUSTODY

Company Name: Consultech
Address: 1800 Mallard Suite F LVille, GA
Report Sent to: (Client Contact): Jim Wilson
Contact Phone # 678-377-0400 Fax # 678-377-0051
Project Name: George Southern Grocery
Project Number: 05-02-015

Billing address:
Client P.O. #

For Laboratory Use Only AAL LIMS SYS. ID: 14651
Custody Seal(s): Y N TAPE Page 1 of 1
QC Level: 1 2 3 4 CLP Init/Temp:
Sample Condition: AAL Work Order #: 9979

Samplers: (signature)
Samplers: (printed)

Line No.	Sample ID #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Sample Location:	No. of Containers	ANALYSIS: EDB - 8011	Remarks	AAL SampleID: 9979
1	GW-18	2/1/06 1630		✓				2	2		001
2	19	020106 1745		X	W			2	✓		2
3	20	0800		X					✓		3
4	21	0930		X					✓		4
5											
6											
7											
8											
9											
10											

BLB 020806

1) Relinquished By: Date / Time 2/2/06
2) Received By: Fed Ex Date / Time
Delivered by: (Circle One) FedEX UPS Hand Other
3) Relinquished By: FedEX Date / Time 020606/0920
4) Received By: Date / Time 2/3/06 0920
Turnaround Time Requested: 100% RUSH

(DW = Drinking Water) (GW = Groundwater) (SW = Surface Water) (L = Liquid) (O = Oil) (S = Soil) (SD = Solid) (SL = Sludge) (A = Air Sample) (C = Cartridge)

COC-2002.xls, Revised 8/9/02

Certificate of Analytical Results 9779

Consultech Environmental, Inc., Lawrenceville, GA

George Souther's Grocery

Sample Id: **GW-18** Matrix: **WATER** % Moisture:
Lab Sample Id: **9779-001** Date Collected: **Feb-01-06 16:30** Date Received: **Feb-03-06 09:20**
Sample Depth:

Analytical Method: EDB by SW8011 Prep Method: EXT_SW8011

Date Analyzed: Feb-06-06 13:03 Analyst: MJL01 Date Prep: Feb-03-06 16:00 Tech: BPR01
Seq Number: 30452

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.19	0.018	0.0044	ug/L		1

Sample Id: **GW-19** Matrix: **WATER** % Moisture:
Lab Sample Id: **9779-002** Date Collected: **Feb-01-06 17:45** Date Received: **Feb-03-06 09:20**
Sample Depth:

Analytical Method: EDB by SW8011 Prep Method: EXT_SW8011

Date Analyzed: Feb-06-06 13:21 Analyst: MJL01 Date Prep: Feb-03-06 16:00 Tech: BPR01
Seq Number: 30452

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.18	0.018	0.0045	ug/L		1

Sample Id: **GW-20** Matrix: **WATER** % Moisture:
Lab Sample Id: **9779-003** Date Collected: **Feb-01-06 08:00** Date Received: **Feb-03-06 09:20**
Sample Depth:

Analytical Method: EDB by SW8011 Prep Method: EXT_SW8011

Date Analyzed: Feb-06-06 13:39 Analyst: MJL01 Date Prep: Feb-03-06 16:00 Tech: BPR01
Seq Number: 30452

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.098	0.018	0.0045	ug/L		1

Sample Id: **GW-21** Matrix: **WATER** % Moisture:
Lab Sample Id: **9779-004** Date Collected: **Feb-01-06 09:30** Date Received: **Feb-03-06 09:20**
Sample Depth:

Analytical Method: EDB by SW8011 Prep Method: EXT_SW8011

Date Analyzed: Feb-06-06 13:56 Analyst: MJL01 Date Prep: Feb-03-06 16:00 Tech: BPR01
Seq Number: 30452

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.051	0.019	0.0047	ug/L		1

*

Version: 1.000

Certificate of Analytical Results 9779

Consultech Environmental, Inc., Lawrenceville, GA

George Souther's Grocery

Sample Id: **28739 BLK**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **28739 BLK**	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: EDB by SW8011 Prep Method: EXT_SW8011

Date Analyzed: Feb-06-06 12:10 Analyst: MJL01 Date Prep: Feb-03-06 16:00 Tech: BPR01

Seq Number: 30452

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.020	0.0049	ug/L		1

*

Version: 1.000

Form 2 - Surrogate Recoveries

Project Name: George Souther's Grocery

Report Date: 02/06/06 17:45

Project ID: 05-02-015

Work Order #: 9779

Lab Batch #: 30452 **Sample:** 28739 BLK / BLK **Batch:** 1 **Matrix:** W

Units: ug/L

SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.7	5.0	114	60-140	

Lab Batch #: 30452 **Sample:** 28739 BLK / BLK **Batch:** 1 **Matrix:** W

Units: ug/L

SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	6.9	5.0	138	60-140	

Lab Batch #: 30452 **Sample:** 9779-001 / SMP **Batch:** 1 **Matrix:** W

Units: ug/L

SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.3	4.5	118	60-140	

Lab Batch #: 30452 **Sample:** 9779-001 / SMP **Batch:** 1 **Matrix:** W

Units: ug/L

SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.5	4.5	122	60-140	

Lab Batch #: 30452 **Sample:** 9779-002 / SMP **Batch:** 1 **Matrix:** W

Units: ug/L

SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	3.6	4.6	78	60-140	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Labortatory QC limits

Version: 1.%

Form 2 - Surrogate Recoveries

Project Name: George Souther's Grocery

Report Date: 02/06/06 17:45

Work Order #: 9779

Project ID: 05-02-015

Lab Batch #: 30452 **Sample:** 9779-002 / SMP **Batch:** 1 **Matrix:** W

Units: ug/L

EDB / DBCP by SW8011 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	4.0	4.6	87	60-140	

Lab Batch #: 30452 **Sample:** 9779-003 / SMP **Batch:** 1 **Matrix:** W

Units: ug/L

EDB / DBCP by SW8011 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.3	4.6	115	60-140	

Lab Batch #: 30452 **Sample:** 9779-003 / SMP **Batch:** 1 **Matrix:** W

Units: ug/L

EDB / DBCP by SW8011 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	4.8	4.6	104	60-140	

Lab Batch #: 30452 **Sample:** 9779-004 / SMP **Batch:** 1 **Matrix:** W

Units: ug/L

EDB / DBCP by SW8011 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.7	4.8	119	60-140	

Lab Batch #: 30452 **Sample:** 9779-004 / SMP **Batch:** 1 **Matrix:** W

Units: ug/L

EDB / DBCP by SW8011 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	6.3	4.8	131	60-140	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Labortatory QC limits

Version: 1.%

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

CHAIN OF CUSTODY

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

Company Name: Consultech Environmental
Address: 1800 Mackeod Dr. Suite F.
Results Sent to: (Client Contact): Jim Wilson
Email address:
Contact Phone #: 678 377 0400 Fax#:
Project (Site) Name: George Southern Grocery
Project Number: C-05-02-015

Billing address:
P.O.# (if required):

For Laboratory Use Only: AAL LIMS System ID: 14638
QC Level 1 2 3 4 CLP-Like Receiver's Initials/Temp: —
Custody Seal(s): Y N Tape AAL Work Order # 16145

Preservation Code: (See below)

Sampler(s): (signature): Drew Miller
Sampler(s): (printed): Drew Miller

Analysis Requested: BTEX MtBE Naph 1,2DCA & oxygenates (8260B); EDB 8011; Total lead

Field Comments:

Line No.	Sample ID #	Sample Date / Time	Composite	Grab	Matrix (See below)	Sample Location	No. of Containers	BTEX MtBE Naph 1,2DCA & oxygenates (8260B)	EDB 8011	Total lead	AAL Lab ID: 16145
1	MW 34	4/5/06 1300		X	GW	Campobello SC	6	↓	↓	↓	-001
2	MW 44	4/5/06 1230		X	GW	↓	6	↓	↓	↓	-002
3	MW 45	4/5/06 1200		X	GW	↓	6	↓	↓	↓	-003
4											-
5											-
6											-
7											-
8											-
9											-
10											-

1) Relinquished By:	Date / Time	2) Received By:	Date / Time	Delivered by: (Circle One)
Drew Miller	4/6/06 950	[signature]	4/6/05 0950	Fed Ex / UPS / DHL / AAL Pickup / Hand / Other
3) Relinquished By:	Date / Time	4) Received By:	Date / Time	Turnaround Time Requested:
				Standard

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)

Preservation Codes: 1=HCL / 2=HNO_3 / 3=H_2SO_4 / 4=NaOH+$NaAsO_2$ / 5=NaOH+ZnAc / 6=$Na_2S_2O_3$ / 7=$NaHSO_4$ / 8=MeOH

Certificate of Analytical Results 10145

Consultech Environmental, Inc., Lawrenceville, GA

George Southers Grocery

Sample Id: **MW 34**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **10145-001**	Date Collected: **Apr-05-06 13:00**	Date Received: **Apr-06-06 09:50**
Sample Depth:		

Analytical Method: EDB by SW8011 Prep Method: EXT_SW8011

Date Analyzed: Apr-06-06 15:37 Analyst: MJL01 Date Prep: Apr-06-06 16:06 Tech: BPR01
Seq Number: 31410

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.019	0.0047	ug/L		1

Analytical Method: Lead by SW6010B Prep Method: SW3010A

Date Analyzed: Apr-07-06 13:58 Analyst: SS02 Date Prep: Apr-07-06 09:30 Tech: MSN01
Seq Number: 31429

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	BRL	0.0100	0.00390	mg/L		1

Analytical Method: Select VOCs by SW8260B Prep Method: SW5030B

Date Analyzed: Apr-14-06 19:55 Analyst: GB01 Date Prep: Apr-14-06 14:59 Tech: GB01
Seq Number: 31563

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.67	ug/L		1
Toluene	108-88-3	1.2	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	BRL	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	BRL	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1

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Version: 1.002

Certificate of Analytical Results 10145

Consultech Environmental, Inc., Lawrenceville, GA

George Southers Grocery

Sample Id: **MW 44**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **10145-002**	Date Collected: **Apr-05-06 12:30**	Date Received: **Apr-06-06 09:50**
Sample Depth:		

Analytical Method: EDB by SW8011 Prep Method: EXT_SW8011

Date Analyzed: Apr-06-06 16:12 Analyst: MJL01 Date Prep: Apr-06-06 16:06 Tech: BPR01
Seq Number: 31410

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.019	0.0046	ug/L		1

Analytical Method: Lead by SW6010B Prep Method: SW3010A

Date Analyzed: Apr-07-06 14:04 Analyst: SS02 Date Prep: Apr-07-06 09:30 Tech: MSN01
Seq Number: 31429

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	0.430	0.0100	0.00390	mg/L		1

Analytical Method: Select VOCs by SW8260B Prep Method: SW5030B

Date Analyzed: Apr-14-06 21:10 Analyst: GB01 Date Prep: Apr-14-06 14:59 Tech: GB01
Seq Number: 31563

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.67	ug/L		1
Toluene	108-88-3	1.2	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	BRL	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	1.2	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	1.7	1.0	0.62	ug/L		1
Naphthalene	91-20-3	13	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1

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Version: 1.002

Certificate of Analytical Results 10145

Consultech Environmental, Inc., Lawrenceville, GA

George Southers Grocery

Sample Id: **MW 45** Matrix: **WATER** % Moisture:
Lab Sample Id: **10145-003** Date Collected: **Apr-05-06 12:00** Date Received: **Apr-06-06 09:50**
Sample Depth:

Analytical Method: EDB by SW8011 Prep Method: EXT_SW8011

Date Analyzed: Apr-06-06 16:30 Analyst: MJL01 Date Prep: Apr-06-06 16:06 Tech: BPR01
Seq Number: 31410

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.019	0.0047	ug/L		1

Analytical Method: Lead by SW6010B Prep Method: SW3010A

Date Analyzed: Apr-07-06 14:29 Analyst: SS02 Date Prep: Apr-07-06 09:30 Tech: MSN01
Seq Number: 31429

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	0.0705	0.0100	0.00390	mg/L		1

Analytical Method: Select VOCs by SW8260B Prep Method: SW5030B

Date Analyzed: Apr-14-06 21:36 Analyst: GB01 Date Prep: Apr-14-06 14:59 Tech: GB01
Seq Number: 31563

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.67	ug/L		1
Toluene	108-88-3	1.1	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	BRL	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	BRL	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1

Sample Id: **29424 BLK** Matrix: **WATER** % Moisture:
Lab Sample Id: **29424 BLK** Date Collected: Date Received:
Sample Depth:

Analytical Method: EDB by SW8011 Prep Method: EXT_SW8011

Date Analyzed: Apr-06-06 14:43 Analyst: MJL01 Date Prep: Apr-06-06 16:06 Tech: BPR01
Seq Number: 31410

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.020	0.0049	ug/L		1

*

Version: 1.002

Certificate of Analytical Results 10145

Consultech Environmental, Inc., Lawrenceville, GA

George Southers Grocery

Sample Id: **29434 BLK** Matrix: **WATER** % Moisture:
Lab Sample Id: **29434 BLK** Date Collected: Date Received:
Sample Depth:

Analytical Method: Lead by SW6010B Prep Method: SW3010A

Date Analyzed: Apr-07-06 13:06 Analyst: SS02 Date Prep: Apr-07-06 09:30 Tech: MSN01
Seq Number: 31429

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	BRL	0.0100	0.00390	mg/L		1

Sample Id: **29527 BLK** Matrix: **WATER** % Moisture:
Lab Sample Id: **29527 BLK** Date Collected: Date Received:
Sample Depth:

Analytical Method: Select VOCs by SW8260B Prep Method: SW5030B

Date Analyzed: Apr-14-06 19:30 Analyst: GB01 Date Prep: Apr-14-06 14:59 Tech: GB01
Seq Number: 31563

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.67	ug/L		1
Toluene	108-88-3	BRL	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	BRL	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	BRL	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1

*

Version: 1.002

Form 2 - Surrogate Recoveries

Project Name: George Southers Grocery

Report Date: 04/24/06 10:18

Project ID: C-05-02-015

Work Order #: 10145

Lab Batch #: 31410 **Sample:** 10145-001 / SMP **Batch:** 1 **Matrix:** W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.9	4.8	123	60-140	

Lab Batch #: 31410 **Sample:** 10145-001 / SMP **Batch:** 1 **Matrix:** W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.3	4.8	110	60-140	

Lab Batch #: 31410 **Sample:** 10145-002 / SMP **Batch:** 1 **Matrix:** W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.6	4.7	119	60-140	

Lab Batch #: 31410 **Sample:** 10145-002 / SMP **Batch:** 1 **Matrix:** W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.6	4.7	119	60-140	

Lab Batch #: 31410 **Sample:** 10145-003 / SMP **Batch:** 1 **Matrix:** W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	6.4	4.8	133	60-140	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Labortatory QC limits

Version: 1.%

Form 2 - Surrogate Recoveries

Project Name: George Southers Grocery

Report Date: 04/24/06 10:18

Work Order #: 10145

Project ID: C-05-02-015

Lab Batch #: 31410 **Sample:** 10145-003 / SMP **Batch:** 1 **Matrix:** W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.8	4.8	121	60-140	

Lab Batch #: 31410 **Sample:** 29424 BLK / BLK **Batch:** 1 **Matrix:** W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.2	5.0	104	60-140	

Lab Batch #: 31410 **Sample:** 29424 BLK / BLK **Batch:** 1 **Matrix:** W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.2	5.0	104	60-140	

Lab Batch #: 31563 **Sample:** 10145-001 / SMP **Batch:** 1 **Matrix:** W

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	56.33	50.00	113	66-150	
Bromofluorobenzene	55.98	50.00	112	81-130	
Toluene-d8	54.87	50.00	110	83-127	

Lab Batch #: 31563 **Sample:** 10145-002 / SMP **Batch:** 1 **Matrix:** W

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	62.80	50.00	126	66-150	
Bromofluorobenzene	55.38	50.00	111	81-130	
Toluene-d8	54.04	50.00	108	83-127	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Labortatory QC limits

Version: 1.%

Form 2 - Surrogate Recoveries

Project Name: George Southers Grocery

Report Date: 04/24/06 10:18

Work Order #: 10145

Project ID: C-05-02-015

Lab Batch #: 31563 **Sample:** 10145-003 / SMP **Batch:** 1 **Matrix:** W

Units: ug/L

Select VOCs by SW8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	59.40	50.00	119	66-150	
Bromofluorobenzene	56.40	50.00	113	81-130	
Toluene-d8	54.55	50.00	109	83-127	

Lab Batch #: 31563 **Sample:** 29527 BLK / BLK **Batch:** 1 **Matrix:** W

Units: ug/L

Select VOCs by SW8260B Analytes	SURROGATE RECOVERY STUDY				
	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	52.98	50.00	106	69-132	
Bromofluorobenzene	57.95	50.00	116	84-130	
Toluene-d8	55.43	50.00	111	86-127	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.
Z = Surrogate Recovery exceeded the Labortatory QC limits

Version: 1.%

APPENDIX 6
Soil, Water, and LPH Waste Disposal Manifest

CONSULTECH ENVIRONMENTAL, INC.

May 1, 2006

Ms. Maia Milenkova
Assessment and Corrective Action Division
Underground storage Tank Program
South Carolina DHEC
2600 Bull Street
Columbia, South Carolina 29201

RE: Disposal manifests for soil and water encountered during Tier II work
George Souther's Grocery
280 Goodjoin Road
Campobello, South Carolina 29322
SCDHEC Site ID #08650, CA#21963

Dear Ms. Milenkova,

This letter serves as certification that all water and soil encountered during our Tier II work was handled in a manner that complies with all conditions established by DHEC for treatment of small amounts of petroleum hydrocarbon contaminated soils and groundwater.

Source:

Soil and groundwater obtained as a result of soil sampling, well development and groundwater sampling.
Conditions:

- No free product was disposed of separately from the drums of water.
- Analytical results show an average concentration of less than 5.0 ppb Benzene and less than 20.0 ppb total BTEX.
- The water obtained was containerized on site, for a period of less than 30 days, prior to treatment by the activated carbon canisters.
- Records of carbon canister usage are maintained by Consultech.
- The carbon canisters have an expected life of 5,000 gallons before replacement is required.
- Recommendations and conditions issued by the canister manufacturer and SCDHEC have been followed.
- All water obtained was treated on site using an up-flow treatment drum consisting of 90 lbs. of activated carbon. Manufacturer's suggested treatment life is 5,000 gallons of water.

Specific site conditions of referenced site:

- A total of one 55-gallon drum of water was treated on April 5, 2006 at the referenced site.
- No 55-gallon drums of soil were removed from the referenced site and disposed of since the soil was clean.

Should you have any questions, please contact me at 678-377-0400.

Sincerely,
Consultech Environmental, Inc.

James R. Wilson, P.G.
Senior Project Manager

1800 MacLeod Drive, Suite F * Lawrenceville, GA 30043-5376
678 377-0400 * FAX 678 377-0051

RAPID ASSESSMENT ADDENDUM REPORT

George Souther's Grocery
Intersection of Goodjoin & Mt. Lebanon Roads
Campobello, South Carolina
GWPD Site No.: 08650

September 22, 1998

Prepared by:

RECEIVED
OCT 2 1998
DIVISION OF UNDERGROUND
STORAGE TANK MGMT.

NESCO
For Practical Solutions.

1941 Decker Blvd.
Columbia, South Carolina 29206

UST DOCKET 010T

NESCO Project No.: 21-31

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LITHOLOGIC / WELL CONSTRUCTION LOG	B
BORING LOGS	C
GRAIN SIZE DISTRIBUTION DATA	D

RECEIVED

OCT 2 1998

DIVISION OF UNDERGROUND STORAGE TANK MGMT.

1.0 INTRODUCTION

This report presents the findings of a Rapid Assessment (RA) of soil and groundwater contamination at the Souther's Grocery site located in Spartanburg County, Campobello SC, (GWPD Site No.: 08650 & CP No. 03441) presently owned and operated by (and the SCDHEC responsible party designate):

Mr. George E. Southers
195 Goodjoin Road
Campobello, SC 29322

This assessment was conducted by:

NESCO
1941 Decker Boulevard
Columbia, SC 29206
Phone: (803) 790-0602

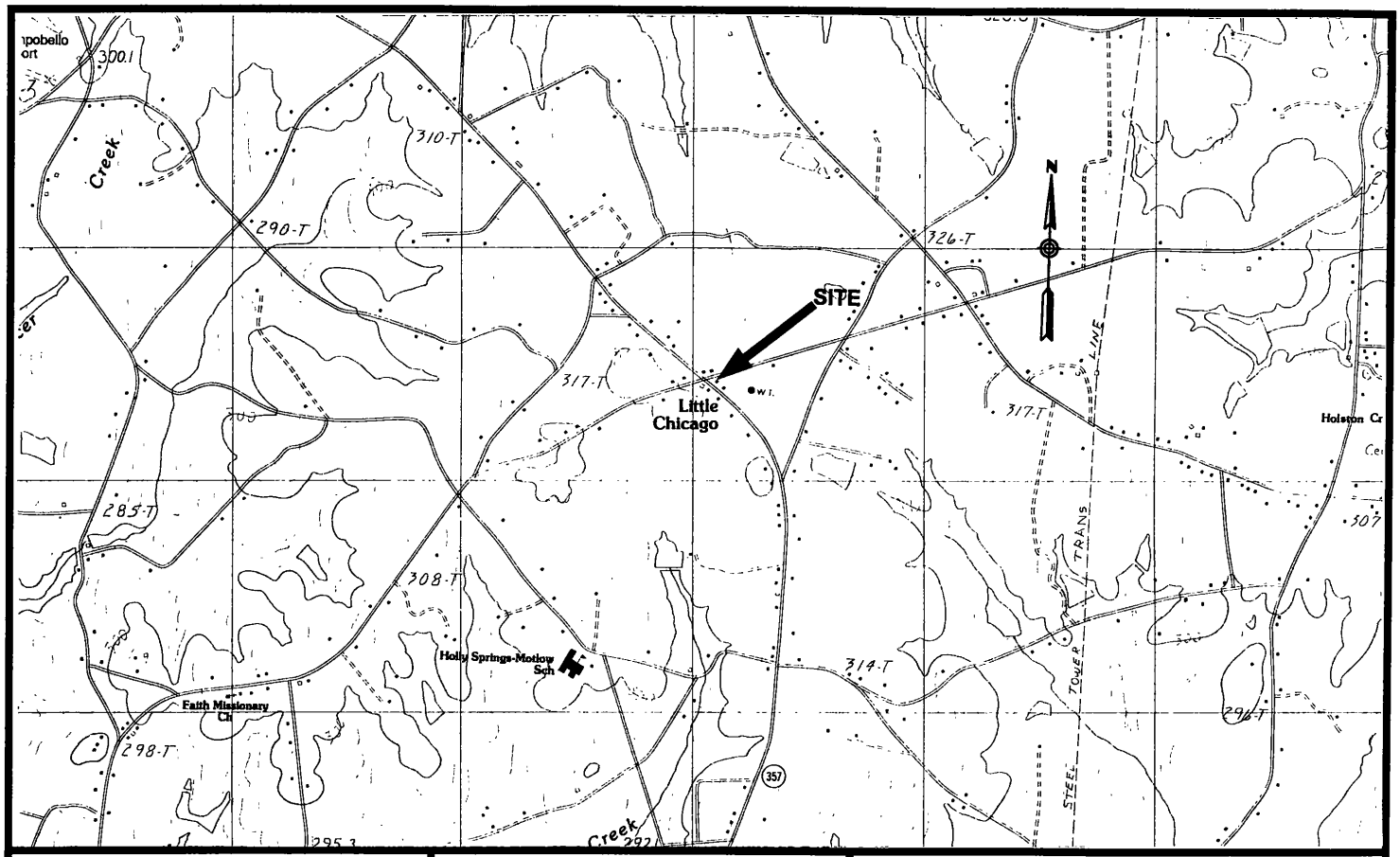
The RA Addendum Work Plan was approved in correspondence from Mr. Sriram Madabhushi of the SCDHEC Bureau of UST Management to Mr. George E. Souther's dated July 16, 1998.

The site is located in a rural area (known as Little Chicago) at the intersection of Goodjoin & Mt. Lebanon Roads in Spartanburg County, Campobello, South Carolina. The facility is currently a convenience / grocery store (which provides retail gas sales to the public). The site location is depicted in Figure 1 and a site map is displayed as Figure 2.

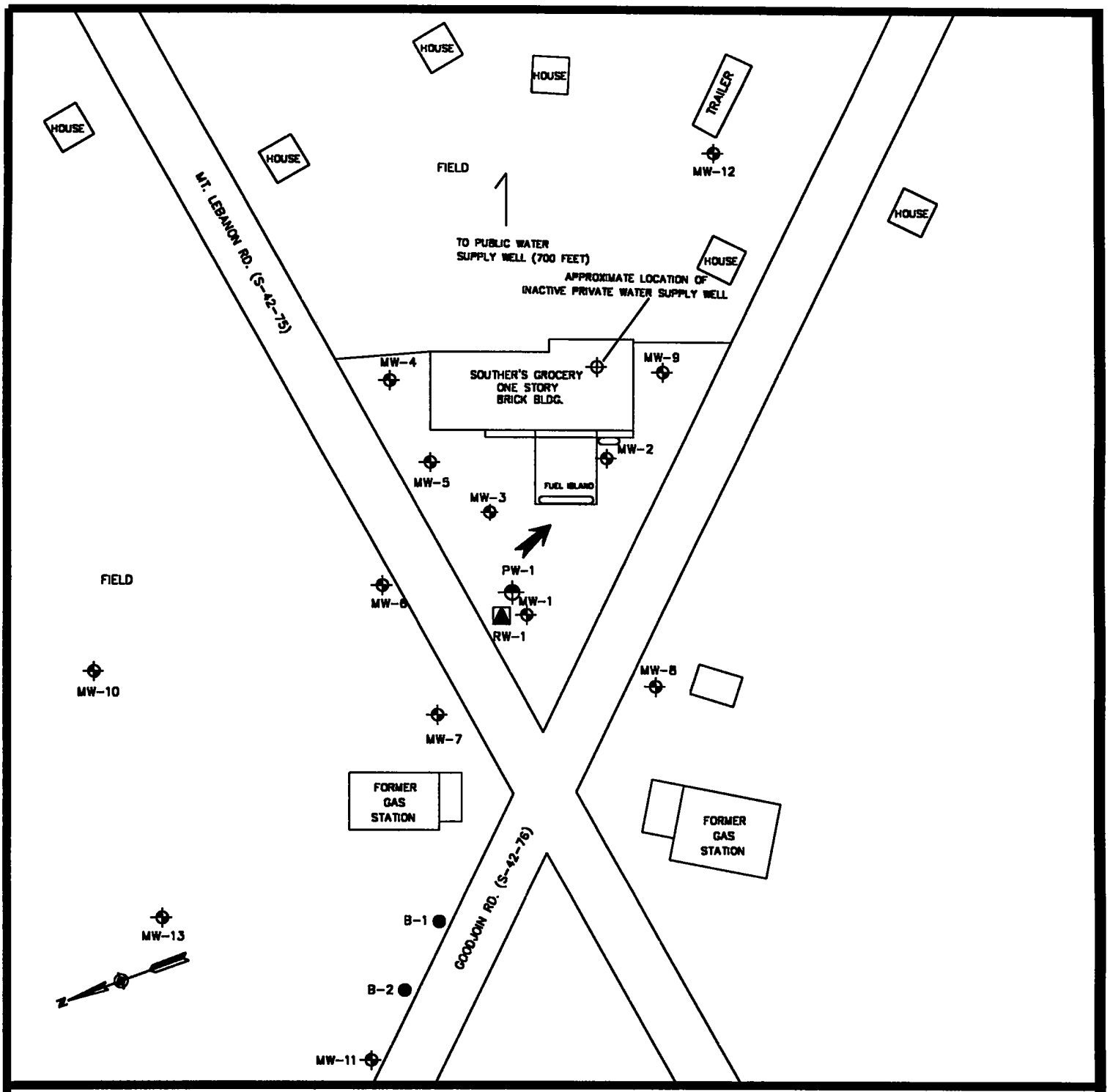
1.1 Regional Geology

The Souther's Grocery site is located in the Piedmont Physiographic Province of South Carolina. This province consists of several distinct belts of rocks including the Inner Piedmont, Kings Mountain, Charlotte, Carolina Slate, Kiokee and Belair belts. Rocks beneath the subject facility appear to lie within the Inner Piedmont Belt. The Inner Piedmont Belt occurs laterally across northwestern South Carolina, extending to the northeast into North Carolina and to the southwest into Georgia.

The Inner Piedmont Belt is generally comprised of rocks of medium to high metamorphic grade which include granitic gneiss, mica schist, sillimanite schist and amphibolite. Soils within the Piedmont Physiographic Province are generally the product of intense chemical weathering over geologic time. The resultant soil, commonly referred to as saprolite, often retains relict textures from the parent rock and can be useful during geologic mapping.



SOUTHER'S GROCERY **GWPD SITE NO. 08650** **GOODJOIN & MT. LEBANON RD.** **CAMPOBELLO, SC**	**FIGURE 1** **SITE LOCATION MAP** **CAMPOBELLO QUADRANGLE** **SCALE 1" = 2000'**	***NESCO*** *For Practical Solutions.*



LEGEND:

- MONITORING WELLS
- RECOVERY WELL
- PIT WELL
- DIRECTION OF GROUNDWATER FLOW

70 0 70

SCALE: 1" = 70'

SOUTHERS GROCERY
GWPD SITE NO. 08650
GOODJOIN AND MT. LEBANON ROAD
CAMPOBELLO, SOUTH CAROLINA
NESCO PROJECT NO. 31

FIGURE 2

SITE MAP

NESCO
For Practical Solutions.
CONSULTING ENGINEERS & SCIENTISTS
1941 DECKER BOULEVARD, COLUMBIA, SOUTH CAROLINA, 29206 USA
PHONE: 803 790 0602 FACSIMILE: 803 790 0699

1.2 Receptor Survey

To evaluate the potential for exposure of the surrounding population and environment to CoC, a receptor survey was conducted for the site and surrounding properties within a 1,000 foot radius of the area of investigation. The scope of the survey is provided in the table below:

RECEPTOR	AREA OF SEARCH RADIUS
wells (drinking and non-drinking water wells)	1,000 feet
surface waters (potential wetlands, creeks, streams, etc.,)	1,000 feet
basements (residential and non-residential structures)	1,000 feet
underground utilities (water, sewer, telephone, electric, etc.,)	250 feet

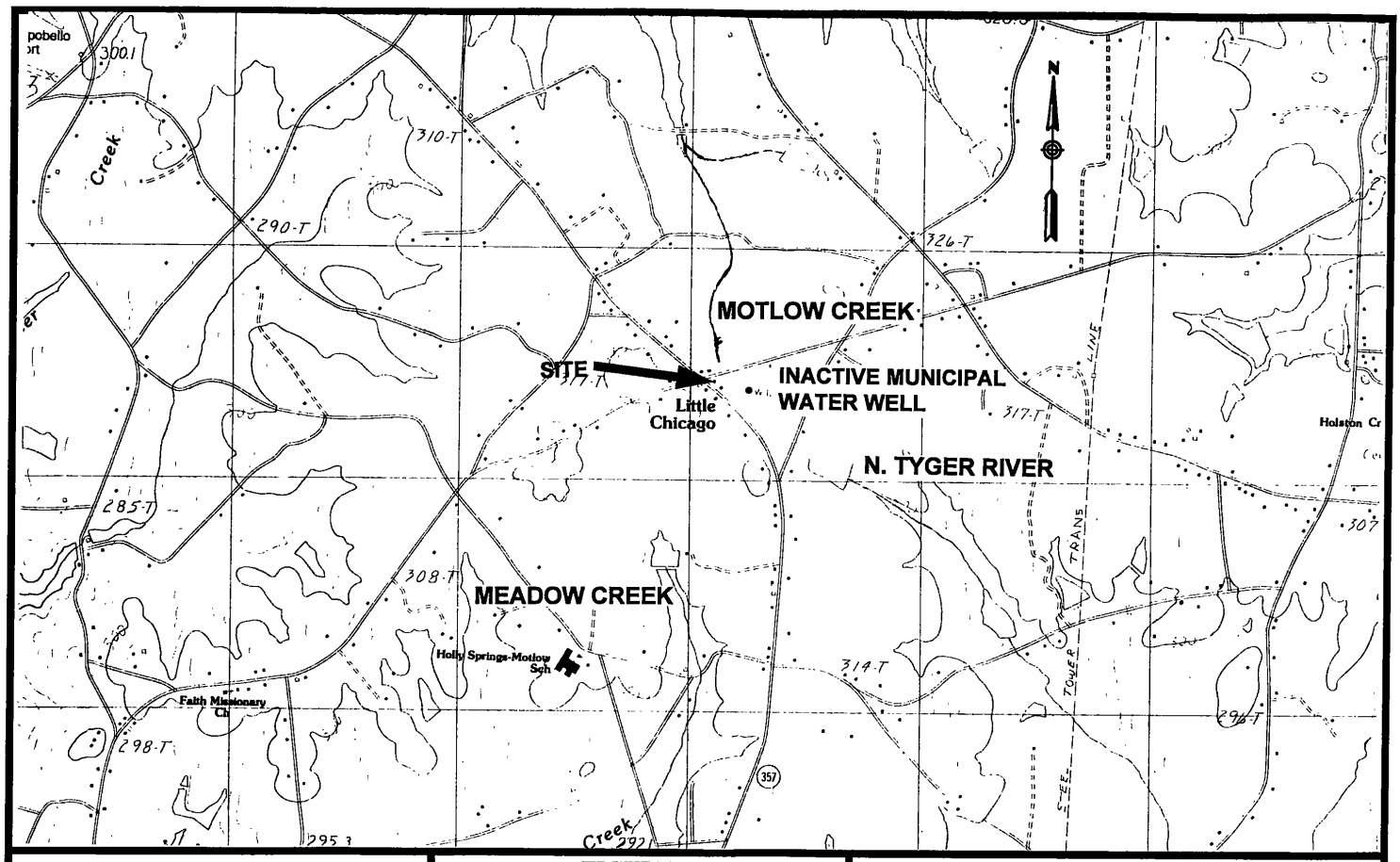
Three potential receptors were noted in the search radius of the site during the survey (See Figure 4). (1) A well is located on the Souther's site formerly used to wash vehicles. Reportedly, the well is not currently used. The well is located under the main building and accessible only by the crawl space. However, the well could be used in the future since it has not been capped or permanently abandoned. Well construction details (depth, screened interval, etc.) are presently unknown. Also, it should be noted that during the receptor survey, most residents were not home and could not be contacted. Therefore, it is likely that other wells may be in the vicinity and their locations are simply unknown at the present time. (2) A municipal water supply well is located 700 feet east southeast of the site. (3) A tributary of Motlow Creek is located approximately 200 feet north northeast of the site.

Supplied water has only been available to the area for the past 25 years. Conversations with SJWD Water District confirm that not all residents (in the general area of the site) receive supplied water. However, NESCO understands (from residents that could be contacted) that most area residents have either capped or are simply not using their old wells. A conversation with Mr. Larry Crain of the SJWD Water District on September 8, 1998 revealed that the municipal water well was no longer in use. However, it was not able to be determined whether this well has been abandoned.

A water main (at a depth of 4-6 feet) runs parallel to the site along Goodjoin Road (S-42-76). Overhead electrical and phone lines were observed on site and within the vicinity of the site. Area sewer needs are meet by individual septic systems.

The onsite well has the greatest potential for hydrocarbon access. This well was not sampled during current field activities. However, conversations with George Southers revealed the well water smelled of gasoline when last used.

Due to the shallow depth of the water main, it is unlikely that hydrocarbons could access the trench (enhancing offsite migration). Depth to ground water in the area (during an elevated water table) ranges from approximately 8.5 feet (low end of site) to 17.2 feet (high end of site).



SOUTHER'S GROCERY **GWPD SITE NO. 08650** **GOODJOIN & MT. LEBANON RD.** **CAMPOBELLO, SC**	**FIGURE 3** **RECEPTOR MAP** **CAMPOBELLO QUADRANGLE** **SCALE 1" = 2000'**	***NESCO*** *For Practical Solutions.*

2.0 ASSESSMENT INFORMATION

2.1 Site Specific Geology and Hydrogeology

The Souther's site is located within the Piedmont Physiographic Province of South Carolina. The site appears to lie within the Inner Piedmont Belt which is generally comprised of rocks of medium to high metamorphic grade. Site specific geology consists of a micaous clayey silty sand (high in minerals) varying in color from yellowish orange (near surface) to tan-red-brown saprolite at the deepest investigated depth of 47 feet.

Site hydrogeology is somewhat unusual in that groundwater flows in two directions. The primary flow direction of groundwater is to the southeast along Goodjoin Road. A secondary flow direction of groundwater is to the northeast. The site is perched on a knoll and groundwater appears to be influenced by two separate hydraulic draws. The eastern (upper) most part of the site is influenced by the elevations at an unnamed pond located approximately 2,000 feet southeast of the site. This discharge from this pond is a tributary of the North Tyger River. The western (lower) most part of the site is influenced by a tributary of Motlow creek located approximately 200 feet to the north of the site. Groundwater flow direction is generally towards these hydraulic draws. Potential hydraulic draws are depicted on Figure 3.

The potentiometric field data generated during the Rapid Assessment indicated that groundwater movement was migrating to the southeast. However, historical data and groundwater quality beneath the lower end of the site mandated a secondary flow direction. These trends are also depicted in the drainage patterns in the area.

2.2 Site Assessment Activities and Results

Assessment activities began on July 22, 1998 and concluded on September 15, 1998. During this period, NESCO personnel installed two field screening points and four additional monitor wells, collected groundwater samples, and surveyed the new wells.

2.2.1 Field Screening

Two additional field screening points were installed along goodjoin road upgradient of field screening point GP-7. Field screening point GP-7 was the furthest upgradient screening point during the RA effort. Soil samples were collected on five foot intervals and screened with an OVA PID. Boring Logs are located in Appendix B. Field screening locations are displayed on Figure 2.

2.2.2 Monitoring Well Installation, Sampling and Testing

Four additional permanent groundwater monitoring wells were installed on July 22, 1998 and August 18-19, 1998. MW-2 was not sampled because it was dry during the sampling event. All wells were purged by comparing pH, conductivity, and temperature until stabilization had occurred. Samples were immediately packed in crushed ice following collection. A Chain of Custody / Work Request was completed prior to offsite sample removal. All groundwater samples were transported to Shealy Environmental Services, Inc. for testing. Monitor well construction diagrams are provided in Appendix C. Top of casing elevations were measured on September 15, 1998.

The laboratory analytical results from the two sampling events indicated the presence of benzene, toluene, ethylbenzene, xylenes, naphthalene, MTBE, and EDB in concentrations above the applicable RBSL / MCL in the shallow aquifer beneath the site. Benzene was found in the deep well (PW-1) in a concentration of 1,480 micrograms per liter (ug/l), also exceeding RBSL / MCL. In addition, EDB was found in groundwater from monitor wells MW-1, MW-3, MW-5, MW-6, MW-7, MW-8, MW-9 and RW-1 at concentrations of 215, 898, 943, 143, 120, 605, 1100, and 178 ug/l, respectively. Also, during this scope of work MTBE concentrations were reported within the groundwater from four monitor wells, thereby confirming the presence of MTBE at the Souther's Grocery site. The current results indicate a significant increase in dissolved phase contaminant concentrations.

The laboratory results of CoC for all wells are summarized in Table 1 and data sheets can be found in Appendix A.

Groundwater screening during the rapid assessment along the south side of Goodjoin road (GW-3 and GW-5) indicated that levels of petroleum hydrocarbons were considerably lower in these areas. Analytical results from these samples are also included in Appendix A. Installation of monitor wells in this direction may be difficult due to the shallow distance to bedrock (R-12, R-14, R-20, R-27). Bedrock also outcrops at the surface beyond R-12 and R-14.

TABLE 1
Groundwater Quality Data
Souther's Grocery (GWPD Site No.: 08650)

Sample Location:	MW-1	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	RBSL
Sample Date:	7/22/98	7/22/98	7/22/98	7/22/98	7/22/98	7/22/98	7/22/98	
Benzene	**70,500**	**40,400**	**65.3**	**37,600**	**14,300**	**35,000**	**38,800**	5
Toluene	**445,000**	**42,700**	106	232	**29,500**	**54,000**	**80,900**	1,000
Ethylbenzene	**8,260**	**3,430**	13.8	**6,770**	**2,390**	**4,230**	**6,840**	700
Xylenes	**32,000**	**14,100**	56.9	**29,200**	8,340	**11,000**	**28,100**	10,000
Total BTEX	555,760	100,630	242	73,802	54,530	104,230	154,640	N/A
MTBE	**7,260**	**65.5**	BDL	BDL	BDL	**267**	**62.2**	40
EDB	**215**	**898**	BDL	**943**	143	**120**	**605**	0.05
Total Lead	**588**	**785**	BDL	**258**	**118**	**173**	**127**	15
Naphthalene	**1,480**	**729**	**25.2**	**1,920**	**473**	**557**	**3,520**	25

NOTES:
All concentrations reported in parts per billion (ppb), with the exception of nitrate, sulfate, and iron concentrations reported in parts per million (ppm).
NA - Not Analyzed
BDL - Not Detected (below laboratory minimum detection limits)

Nutrient Data

Sample Location:	MW-1	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8
dissolved oxygen	1.6	NA					
nitrate	0.021	0.058	BDL	BDL	0.075	0.021	0.054
sulfate	1.30	3.31	6.98	1.85	24.0	10.3	BDL
iron	1.84	0.549	0.445	0.204	0.407	0.771	1.42

TABLE 1 (Cont.)
Groundwater Quality Data
Souther's Grocery (GWPD Site No.: 08650)

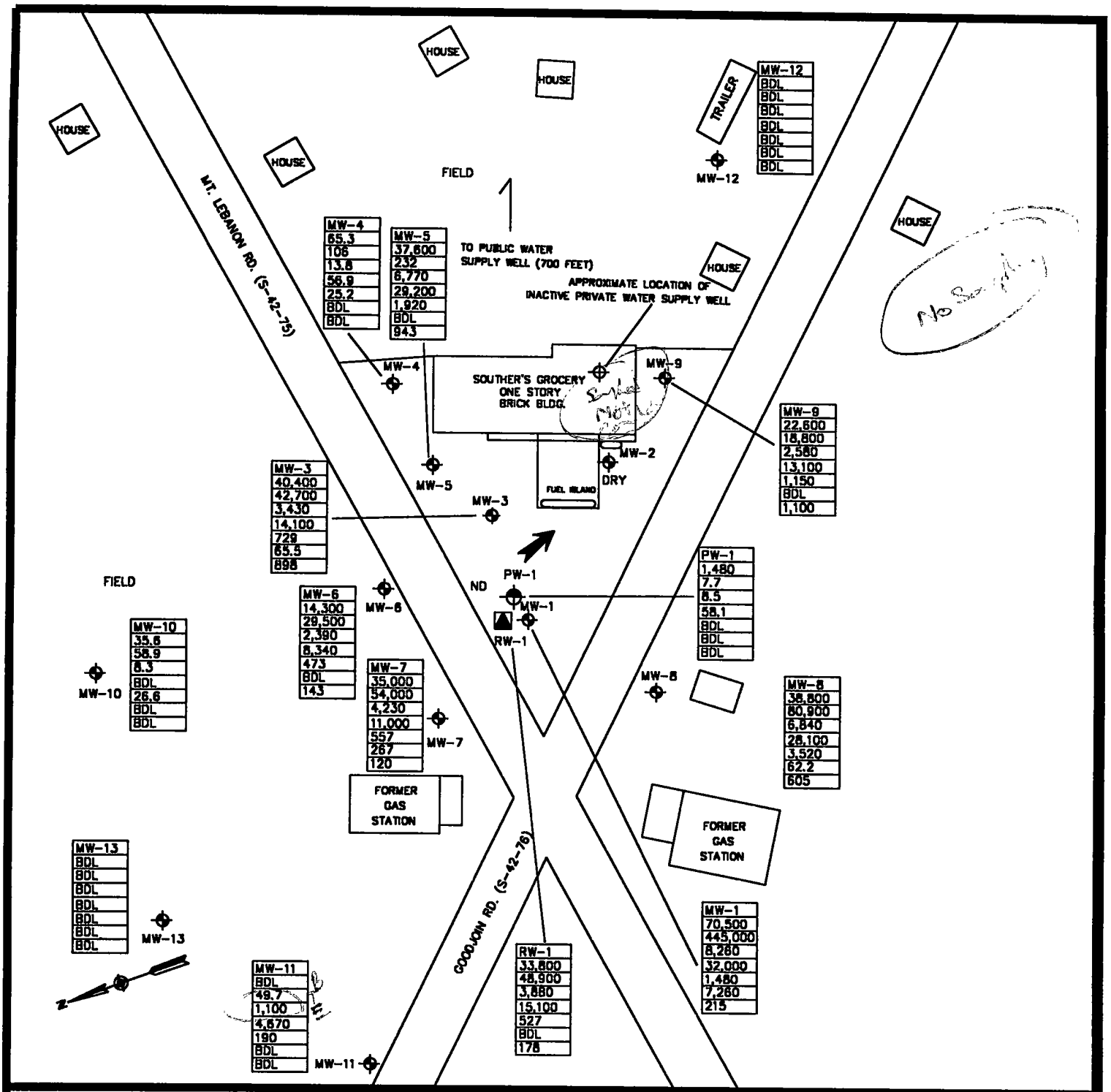
Sample Location:	MW-9	MW-10	MW-11	MW-12	MW-13	RW-1	PW-1	RBSL
Sample Date:	7/22/98	7/22/98	8/31/98	8/31/98	8/31/98	7/22/98	7/22/98	
Benzene	**22,600**	**35.6**	BDL	BDL	BDL	**33,800**	**1,480**	5
Toluene	**18,800**	58.9	49.7	BDL	BDL	**48,900**	7.7	1,000
Ethylbenzene	**2,580**	8.3	**1,100**	BDL	BDL	**3,880**	8.5	700
Xylenes	**13,100**	BDL	4,670	BDL	BDL	**15,100**	58.1	10,000
Total BTEX	57,080	102.8	5819.7	BDL	BDL	101,680	1,554.3	N/A
MTBE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	40
EDB	**1,100**	BDL	BDL	BDL	BDL	**178**	BDL	0.05
Lead	BDL	**216**	**45**	**91**	**404**	**380**	BDL	15
Naphthalene	**1,150**	**26.6**	**190**	BDL	BDL	**527**	BDL	25

NOTES:

All concentrations reported in parts per billion (ppb), with the exception of nitrate, sulfate, and iron concentrations reported in parts per million (ppm).
NA - Not Analyzed
BDL - Not Detected (below laboratory minimum detection limits)

Nutrient Data

Sample Location:	MW-9	MW-10	MW-11	MW-12	MW-13	RW-1	PW-1
dissolved oxygen							
nitrate	BDL	0.066	NA	NA	NA	BDL	BDL
sulfate	5.32	2.54	NA	NA	NA	3.02	BDL
iron	0.637	1.90	NA	NA	NA	0.190	3.75



LEGEND:

- MONITORING WELLS
- RECOVERY WELL
- PIT WELL
- DIRECTION OF GROUNDWATER FLOW

MONITOR WELL
BENZENE
TOLUENE
ETHYLBENZENE
XYLENES
NAPHTHALENE
MTBE
EDB

07/1998

70 0 70

SCALE: 1" = 70'

SOUTHERS GROCERY
GWPD SITE NO. 08650
GOODJOIN AND MT. LEBANON ROAD
CAMPOBELLO, SOUTH CAROLINA
NESCO PROJECT NO. 31

FIGURE 4

CoC MAP - GROUNDWATER

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3.0 CONCLUSIONS AND RECOMMENDATIONS

During the SPATCO monitor well installation effort (in 1993), offsite vadose zone (10 feet bls) soil samples were collected at locations MW-7 & MW-8. These soil samples (MW7 10 & MW8 10) revealed elevated levels of hydrocarbons in offsite soils, and may indicate another vadose zone source pathway into what would be a coming lead plume. One location (former J.B. Williams & Son Grocery) reportedly has been the location of a gas station for at least fifty years. The other location (presently Mad House Café) reportedly has been the location of a gas station for at least sixty years.

NESCO has completed a Rapid Assessment Addendum for the George Souther's Grocery site located in Campobello, South Carolina. Data generated during this assessment indicated the presence of CoC in groundwater above the RBSLs for benzene, toluene, ethylbenzene, xylenes, naphthalene, MTBE, ethylene dibromide and lead within the shallow aquifer beneath the site. The primary groundwater flow appears to be to the southeast at a rate of approximately 33.9 ft./year towards a pond located approximately 2,000 feet from the site. The secondary groundwater flow is to the northeast towards a pond located approximately 1,200 feet from the site. Groundwater flows to the nearby ponds which discharge into the Motlow and Meadow Creeks, respectively.

Receptors include an onsite drinking water well (reportedly idle) located approximately 52 feet from monitoring well MW-2 and a municipal drinking water well located 700 feet east southeast of the site. Unknown drinking water wells may be in the area and future irrigation wells installed could be impacted by the release. No additional private water wells were found in the receptor survey search radius.

One other known receptor located at the site is the water main trench which parallels Goodjoin Road. However, due to the shallow depth of the water main and depth to groundwater, it is unlikely that hydrocarbons could access the trench.

The vertical extent of the plume extends to bedrock as demonstrated by the 1,480 ppb benzene concentration collected from PW-1 which is screened from 42 to 47 feet on rock.

Currently, only the Souther's store dispenses gasoline. However, the public consensus is that all four corners of the intersection were gas stations within the last 50 to 70 years. This information offers an explanation for some of our findings and represents the possibility of multiple sources and releases.

Based upon a review of the data generated by this assessment, NESCO recommends the following:

1. A remediation design will need to be implemented to reduce current contamination levels within the shallow subsurface and incorporate a treatment for benzene contamination at the bedrock/saprolite interface.

2. A groundwater monitoring and surface water monitoring program be developed and implemented to monitor the conditions of the site and nearby ponds as documented within this report.

NESCO is pleased to provide consulting services to the George Souther's Grocery site, and welcomes the opportunity to answer questions concerning this report. Please direct any questions to Jeremy Grant or Larry Mattila at (803) 790-0602.

Jeremy Grant
Staff Hydrogeologist

Lawrence H. Mattila, PG
SC Registration No. 2091

APPENDIX A

LABORATORY ANALYTICAL RESULTS

SHEALY ENVIRONMENTAL SERVICES, INC.

Scientists and Consultants

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CERTIFICATE OF ANALYSIS

SC DHEC No. 32010

NC DEHNR No. 329

Client: SRK
1941 Decker Blvd.
Columbia, SC 29206

Project Name: Southers Grocery

Attention: Larry Mattila

SHEALY Lab No: 142418R
Description: MW1

Coll. Date: 07/22/98
Coll. Time:

Date Received: 07/23/98
Date Reported: 08/03/98
Date Revised: 09/11/98

QA/QC Officer

V.P. Analytical

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
INORGANICS						
Nitrate + Nitrite	353.2	0.021	mg/l		07/24/98	EDN
Sulfate	300.0	1.30	mg/l		07/28/98	JPS
METALS						
Iron	200.7	1.84	mg/l	07/27/98	07/30/98	KCD
Lead	200.7	0.588	mg/l	07/27/98	07/30/98	KCD
VOLATILE ORGANICS					07/28/98	SAG
Benzene	8260A	70500	ug/l			
1,2-Dibromoethane (EDB)	8260A	215	ug/l			
Ethyl benzene	8260A	8260	ug/l			
Methyl tertiary butyl ether (MTBE)	8260A	7260	ug/l			
Naphthalene	8260A	1480	ug/l			
Toluene	8260A	445000	ug/l			
Total Xylenes	8260A	32000	ug/l			

SHEALY ENVIRONMENTAL SERVICES, INC.

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CERTIFICATE OF ANALYSIS

SC DHEC No. 32010

NC DEHNR No. 329

Client: SRK
1941 Decker Blvd.
Columbia, SC 29206

Project Name: Southers Grocery

Attention: Larry Mattila

SHEALY Lab No: 142419R
Description: MW3

Coll. Date: 07/22/98
Coll. Time:

Date Received: 07/23/98
Date Reported: 08/03/98
Date Revised: 09/11/98

QA/QC Officer MAN

V.P. Analytical MA

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
INORGANICS						
Nitrate + Nitrite	353.2	0.058	mg/l		07/24/98	EDN
Sulfate	300.0	3.31	mg/l		07/28/98	JPS
METALS						
Iron	200.7	0.549	mg/l	07/27/98	07/30/98	KCD
Lead	200.7	0.785	mg/l	07/27/98	07/30/98	KCD
VOLATILE ORGANICS					07/28/98	SAG
Benzene	8260A	40400	ug/l			
1,2-Dibromoethane (EDB)	8260A	898	ug/l			
Ethyl benzene	8260A	3430	ug/l			
Methyl tertiary butyl ether (MTBE)	8260A	65.5	ug/l			
Naphthalene	8260A	729	ug/l			
Toluene	8260A	42700	ug/l			
Total Xylenes	8260A	14100	ug/l			

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CERTIFICATE OF ANALYSIS

SC DHEC No. 32010

NC DEHNR No. 329

Client: SRK
1941 Decker Blvd.
Columbia, SC 29206

Project Name: Southers Grocery

Attention: Larry Mattila

SHEALY Lab No: 142420R
Description: MW4

Coll. Date: 07/22/98
Coll. Time:

Date Received: 07/23/98
Date Reported: 08/03/98
Date Revised: 09/11/98

QA/QC Officer

V.P. Analytical

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
INORGANICS						
Nitrate + Nitrite	353.2	<0.020	mg/l		07/24/98	EDN
Sulfate	300.0	6.98	mg/l		07/28/98	JPS
METALS						
Iron	200.7	0.445	mg/l	07/27/98	07/30/98	KCD
Lead	200.7	<0.020	mg/l			
VOLATILE ORGANICS					07/28/98	SAG
Benzene	8260A	65.3	ug/l			
1,2-Dibromoethane (EDB)	8260A	<5.0	ug/l			
Ethyl benzene	8260A	13.8	ug/l			
Methyl tertiary butyl ether (MTBE)	8260A	<5.0	ug/l			
Naphthalene	8260A	25.2	ug/l			
Toluene	8260A	106	ug/l			
Total Xylenes	8260A	56.9	ug/l			

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CERTIFICATE OF ANALYSIS

SC DHEC No. 32010

NC DEHNR No. 329

Client: SRK
1941 Decker Blvd.
Columbia, SC 29206

Project Name: Southers Grocery

Attention: Larry Mattila

SHEALY Lab No: 142421R
Description: MW5

Coll. Date: 07/22/98
Coll. Time:

Date Received: 07/23/98
Date Reported: 08/03/98
Date Revised: 09/11/98

QA/QC Officer

V.P. Analytical

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
INORGANICS						
Nitrate + Nitrite	353.2	<0.020	mg/l		07/24/98	EDN
Sulfate	300.0	1.85	mg/l		07/28/98	JPS
METALS						
Iron	200.7	0.204	mg/l	07/27/98	07/30/98	KCD
Lead	200.7	0.258	mg/l	07/27/98	07/30/98	KCD
VOLATILE ORGANICS					07/28/98	SAG
Benzene	8260A	37600	ug/l			
1,2-Dibromoethane (EDB)	8260A	943	ug/l			
Ethyl benzene	8260A	6770	ug/l			
Methyl tertiary butyl ether (MTBE)	8260A	<5.0	ug/l			
Naphthalene	8260A	1920	ug/l			
Toluene	8260A	232	ug/l			
Total Xylenes	8260A	29200	ug/l			

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CERTIFICATE OF ANALYSIS

SC DHEC No. 32010

NC DEHNR No. 329

Client: SRK
1941 Decker Blvd.
Columbia, SC 29206

Project Name: Southers Grocery

Attention: Larry Mattila

SHEALY Lab No: 142422R
Description: MW6

Coll. Date: 07/22/98
Coll. Time:

Date Received: 07/23/98
Date Reported: 08/03/98
Date Revised: 09/11/98

QA/QC Officer MAW

V.P. Analytical MB

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
INORGANICS						
Nitrate + Nitrite	353.2	0.075	mg/l		07/24/98	EDN
Sulfate	300.0	24.0	mg/l		07/28/98	JPS
METALS						
Iron	200.7	0.407	mg/l	07/27/98	07/30/98	KCD
Lead	200.7	0.118	mg/l	07/27/98	07/30/98	KCD
VOLATILE ORGANICS					07/28/98	SAG
Benzene	8260A	14300	ug/l			
1,2-Dibromoethane (EDB)	8260A	143	ug/l			
Ethyl benzene	8260A	2390	ug/l			
Methyl tertiary butyl ether (MTBE)	8260A	<5.0	ug/l			
Naphthalene	8260A	473	ug/l			
Toluene	8260A	29500	ug/l			
Total Xylenes	8260A	8340	ug/l			

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Client: SRK
1941 Decker Blvd.
Columbia, SC 29206

Project Name: Southers Grocery

Attention: Larry Mattila

SHEALY Lab No: 142423R
Description: MW7

Coll. Date: 07/22/98
Coll. Time:

Date Received: 07/23/98
Date Reported: 08/03/98
Date Revised: 09/11/98

QA/QC Officer MAN

V.P. Analytical MAN

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
INORGANICS						
Nitrate + Nitrite	353.2	0.021	mg/l		07/24/98	EDN
Sulfate	300.0	10.3	mg/l		07/28/98	JPS
METALS						
Iron	200.7	0.771	mg/l	07/27/98	07/30/98	KCD
Lead	200.7	0.173	mg/l	07/27/98	07/30/98	KCD
VOLATILE ORGANICS					07/28/98	SAG
Benzene	8260A	35000	ug/l			
1,2-Dibromoethane (EDB)	8260A	120	ug/l			
Ethyl benzene	8260A	4230	ug/l			
Methyl tertiary butyl ether (MTBE)	8260A	267	ug/l			
Naphthalene	8260A	557	ug/l			
Toluene	8260A	54000	ug/l			
Total Xylenes	8260A	11000	ug/l			

SHEALY ENVIRONMENTAL SERVICES, INC.

Scientists and Consultants

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CAYCE, SOUTH CAROLINA 29033

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FAX (803) 791-9111
www.shealyenvironmental.com

CERTIFICATE OF ANALYSIS

SC DHEC No. 32010

NC DEHNR No. 329

Client: SRK
1941 Decker Blvd.
Columbia, SC 29206

Project Name: Southers Grocery

Attention: Larry Mattila

SHEALY Lab No: 142424R
Description: MW8

Coll. Date: 07/22/98
Coll. Time:

Date Received: 07/23/98
Date Reported: 08/03/98
Date Revised: 09/11/98

QA/QC Officer mar

V.P. Analytical MB

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
INORGANICS						
Nitrate + Nitrite	353.2	0.054	mg/l		07/24/98	EDN
Sulfate	300.0	<1.00	mg/l		07/28/98	JPS
METALS						
Iron	200.7	1.42	mg/l	07/27/98	07/30/98	KCD
Lead	200.7	0.127	mg/l	07/27/98	07/30/98	KCD
VOLATILE ORGANICS					07/29/98	SAG
Benzene	8260A	38800	ug/l			
1,2-Dibromoethane (EDB)	8260A	605	ug/l			
Ethyl benzene	8260A	6840	ug/l			
Methyl tertiary butyl ether (MTBE)	8260A	62.2	ug/l			
Naphthalene	8260A	3520	ug/l			
Toluene	8260A	80900	ug/l			
Total Xylenes	8260A	28100	ug/l			

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CERTIFICATE OF ANALYSIS

SC DHEC No. 32010

NC DEHNR No. 329

Client: SRK
1941 Decker Blvd.
Columbia, SC 29206

Project Name: Southers Grocery

Attention: Larry Mattila

SHEALY Lab No: 142425R
Description: MW9

Coll. Date: 07/22/98
Coll. Time:

Date Received: 07/23/98
Date Reported: 08/04/98
Date Revised: 09/11/98

QA/QC Officer

V.P. Analytical

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
INORGANICS						
Nitrate + Nitrite	353.2	<0.020	mg/l		07/24/98	EDN
Sulfate	300.0	5.32	mg/l		07/28/98	JPS
METALS						
Iron	200.7	0.637	mg/l	07/27/98	08/03/98	FTS
Lead	200.7	<0.020	mg/l	07/27/98	08/03/98	FTS
VOLATILE ORGANICS					07/29/98	SAG
Benzene	8260A	22600	ug/l			
1,2-Dibromoethane (EDB)	8260A	1100	ug/l			
Ethyl benzene	8260A	2580	ug/l			
Methyl tertiary butyl ether (MTBE)	8260A	<5.0	ug/l			
Naphthalene	8260A	1150	ug/l			
Toluene	8260A	18800	ug/l			
Total Xylenes	8260A	13100	ug/l			

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CERTIFICATE OF ANALYSIS

SC DHEC No. 32010

NC DEHNR No. 329

Client: SRK
1941 Decker Blvd.
Columbia, SC 29206

Project Name: Southers Grocery

Attention: Larry Mattila

SHEALY Lab No: 142426R
Description: MW10

Coll. Date: 07/22/98
Coll. Time:

Date Received: 07/23/98
Date Reported: 08/04/98
Date Revised: 09/11/98

QA/QC Officer mar

V.P. Analytical MB

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
INORGANICS						
Nitrate + Nitrite	353.2	0.066	mg/l		07/24/98	EDN
Sulfate	300.0	2.54	mg/l		07/28/98	JPS
METALS						
Iron	200.7	1.90	mg/l	07/27/98	08/03/98	FTS
Lead	200.7	0.216	mg/l	07/27/98	08/03/98	FTS
VOLATILE ORGANICS					07/29/98	SAG
Benzene	8260A	35.6	ug/l			
1,2-Dibromoethane (EDB)	8260A	<5.0	ug/l			
Ethyl benzene	8260A	8.3	ug/l			
Methyl tertiary butyl ether (MTBE)	8260A	<5.0	ug/l			
Naphthalene	8260A	26.6	ug/l			
Toluene	8260A	58.9	ug/l			
Total Xylenes	8260A	<15.0	ug/l			

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CERTIFICATE OF ANALYSIS

SC DHEC No. 32010

NC DEHNR No. 329

Client: SRK
1941 Decker Blvd.
Columbia, SC 29206

Project Name: Southers Grocery

Attention: Larry Mattila

SHEALY Lab No: 142427R
Description: RW-1

Coll. Date: 07/22/98
Coll. Time:

Date Received: 07/23/98
Date Reported: 08/04/98
Date Revised: 09/11/98

QA/QC Officer _____

V.P. Analytical _____

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
INORGANICS						
Nitrate + Nitrite	353.2	<0.020	mg/l		07/24/98	EDN
Sulfate	300.0	3.02	mg/l		07/28/98	JPS
METALS						
Iron	200.7	0.190	mg/l	07/27/98	08/03/98	FTS
Lead	200.7	0.380	mg/l	07/27/98	08/03/98	FTS
VOLATILE ORGANICS					07/29/98	SAG
Benzene	8260A	33800	ug/l			
1,2-Dibromoethane (EDB)	8260A	178	ug/l			
Ethyl benzene	8260A	3880	ug/l			
Methyl tertiary butyl ether (MTBE)	8260A	<5.0	ug/l			
Naphthalene	8260A	527	ug/l			
Toluene	8260A	48900	ug/l			
Total Xylenes	8260A	15100	ug/l			

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CERTIFICATE OF ANALYSIS

SC DHEC No. 32010

NC DEHNR No. 329

Client: SRK
1941 Decker Blvd.
Columbia, SC 29206

Project Name: Southers Grocery

Attention: Larry Mattila

SHEALY Lab No: 142428R
Description: PW-1

Coll. Date: 07/22/98
Coll. Time:

Date Received: 07/23/98
Date Reported: 08/04/98
Date Revised: 09/11/98

QA/QC Officer mar

V.P. Analytical MA

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
INORGANICS						
Nitrate + Nitrite	353.2	<0.020	mg/l		07/24/98	EDN
Sulfate	300.0	<1.00	mg/l		07/28/98	JPS
METALS						
Iron	200.7	3.75	mg/l	07/27/98	08/03/98	FTS
Lead	200.7	<0.020	mg/l	07/27/98	08/03/98	FTS
VOLATILE ORGANICS					07/29/98	SAG
Benzene	8260A	1480	ug/l			
1,2-Dibromoethane (EDB)	8260A	<5.0	ug/l			
Ethyl benzene	8260A	8.5	ug/l			
Methyl tertiary butyl ether (MTBE)	8260A	<5.0	ug/l			
Naphthalene	8260A	<5.0	ug/l			
Toluene	8260A	7.7	ug/l			
Total Xylenes	8260A	58.1	ug/l			

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106 Vantage Pointe Drive
Cayce, South Carolina 29033
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

CHAIN OF CUSTODY # 21628.01 Southern Discovery

NPDES # _____
County _____
Receiving Stream _____
Outfall No. _____

CHAIN OF CUSTODY RECORD

SAMPLE ANALYSIS REQUIRED

Client Name: SRK Inc.
Reporting Address: 1941 Decker BLVD
Cola, S.C. 29206
Attention: Larry Mattila
Telephone No. 790-0602 P.O. No. _____

←PRESERVATION (CODE)
CODE: A = None
B = HNO3
C = H2SO4
D = NaOH
E = ICE
F = _____

LAB USE ONLY
Program Area (Circle)
DW CWA/NPDES
RCRA SP/SOL
SP/LIQ Other: _____

Sample ID (Location)	Yr. ____ DATE	TIME	WELL	SOLID	COMP	GRAB	# of containers	pH, Conductivity	BOD	Nutrients - Specify	METALS - Specify	TOC/TOX - Specify	BTEX	VOC - Specify Method required	Pesticides/PCBs - Specify	Herbicides	Total Phenol	Oil & Grease	BNAs	Solids - Specify	Cyanide	Coliform - Specify Type	Toxicity - Specify	REMARKS	SESI LAB I.D.
MW-1	Start / Finish 7/22		X				5																	BTEX, Naph, MTBE, EDB, Ferrous Iron, Sulfate Nitrite + Nitrate	
~~MW-2~~	Start / Finish						~~2~~																	~~BTEX, [redacted] MTBE, EDB~~	
MW-3	Start / Finish						5																	BTEX, Naph, MTBE, EDB Ferrous Iron, Sulfate, Nitrite + Nitrate	
MW-4	Start / Finish																								
MW-5	Start / Finish																								
MW-6	Start / Finish																								
MW-7	Start / Finish																								
MW-8	Start / Finish																								

SAMPLER	Date/Time	Received by (Sig.)	Date/Time	Hazards Associated with Sample	Custody Seal Intact (Circle) YES NO NONE
Print Name: Brad DeFee Signature: Brad DeFee	7/23				Receipt TRC _____ mg/l Receipt pH _____ su Receipt Temp. _____ °C
Relinquished by (Sig.) Allison Ackerns	7/23 1:37p	Received by (Sig.)			Received on Ice (Circle) YES NO ICE PACK
Relinquished by (Sig.)		Lab Receipt by (Sig.)			

White Copy: Sampler Yellow Copy: Shealy Pink Copy: Report

AMERICAN SYSTEMS, COLUMBIA, S.C.

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SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Pointe Drive
Cayce, South Carolina 29033
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

CHAIN OF CUSTODY RECORD

SAMPLE ANALYSIS REQUIRED

CHAIN OF CUSTODY #21628.01 Southern Discovery

Client Name SRK Inc.

Reporting Address 1941 Decker BLVD
Cola, S.C. 29206

Attention Larry Mattila

Telephone No. 790-0602 P.O. No.

NPDES #

County

Receiving Stream

Outfall No.

Sample ID (Location)	Yr. DATE	TIME	WELL	SOLID	COMP	GRAB	# of containers	pH, Conductivity	BOD	Nutrients - Specify	METALS - Specify	TOC/TOX - Specify	BTEX	VOC - Specify Method required	Pesticides/PCBs - Specify	Herbicides	Total Phenol	Oil & Grease	BNAs	Solids - Specify	Cyanide	Coliform - Specify type	Toxicity - Specify	←PRESERVATION (CODE)	LAB USE ONLY
MW-9	Start / Finish 7/22		X				5																	BTEX, Napth, MTBE, EDB, Nitrite + Nitrate, Sulfate, Ferrous Iron	
MW-10	Start / Finish																								
RW-1	Start / Finish																								
PW-1	Start / Finish																								
	Start / Finish																								
	Start / Finish																								
	Start / Finish																								
	Start / Finish																								

CODE: A = None
B = HNO3
C = H2SO4
D = NaOH
E = ICE
F = _____

REMARKS

Program Area (Circle)
DW CWA/NPDES
RCRA SP/SOL
SP/LIQ Other:_____

SESI LAB I.D.

SAMPLER	Date/Time	Received by (Sig.)	Date/Time	Hazards Associated with Sample	Custody Seal Intact (Circle) YES NO NONE
Print Name: Brad Offe Signature: Brad Offe	7/23				Receipt TRC_____mg/l Receipt pH_____su Receipt Temp._____°C
Relinquished by (Sig.) Allison Atton	Date/Time 7/23 1:37p	Received by (Sig.)	Date/Time		
Relinquished by (Sig.)	Date/Time	Lab Receipt by (Sig.)	Date/Time		Received on Ice (Circle) YES NO ICE PACK

White Copy: Sampler Yellow Copy: Shealy Pink Copy: Report

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FAX (803) 791-9111
www.shealyenvironmental.com

CERTIFICATE OF ANALYSIS

SC DHEC No. 32010

NC DEHNR No. 329

Client: NESCO
1941 Decker Blvd.
Columbia, SC 29206

Project Name: 21-31

Attention: Jeremy Grant

SHEALY Lab No: 145363
Description: MW-11

Coll. Date: 08/31/98
Coll. Time:

Date Received: 09/01/98
Date Reported: 09/11/98
Date Revised: 09/18/98

QA/QC Officer

V.P. Analytical

Revision was made for EDB addition.

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
METALS						
Lead	200.7	0.045	mg/l	09/03/98	09/04/98	FTS
VOLATILE ORGANICS					09/10/98	SAG
Benzene	8260B	<5.0	ug/l			
1,2-Dibromoethane (EDB)	8260B	<5.0	ug/l			
Ethyl benzene	8260B	1100	ug/l			
Methyl tertiary butyl ether (MTBE)	8260B	<5.0	ug/l			
Naphthalene	8260B	190	ug/l			
Toluene	8260B	49.7	ug/l			
Total Xylenes	8260B	4670	ug/l			
PAHS				09/03/98	09/04/98	JAF
Acenaphthene	8270C	<10.0	ug/l			
Acenaphthylene	8270C	<10.0	ug/l			
Anthracene	8270C	<10.0	ug/l			
Benzo(a)anthracene	8270C	<10.0	ug/l			
Benzo(b+k)fluoranthene	8270C	<20.0	ug/l			
Benzo(g,h,i)perylene	8270C	<10.0	ug/l			
Benzo(a)pyrene	8270C	<10.0	ug/l			
Chrysene	8270C	<10.0	ug/l			
Dibenzo(a,h)anthracene	8270C	<10.0	ug/l			
Fluoranthene	8270C	<10.0	ug/l			
Fluorene	8270C	<10.0	ug/l			
Indeno(1,2,3-c,d)pyrene	8270C	<10.0	ug/l			
Naphthalene	8270C	<10.0	ug/l			
Phenanthrene	8270C	<10.0	ug/l			
Pyrene	8270C	<10.0	ug/l			

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Scientists and Consultants

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FAX (803) 791-9111
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CERTIFICATE OF ANALYSIS

SC DHEC No. 32010

NC DEHNR No. 329

Client: NESCO
1941 Decker Blvd.
Columbia, SC 29206

Project Name: 21-31

Attention: Jeremy Grant

SHEALY Lab No: 145364
Description: MW-12

Coll. Date: 08/31/98
Coll. Time:

Date Received: 09/01/98
Date Reported: 09/10/98
Date Revised: 09/18/98

QA/QC Officer

V.P. Analytical

Revision was made for EDB addition.

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
METALS						
Lead	200.7	0.091	mg/l	09/03/98	09/04/98	FTS
VOLATILE ORGANICS					09/09/98	SAG
Benzene	8260B	<5.0	ug/l			
1,2-Dibromoethane (EDB)	8260B	<5.0	ug/l			
Ethyl benzene	8260B	<5.0	ug/l			
Methyl tertiary butyl ether (MTBE)	8260B	<5.0	ug/l			
Naphthalene	8260B	<5.0	ug/l			
Toluene	8260B	<5.0	ug/l			
Total Xylenes	8260B	<15.0	ug/l			
PAHS				09/03/98	09/04/98	JAF
Acenaphthene	8270C	<10.0	ug/l			
Acenaphthylene	8270C	<10.0	ug/l			
Anthracene	8270C	<10.0	ug/l			
Benzo(a)anthracene	8270C	<10.0	ug/l			
Benzo(b+k)fluoranthene	8270C	<20.0	ug/l			
Benzo(g,h,i)perylene	8270C	<10.0	ug/l			
Benzo(a)pyrene	8270C	<10.0	ug/l			
Chrysene	8270C	<10.0	ug/l			
Dibenzo(a,h)anthracene	8270C	<10.0	ug/l			
Fluoranthene	8270C	<10.0	ug/l			
Fluorene	8270C	<10.0	ug/l			
Indeno(1,2,3-c,d)pyrene	8270C	<10.0	ug/l			
Naphthalene	8270C	<10.0	ug/l			
Phenanthrene	8270C	<10.0	ug/l			
Pyrene	8270C	<10.0	ug/l			

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FAX (803) 791-9111
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CERTIFICATE OF ANALYSIS

SC DHEC No. 32010

NC DEHNR No. 329

Client: NESCO
1941 Decker Blvd.
Columbia, SC 29206

Project Name: 21-31

Attention: Jeremy Grant

SHEALY Lab No: 145365
Description: MW-13

Coll. Date: 08/31/98
Coll. Time:

Date Received: 09/01/98
Date Reported: 09/10/98
Date Revised: 09/18/98

QA/QC Officer

V.P. Analytical

Revision was made for EDB addition.

Parameters	Method	Result	Units	Date Prepared	Date Analyzed	Anal.
METALS						
Lead	200.7	0.404	mg/l	09/03/98	09/04/98	FTS
VOLATILE ORGANICS					09/09/98	SAG
Benzene	8260B	<5.0	ug/l			
1,2-Dibromoethane (EDB)	8260B	<5.0	ug/l			
Ethyl benzene	8260B	<5.0	ug/l			
Methyl tertiary butyl ether (MTBE)	8260B	<5.0	ug/l			
Naphthalene	8260B	<5.0	ug/l			
Toluene	8260B	<5.0	ug/l			
Total Xylenes	8260B	<15.0	ug/l			
PAHS				09/03/98	09/04/98	JAF
Acenaphthene	8270C	<10.0	ug/l			
Acenaphthylene	8270C	<10.0	ug/l			
Anthracene	8270C	<10.0	ug/l			
Benzo(a)anthracene	8270C	<10.0	ug/l			
Benzo(b+k)fluoranthene	8270C	<20.0	ug/l			
Benzo(g,h,i)perylene	8270C	<10.0	ug/l			
Benzo(a)pyrene	8270C	<10.0	ug/l			
Chrysene	8270C	<10.0	ug/l			
Dibenzo(a,h)anthracene	8270C	<10.0	ug/l			
Fluoranthene	8270C	<10.0	ug/l			
Fluorene	8270C	<10.0	ug/l			
Indeno(1,2,3-c,d)pyrene	8270C	<10.0	ug/l			
Naphthalene	8270C	<10.0	ug/l			
Phenanthrene	8270C	<10.0	ug/l			
Pyrene	8270C	<10.0	ug/l			

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106 Vantage Pointe Drive
Cayce, South Carolina 29033
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

CHAIN OF CUSTODY RECORD

SAMPLE ANALYSIS REQUIRED

Page ____ of ____

CHAIN OF CUSTODY # 21 - 51

Client Name: NKSC

Reporting Address: 1411 DECKER BLVD
COLA SC 29206

Attention: JEREMY GRANT

Telephone No.: (803) 736-6120 P.O. No. ____

NPDES # ____

County ____

Receiving Stream ____

Outfall No. ____

←PRESERVATION (CODE)
CODE: A = None
B = HNO3
C = H2SO4
D = NaOH
E = ICE
F = HCl

LAB USE ONLY
Program Area (Circle)
DW CWA/NPDES
RCRA SP/SOL
SP/LIQ Other: ____

Sample ID (Location)	Yr. DATE	TIME	WELL	SOLID	COMP	GRAB	# of containers	pH, Conductivity	BOD	Nutrients - Specify	METALS - Specify Pb	TOC/TOX - Specify	BTEX + MTBE	VOC - Specify Method required	Pesticides/PCBs - Specify	Herbicides	Total Phenol	Oil & Grease	BNAs	Solids - Specify	Cyanide	Coliform - Specify type	Toxicity - Specify	PAHs			REMARKS	SESI LAB I.D.
MW 11	Start 8/31 Finish						4				✓		✓											✓				145363
MW 12	Start 8/31 Finish						4				✓		✓											✓				145364
MW 13	Start 8/31 Finish						4				✓		✓											✓				145365
	Start Finish																											
	Start Finish																											
	Start Finish																											
	Start Finish																											
	Start Finish																											

SAMPLER	Date/Time	Received by (Sig.)	Date/Time	Hazards Associated with Sample	Custody Seal Intact (Circle) YES NO NONE
Print Name: Jeremy Grant Signature: [signature]	[illegible]	[signature]	[illegible]		Receipt TRC ____ mg/l Receipt pH ____ su Receipt Temp. ____ °C
Relinquished by (Sig.)	Date/Time	Received by (Sig.)	Date/Time		Received on Ice (Circle) YES NO ICE PACK
Relinquished by (Sig.) [signature]	[illegible]	Lab Receipt by (Sig.) [signature]	[illegible] 12/15		

White Copy: Sampler Yellow Copy: Shealy Pink Copy: Report

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APPENDIX B

MONITOR WELL CONSTRUCTION DIAGRAMS

MW10 — 17'
MW11 — 30'
MW12 — 28'
MW13 — 16'
9'

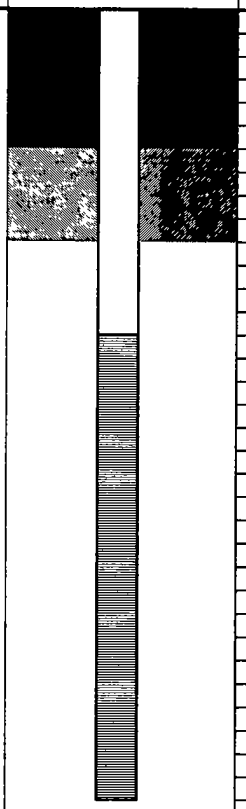
LOG OF BORING: MW-10

NESCO
For Practical Solutions.

Site Name:	George Souther's Grocery	Drilling/Boring Method:	Hollow Stem Auger (3 1/4" ID)	Total Boring Depth (ft):	17
Project Number:	21-31	Sampling Method:	Grab	Measuring Point Elev. (relative):	89.99
Location:	Campobello, S.C.	Subcontractor/Drillers:	Atlantic Boring	Latitude	35° 03' 49"
Date/Time Started:	7/22/98	S.C. Driller	Larry Mattila SC#1363	Longitude	81° 11' 00"
Date/Time Completed:	7/22/98	Monitoring Equipment:	PID	Geologist/Engineer:	Brad Defee

ft -bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)
			N/A		Grass **Sandy silt. Some clay.** (residuum) Brownish red.
2					
4		2.4			**Sandy silt. Some clay.** Yellowish orange. No petroleum odor.
6					
8					
10		2.7			No petroleum odor.
12					
14		2.3			Total Depth - No petroleum odor.
16					
18					
20					
22					

Construction



COMMENTS:

NOTES:
in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

LOG OF BORING: MW-11

NESCO
For Practical Solutions.

Site Name:	George Souther's Grocery	Drilling/Boring Method:	Hollow Stem Auger (3 1/4" ID)	Total Boring Depth (ft):	30
Project Number:	21-31	Sampling Method:	Grab	Measuring Point Elev. (relative):	96.81
Location:	Campobello, S.C.	Subcontractor/Drillers:	Atlantic Boring	Latitude	35° 03' 49"
Date/Time Started:	8/18/98	S.C. Driller	Larry Mattila SC#1363	Longitude	81° 11' 00"
Date/Time Completed:	8/18/98	Monitoring Equipment:	PID	Geologist/Engineer:	Larry Mattila

ft-bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)
			N/A		Grass **Fill.**
2					
4		2.6			No petroleum odor.
6		53			Slight petroleum odor.
8					
10		11.8			**Clayey silt.** Redish brown. No petroleum odor.
12					
14		3.2			No petroleum odor.
16					
18					**Clayey silt. Some sand.**
20		2.4			No petroleum odor
22					

Construction

COMMENTS:

NOTES:
in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

LOG OF BORING: MW-11

NESCO
For Practical Solutions.

Site Name:	George Souther's Grocery	Drilling/Boring Method:	Hollow Stem Auger (3 1/4" ID)	Total Boring Depth (ft):	30
Project Number:	21-31	Sampling Method:	Grab	Measuring Point Elev. (relative):	96.81
Location:	Campobello, S.C.	Subcontractor/Drillers:	Atlantic Boring	Latitude	35° 03' 49"
Date/Time Started:	8/18/98	S.C. Driller	Larry Mattila SC#1363	Longitude	81° 11' 00"
Date/Time Completed:	8/18/98	Monitoring Equipment:	PID	Geologist/Engineer:	Larry Mattila

ft -bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)	Construction	ft-bgs
					(Saturated)		
24		15.8					24
26							26
28							28
30		12.8			Total Depth		30
32							32
34							34
36							36
38							38
40							40
42							42
44							44

COMMENTS:

NOTES:
in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

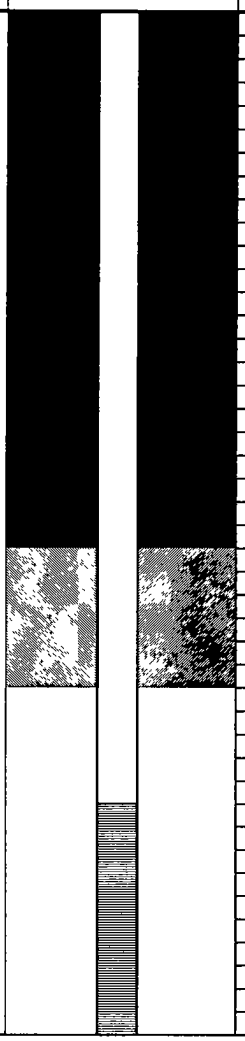
LOG OF BORING: MW-12

NESCO
For Practical Solutions.

Site Name:	George Souther's Grocery	Drilling/Boring Method:	Hollow Stem Auger (3 1/4" ID)	Total Boring Depth (ft):	28
Project Number:	21-31	Sampling Method:	Grab	Measuring Point Elev. (relative):	
Location:	Campobello, S.C.	Subcontractor/Drillers:	Atlantic Boring	Latitude	35° 03' 49"
Date/Time Started:	8/18/98	S.C. Driller	Larry Mattila SC#1363	Longitude	81° 11' 00"
Date/Time Completed:	8/18/98	Monitoring Equipment:	PID	Geologist/Engineer:	Larry Mattila

ft -bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)
			N/A		Grass **Clayey silt.** (residuum) Reddish brown.
2					
4		2.6			No petroleum odor.
6					**Clayey silt. Some fine sand.** Medium yellowish orange.
8					
10		2.8			No petroleum odor.
12					
14		2.7			No petroleum odor.
16					
18					
20		2.4			**Clayey silt. Some fine to coarse sand.** Medium yellowish orange. No petroleum odor.
22					

Construction



COMMENTS:

NOTES:
in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

LOG OF BORING: MW-12

NESCO
For Practical Solutions.

Site Name:	George Souther's Grocery	Drilling/Boring Method:	Hollow Stem Auger (3 1/4" ID)	Total Boring Depth (ft):	28
Project Number:	21-31	Sampling Method:	Grab	Measuring Point Elev. (relative):	
Location:	Campobello, S.C.	Subcontractor/Drillers:	Atlantic Boring	Latitude	35° 03' 49"
Date/Time Started:	8/18/98	S.C. Driller	Larry Mattila SC#1363	Longitude	81° 11' 00"
Date/Time Completed:	8/18/98	Monitoring Equipment:	PID	Geologist/Engineer:	Larry Mattila

ft -bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)			Construction	ft-bgs
					(Saturated)				
24									24
		15.8							
26									26
28									28
		12.8			Total Depth				
30									30
32									32
34									34
36									36
38									38
40									40
42									42
44									44

COMMENTS:

NOTES:
in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

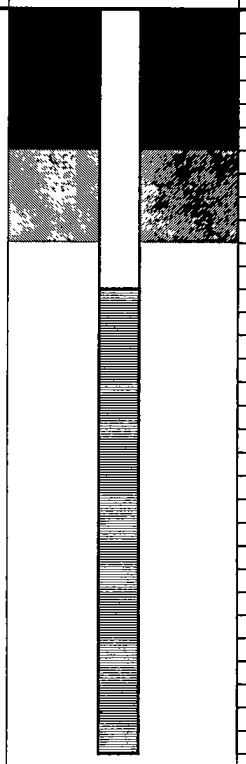
LOG OF BORING: MW-13

NESCO
For Practical Solutions.

Site Name:	George Souther's Grocery	Drilling/Boring Method:	Hollow Stem Auger (3 1/4" ID)	Total Boring Depth (ft):	16
Project Number:	21-31	Sampling Method:	Grab	Measuring Point Elev. (relative):	89.36
Location:	Campobello, S.C.	Subcontractor/Drillers:	Atlantic Boring	Latitude	35° 03' 49"
Date/Time Started:	8/19/98	S.C. Driller	Larry Mattila SC#1363	Longitude	81° 11' 00"
Date/Time Completed:	8/19/98	Monitoring Equipment:	PID	Geologist/Engineer:	Larry Mattila

ft.-bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)
			N/A		Grass **Sandy silt. Some clay.** (residuum) Brownish red.
2					
4		2.3			**Sandy silt. Some clay.** Yellowish orange. No petroleum odor.
6					
8					
10		2.5			No petroleum odor.
12					
14		2.6			Total Depth - No petroleum odor.
16					
18					
20					
22					

Construction



COMMENTS:

NOTES:
in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

APPENDIX C

BORING LOGS

NESCO
For Practical Solutions.

LOG OF BORING: B-1

Site Name:	George Souther's Grocery	Drilling/Boring Method:	Hollow Stem Auger (3 1/4" ID)	Total Boring Depth (ft):	15
Project Number:	21-31	Sampling Method:	Grab	Measuring Point Elev. (relative):	
Location:	Campobello, S.C.	Subcontractor/Drillers:	Atlantic Boring	Latitude	35° 03' 49"
Date/Time Started:	8/18/98	S.C. Driller	Larry Mattila SC#1363	Longitude	81° 11' 00"
Date/Time Completed:	8/18/98	Monitoring Equipment:	PID	Geologist/Engineer:	Larry Mattila

ft-bgs	Sample No.	OVA (ppm)	Blows/ft-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)	Construction	ft-bgs
			N/A		Grass Clayey silt. (Fill)		
2							2
4		2.3			No petroleum odor.		4
6							6
8							8
10		12.8			Clayey silt. Reddish brown. Slight petroleum odor.		10
		<1000			Orange with mica. Strong petroleum odor (possible product)		
12							12
					Brown.		
14		<1000			Total Depth - Strong petroleum odor		14
16							16
18							18
20							20
22							22

COMMENTS:

Properly abandoned with bentonite after field screening was completed

NOTES:

in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

LOG OF BORING: B-2

NESCO
For Practical Solutions.

Site Name:	George Souther's Grocery	Drilling/Boring Method:	Hollow Stem Auger (3 1/4" ID)	Total Boring Depth (ft):	15
Project Number:	21-31	Sampling Method:	Grab	Measuring Point Elev. (relative):	
Location:	Campobello, S.C.	Subcontractor/Drillers:	Atlantic Boring	Latitude	35° 03' 49"
Date/Time Started:	8/18/98	S.C. Driller	Larry Mattila SC#1363	Longitude	81° 11' 00"
Date/Time Completed:	8/18/98	Monitoring Equipment:	PID	Geologist/Engineer:	Larry Mattila

ft-bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)	Construction	ft-bgs
			N/A		Grass Clayey silt. Reddish orange and silver brown. (Fill)		
2							2
4		2.3			No petroleum odor.		4
6		492			Moderate petroleum odor		6
8							8
10		516			Total Depth		10
12							12
14							14
16							16
18							18
20							20
22							22

COMMENTS:

Properly abandoned with bentonite after field screening was completed

NOTES:

in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

APPENDIX D

GRAIN SIZE DISTRIBUTION DATA

GRAIN SIZE DISTRIBUTION TEST DATA

Date: 9/17/98
Project No.: 21-31
Project: SUPERB-SOUTHERS GROCERY

Sample Data

Location of Sample: MW-12 AT 28'
Sample Description: REDDISH BROWN SILTY SAND
USCS Class: SM Liquid limit:
AASHTO Class: A-4(0.0) Plasticity index:

Notes

Remarks: Sample taken from MW-12 AT 28 FT.

Fig. No.:

Mechanical Analysis Data

	Initial	After wash
Dry sample and tare=	139.50	79.00
Tare =	0.00	0.00
Dry sample weight =	139.50	79.00

Minus #200 from wash= 43.4 %
Tare for cumulative weight retained= 0

Sieve	Cumul. Wt. retained	Percent finer
# 4	0.90	99.4
# 10	5.50	96.1
# 16	10.50	92.5
# 30	19.80	85.8
# 40	26.00	81.4
# 50	33.90	75.7
# 60	39.40	71.8
# 100	57.80	58.6
# 200	77.70	44.3

Hydrometer Analysis Data

Separation sieve is number 4
Percent -# 4 based on complete sample= 99.4
Weight of hydrometer sample: 110
Calculated biased weight= 110.71
Automatic temperature correction
Composite correction at 20 deg C = 5.5

Meniscus correction only= 0.5
Specific gravity of solids= 2.65

Test No.: 15

Specific gravity correction factor= 1.000
Hydrometer type: 152H Effective depth L= 16.294964 - 0.164 x Rm

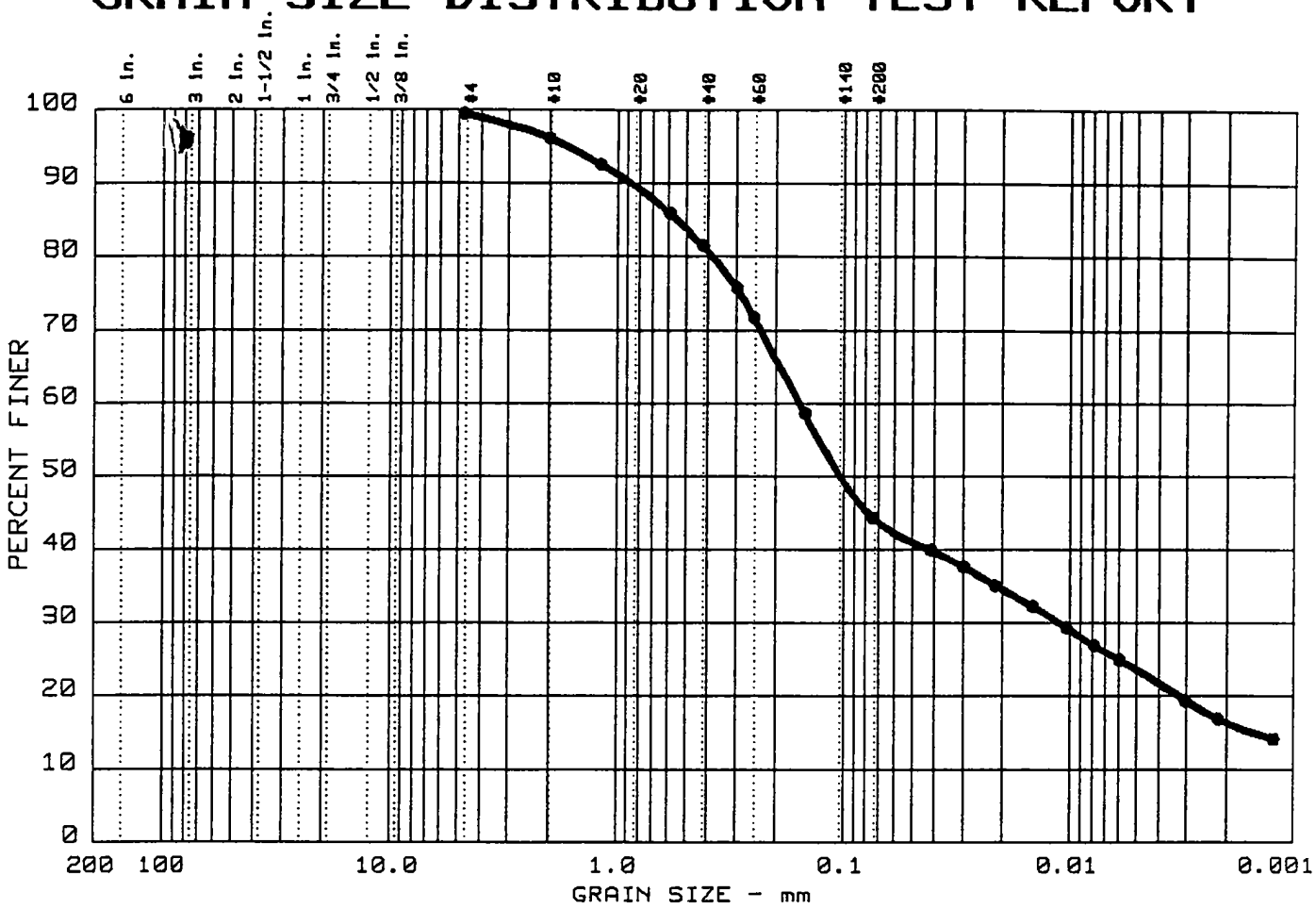
Elapsed time, min	Temp, deg C	Actual reading	Corrected reading	K	Rm	Eff. depth	Diameter mm	Percent finer
1.0	23.0	38.0	44.2	0.0132	38.5	10.0	0.0416	39.9
2.0	23.0	35.5	41.7	0.0132	36.0	10.4	0.0300	37.6
4.0	23.0	32.7	38.9	0.0132	33.2	10.9	0.0217	35.1
9.0	23.0	29.5	35.7	0.0132	30.0	11.4	0.0148	32.2
19.0	23.0	26.3	32.5	0.0132	26.8	11.9	0.0104	29.3
35.0	23.0	23.5	29.7	0.0132	24.0	12.4	0.0078	26.8
61.0	23.0	21.4	27.6	0.0132	21.9	12.7	0.0060	24.9
255.0	23.0	15.3	21.5	0.0132	15.8	13.7	0.0030	19.4
506.0	24.0	12.2	18.7	0.0130	12.7	14.2	0.0022	16.8
1620.0	25.0	8.9	15.7	0.0128	9.4	14.8	0.0012	14.2

Fractional Components

Gravel/Sand based on #4 sieve
Sand/Fines based on #200 sieve
% + 3 in. = 0.0 % GRAVEL = 0.6 % SAND = 55.1
% FINES = 44.3

D85= 0.55 D60= 0.157 D50= 0.102
D30= 0.0112 D15= 0.00151

GRAIN SIZE DISTRIBUTION TEST REPORT



	% +3"	% GRAVEL	% SAND	% FINES
●	0.0	0.6	55.1	44.3

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
●			0.55	0.16	0.10	0.011	0.0015			

MATERIAL DESCRIPTION	USCS	AASHTO
● REDDISH BROWN SILTY SAND	SM	A-4(0.0)

Project No.: 21-31
Project: SUPERB-SOUTHERS GROCERY
● Location: MW-12 AT 28'

Date: 9/17/98

Remarks:
Sample taken from
MW-12 AT 28 FT.

GRAIN SIZE DISTRIBUTION TEST REPORT
STEFFEN ROBERTSON AND KIRSTEN (U.S.) INC.
Consulting Engineers and Scientists

Figure No. _____

Midlands
Environmental
Consultants, Inc.

April 2, 2008

RECEIVED
APR 04 2008
UNDERGROUND STORAGE
TANK PROGRAM

Ms. Susan Block, P.G., Hydrogeologist
Northeastern SC Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Subject: Aggressive Fluid Vapor Recovery Report
George Souther's Grocery
Campobello, South Carolina
SCDHEC Site ID # 08650; CA #31550
MECI Project Number 07-1511C

Dear Ms. Block,

Midlands Environmental Consultants, Inc. (MECI) is pleased to submit the attached Aggressive Fluid Vapor Recovery Report for the referenced site. This describes the aggressive fluid vapor recovery activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines.

AGGRESSIVE FLUID VAPOR RECOVERY

MECI personnel conducted an Aggressive Fluid Vapor Recovery (AFVR) event at Newberry County Maintenance Facility on March 29, 2008. The event was conducted on monitoring well MW-29 to reduce dissolved CoC concentrations. Free phase petroleum product was not detected in monitoring well MW-29 prior to the AFVR event. The event was conducted continuously for eight hours. The event was conducted by MECI personnel utilizing a MECI vacuum extraction unit. Free phase petroleum product was not detected in the well immediately following the event.

MECI treated the off gas produced during the AFVR event using an activated carbon filter system. Calculated total petroleum hydrocarbons removed from the wells were 3.03 pounds or approximately 0.52 equivalent gallons. The average rate of removal for the hydrocarbons was calculated to be 0.38 pounds per hour. Concentrations of off gas produced during the event were recorded from 302 parts per million by volume (PPM) to 348 PPM. Measurements were obtained from vapors prior to entering off gas treatment. Vacuum readings were recorded at 17.0 inches of mercury throughout the event. A complete compilation of measurements recorded is presented in attached Table 1C.

UST PROGRAM
DOCKETING # 117

Post Office Box 854, Lexington SC 29071 • 235-B Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

Differential pressures and groundwater levels were measured and recorded for selected site monitoring wells at regular intervals. This data is summarized in the attached Table 2C. Monitoring well locations are depicted on attached Figure 1.

A total of 0 gallons of liquids were removed from MW-29 during this event. Free phase petroleum product was not observed in the holding tank at the end of the event. The fluids produced were transported to Crandall Corporation of Lexington, S.C. for disposal. A disposal manifest for these fluids is attached at the end of this report.

QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assignment are consistent with those normally employed in enhanced fluid recovery events and waste management projects of this type. Contents of this report are intended for the use by MECI and the South Carolina Department of Health and Environmental Control, under mutually agreed upon terms and conditions. If other parties wish to rely on this report please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

Midlands Environmental appreciates the opportunity to offer our professional environmental related services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.

Brendon P. Kelly
Staff Scientist

William C. McClary P.G.
Senior Geologist

Attachments:

TABLE 1C
AFVR MONITORING DATA
GEORGE SOUTHER'S GROCERY
CAMPOBELLO, SOUTH CAROLINA
MECI PROJECT NUMBER 07-1511C
SCDHEC SITE ID NUMBER 08650

Extraction Well	Date	Time (hh:mm)	Differential Time (hr)	Extraction Well Head Vacuum (in. Hg)	Off Gas Measurements: Concentration (PPM)	Offgas Velocity Ft/Min	Flow Rate CFM	Removal Rate Lbs/Hr	Interval Removal Lbs
MW-29	03/19/08	10:45	0.50	17.0	348	1030	92.70	0.39	0.19
	03/19/08	11:15	0.50	17.0	311	1110	99.90	0.37	0.19
	03/19/08	11:45	0.50	17.0	310	980	88.20	0.33	0.16
	03/19/08	12:15	0.50	17.0	310	1090	98.10	0.36	0.18
	03/19/08	12:45	0.50	17.0	304	1080	97.20	0.35	0.18
	03/19/08	13:15	0.50	17.0	305	1030	92.70	0.34	0.17
	03/19/08	13:45	0.50	17.0	304	1020	91.80	0.33	0.17
	03/19/08	14:15	0.50	17.0	310	1000	90.00	0.33	0.17
	03/19/08	14:45	0.50	17.0	309	1000	90.00	0.33	0.17
	03/19/08	15:15	0.50	17.0	302	980	88.20	0.32	0.16
	03/19/08	15:45	0.50	17.0	311	1030	92.70	0.35	0.17
	03/19/08	16:15	0.50	17.0	312	1040	93.60	0.35	0.18
	03/19/08	16:45	0.50	17.0	322	1020	91.80	0.35	0.18
	03/19/08	17:15	0.50	17.0	332	1060	95.40	0.38	0.19
	03/19/08	17:45	0.50	17.0	335	1030	92.70	0.37	0.19
	03/19/08	18:15	0.50	17.0	338	1030	92.70	0.38	0.19
	03/19/08	18:45	0.50	17.0	342	1110	99.90	0.41	0.20
									TOTAL 3.03

Well Data: Well No.	Diameter (in)	Total Depth (ft)	Pre AFVR Event: Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Post AFVR Event: Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Corrected Depth to Water Change (ft)
MW-29	2"	35	***	25.02	***	***	22.68	***	-2.34

Vacuum Truck Information		Well ID	Stinger Depth
Subcontrator:	MECI	MW-29	20.00
Truck Operator:	B. Kelly		
Stack I.D. (feet)	0.33 feet		

Recovery / Disposal Information		
Hydro carbons Removed (vapor):	3.03	Pounds
Hydro carbons Removed (liquid):	0	Gallons
Total Hydrocarbons Removed:	0.52	Equivalent Gallons
Molecular Weight Utilized:	75	g / mole
Disposal Facility	Crandall Corporation	
Total Liquids Removed:	0	Gallons

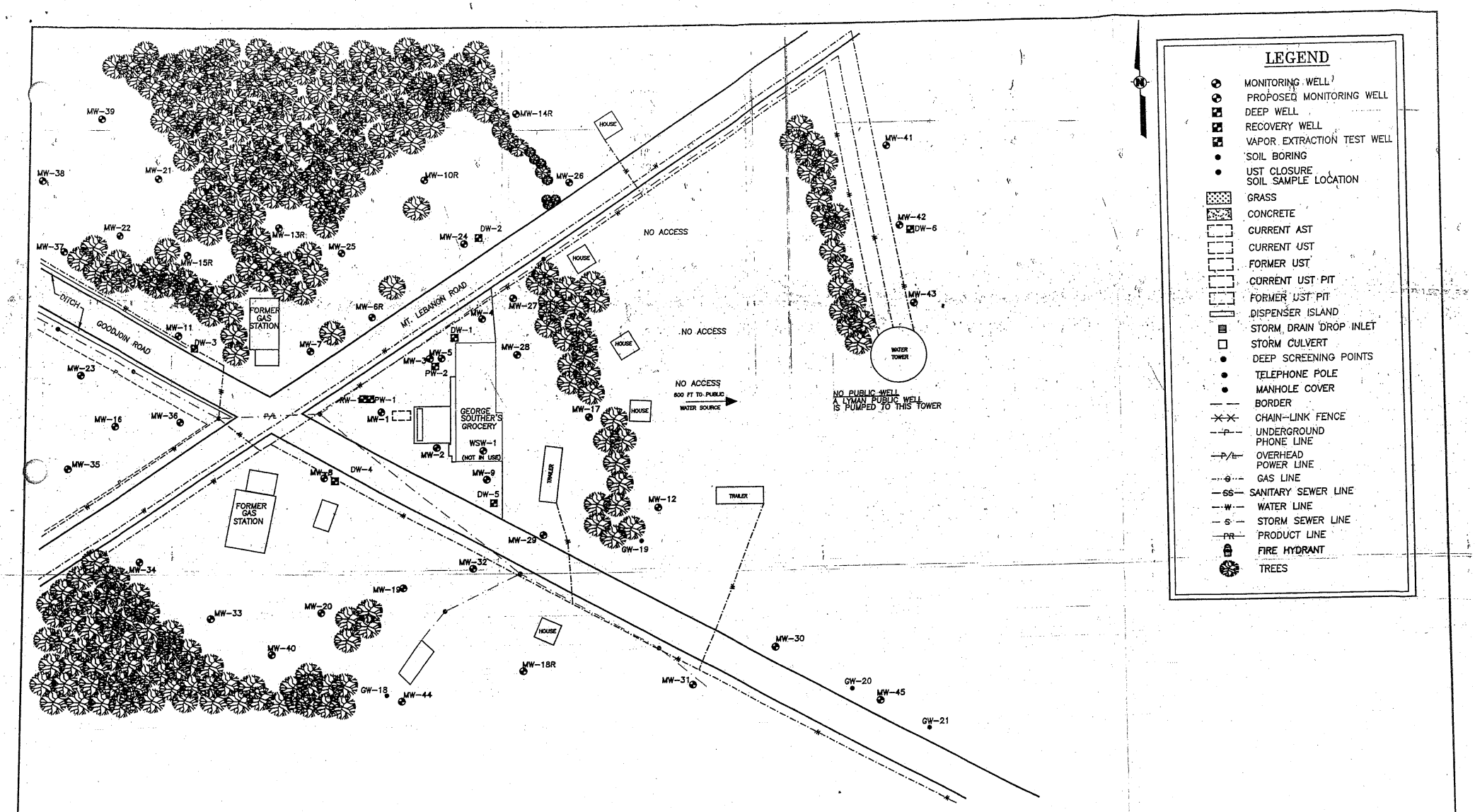
TABLE 2C
DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
GEORGE SOUTHER'S GROCERY
CAMPOBELLO, SOUTH CAROLINA
MECI PROJECT NUMBER 07-1511C
SCDHEC SITE ID NUMBER 08650

DIFFERENTIAL PRESSURE DATA

		Well Designation:		
		MW-9	**MW-32**	**DW-5**
Nearest Extraction Well:		MW-29	MW-29	MW-29
Approximate Distance:		96 ft	80 ft.	56 ft
Time	**Elapsed Time**	**Differential Pressure Readings (inches of water)**		
10:45	0.0	0	0	0
11:15	0.5	0	0	0
11:45	1.0	0	0	0
12:15	1.5	0	0	0
12:45	2.0	0	0	0
13:15	2.5	0	0	0
13:45	3.0	0	0	0
14:15	3.5	0	0	0
14:45	4.0	0	0	0
15:15	4.5	0	0	0
15:45	5.0	0	0	0
16:15	5.5	0	0	0
16:45	6.0	0	0	0
17:15	6.5	0	0	0
17:45	7.0	0	0	0
18:15	7.5	0	0	0
18:45	8.0	0	0	0
Maximum Change:		**0**	**0**	**0**

GROUNDWATER DRAWDOWN DATA

		Well Designation:		
		MW-9	**MW-32**	**DW-5**
Nearest Extraction Well:		MW-29	MW-29	MW-29
Approximate Distance:		96 ft	80 ft.	56 ft
Time	**Elapsed Time**	**Depth to Liquid (feet below of casing):**		
Prior toAFVR		23.68	26.07	23.70
14:45	4 hours	23.68	26.07	23.70
18:45	8 hours	23.68	26.22	23.70
Maximum Change:		0.00	-0.15	0.00



CAD FILE: REC 05-02-015ste.dwg

CONSULTECH ENVIRONMENTAL, INC. Environmental Consulting and Engineering © 1999 Delivering innovative solutions to today's environmental concerns	DRAWN: N.C.L.	DATE: 04/28/06
	UST#: 08650	
	PROJECT: GEORGE SOUTHER'S GROCERY	
	PROJECT No.: 05-02-015	
	LOCATION: CAMPOBELLO, SOUTH CAROLINA	

FIGURE 2
SITE PLAN MAP

C 127992

Crandall

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No. 20683	2. Page 1 of 1

3. Generator's Name and Mailing Address Midlands Environmental
1144 Old Two Notch
Lexington, SC 29073
4. Generator's Phone (803) 808-2043

5. Transporter 1 Company Name: Crandall Corporation
6. US EPA ID Number: SCD981864499
A. Transporter's Phone: (803) 791-4800

7. Transporter 2 Company Name
8. US EPA ID Number
B. Transporter's Phone

9. Designated Facility Name and Site Address
Crandall Corporation
100 Rich-Lex Drive
Lexington, SC 29072
10. US EPA ID Number: SCD981864499
C. Facility's Phone: (803) 791-4800

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non - Hazardous Waste, Waste Water	01	TT	3120	G
b.				
c. •Costal mart 105 (11776) (240gal) •Pelzer Gas mart (00480) (600gal) •Horton's Grocery A (06768) (50gal) •Hughes well drilling (00358) (170gal) •Durhams Grocery (06699) (190gal) •Macks Camp (01253) (75gal)				
d. •Kinas Texaco (04783) (200gal) •George Southers (08650) (0 gals) •Fmr Action Chevy (02970) (75gal) •Southerfield used (14212) (130gal) •Brown Brothers Gulf (04145) (300gal) •Smith's Service Station (15774) (40gal)				

D. Additional Descriptions for Materials Listed Above
•George Southers D (08650) (250gal)
•Newberry Airport B (15590) (110gal)
•Rockland Parking Lot B (15475) (120gal)
•Mathenys (00820) (300gal)

FIELD SERVICE

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
•Burrows Service Center (12481) (325gal) •Bay Creek Villas C (18662) (200gal)
Service Call ID: GLB0120683
•Allendale maint. fac. (00316) (125gal) •Fmr Fast Fare (18131) (100gal)
•Pantry 640 (07435) (280gal) •Avants (02578) (100gal)
Emergency Response: Infotrac - 800-535-5053 •Handy Pantry 89 (04733) (100gal)
Caller must ID Crandall as registrant
•Weathers Service A (03073) (90gal) •Weather Service B (03073) 70gal

16. 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.
Printed/Typed Name | Signature | Month Day Year: 03 31 08

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Shawn DeSpain | Signature | Month Day Year: 03 31 08

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.
Printed/Typed Name | Signature | Month Day Year

GENERATOR
TRANSPORTER
FACILITY

GENERATOR COPY

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

MR GEORGE SOUTHER
280 GOODJOIN RD
CAMPOBELLO SC 29322

APR 11 2008

Re: **AFVR Report Review**
George Souther's Grocery, 280 Goodjoin Rd., Campobello, SC
UST Permit # 08650; Release reported December 31, 1991
AFVR Reports received April 4, 2008
Spartanburg County

Dear Mr. Souther:

On March 20, 2008, an Aggressive Fluid Vapor Recovery (AFVR) event took place at the referenced facility on wells RW-1 and MW-5. After completion of the event, no free product was present in RW-1 or MW-5. On March 29, 2008, an Aggressive Fluid Vapor Recovery (AFVR) event took place at the referenced facility on well MW-29. After completion of the event, no free product was present. Copies of both reports are enclosed. Per your signed permission form, the Underground Storage Tank (UST) Program will continue to coordinate rehabilitation activities on your behalf. Future monitoring reports will be forwarded to you once they have been reviewed.

Please feel free to contact me by phone at (803) 896-4078, fax at (803) 896-6245 or email at jaspermj@dhec.sc.gov if you have any questions or need additional information.

Sincerely,

Mike Jaspers, Hydrogeologist
Northeastern SC Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management

enc: AFVR Reports

cc: Technical File (w/out enc)

MJJ/3.12.08

TIER II ASSESSMENT REPORT

George Souther's Grocery
UST Permit #08650, CA 21963
Campobello, Spartanburg County, South Carolina

Prepared for:

South Carolina Department of Health
And Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

RECEIVED
DEC 30 2005
UNDERGROUND STORAGE
TANK PROGRAM

Prepared by:

Consultech Environmental, Inc.
1800 Macleod Dr. Suite F
Lawrenceville, Georgia 30043

Consultech Project No. C-05-02-015

December 2005

UST PROGRAM
DOCKETING # Ctech

RECEIVED

DEC 3 0 2005

UNDERGROUND STORAGE
TANK PROGRAM

TIER II ASSESSMENT CERTIFICATION

Tier II Assessment Report (Tier II) Certification

I hereby certify that the information contained in this plan and the associated attachments is true, accurate, and complete, and the plan satisfies all the criteria and requirements of the tier II assessment guidelines dated March 15, 2000.

Drew Miller (Consultech Environmental, Inc.)
Staff Scientist

12/23/05
Date

I hereby certify that I have directed the fieldwork and preparation of this plan in accordance with State Rules and Regulations. As a registered geologist, I certify that I am a qualified groundwater professional, as defined by the South Carolina Board of Registration for Geologists. All of the information and laboratory data in this plan and in all of the attachments is true, accurate, complete, and in accordance with applicable State Rules and Regulations.

James R Wilson, P.G. (Consultech Environmental, Inc.)
Senior Project Manager

12/23/05
Date

JAMES R. WILSON
REGISTERED
NO. 2062
SOUTH CAROLINA
PROFESSIONAL GEOLOGIST

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1.0 PROJECT BACKGROUND INFORMATION

This section presents the purpose of the Tier II Assessment Report (Tier II), a description of the site, and the site assessment history.

1.1 Purpose

The purpose of a Tier II assessment is to provide the South Carolina Department of Health and Environmental Control (SCDHEC) with sufficient information to determine if the petroleum release reported in the Tier II Assessment conducted for the George Souther's Grocery poses a potential risk to human health or to the environment. The Tier II from the site indicated that a release of petroleum hydrocarbon constituents had migrated downgradient and this Tier II Addendum was to delineate the plume in all directions. This Tier II specifically provides information outlined in the scope of work as defined in the SCDHEC Tier II Assessment Plan (Tier II) guidance document, dated March 15, 2000. Please reference Consultech's Standard Operating Procedures document, dated December 2004. This report presents the extent of petroleum hydrocarbons released to the environment and an evaluation of the risk of exposure to potential receptors, and also provides a plan that adequately protects human health, safety, and the environment.

1.2 Site Description

The subject property, George Souther's Grocery is located at 280 Goodjoin Road in Campobello, South Carolina (Figure 1). Figure 2 indicates the general location of the former USTs and dispensers.

1.3 Site Assessment History

George Souther's Grocery had a release reported to SCDHEC on December 31, 1991 and confirmed March 23, 1992. Three 3,000-gallon gasoline USTs, one 4,000-gallon gasoline UST, one 3,000-gallon diesel UST, and one 550-gallon kerosene UST along with the associated piping and dispensers, were removed from the site on December 20, 1991. The site currently has one 10,000-gallon gasoline UST, one 6,000-gallon gasoline UST, one 2,000-gallon diesel UST, and one 2,000-gallon kerosene UST in operation in the area of the former USTs. The Tier II Assessment was performed by NESCO in 2002 and sampled again in 2003. Analytical results indicated that the groundwater at the site had been impacted by a petroleum hydrocarbons release. The Tier II from the site indicated that a release of petroleum hydrocarbon constituents had migrated downgradient and this Tier II Addendum was to delineate the plume in all directions.

2.0 POTENTIAL RECEPTOR SURVEY

The receptor survey included a private and public groundwater supply well search, a surface water body search in the area of the site, an underground utility survey, and a discussion of current and future uses of the site and downgradient properties.

2.1 Location of Drinking Water Supplies

Consultech conducted a water systems survey in the vicinity of the site. Consultech personnel found one water well that exist within a 1,000-foot radius of the subject site. A well is located under the main building at the George Souther's site but is no longer used. This well was formerly used to wash vehicles. All businesses and residences in the area are on city water. The water tower that is 600 feet east of the site is supplied by water well in Lyman, SC.

2.2 Location of Surface Water Bodies

There is one surface water body within a 1,000-foot radius of the subject site. The nearest surface water body is a tributary to Motlow Creek located 250 feet to the northeast of the site.

2.3 Underground Utility Survey

Subsurface utilities in the site area include water, telephone, and septic lines, as shown on Figure 2. Locations and estimated depths of these utilities were obtained during the site investigations. Water lines run on the south side of Mt. Lebanon and Goodjoin Road and on the north side of these roads west of the intersection in the easement. Telephone lines run on the south side of Goodjoin Road and on the north side of Mt. Lebanon Road west of the intersection in the easement. Septic systems are behind all residences and businesses in the area. Depths for these utilities are estimated to be two to five feet below the ground surface. No other underground utilities were located or scanned with a PID.

Electrical lines exist above ground level on utility poles that are located all around the property as shown in Figure 2. Groundwater in the site area occurs at depths ranging from 3 to 38 ft-bgs. Therefore, underground utilities could not be acting as conduits for groundwater flow except for the area north of Goodjoin and Lebanon Roads where groundwater is less than 15 ft-bgs.

2.4 Current and Future Uses of the Site and Downgradient Properties

The George Souther's Grocery is currently Briar Patch Grocery that dispenses gas. The former gas station on the north side of the intersection is currently abandoned and has not been used for some time. The former gas station on the south side of the intersection is currently a restaurant owned by Becky Arms and has not been used for some time. The other properties surrounding the sites are residential in nature. Figure 2 illustrates the locations of the adjacent properties with respect to the subject site. The site is bordered to the north, east, and south by woods and residential properties. The two former gas stations are to the west of the site. Future uses of the surrounding properties will likely remain the same.

3.0 HYDROGEOLOGY AND GEOLOGY

3.1 Regional Geology and Hydrogeology

Spartanburg County is located within the Southern Piedmont Physiographic Province, which consists of rocks southeast of the Brevard fault zone. The Piedmont is characterized by rolling upland topography broken by stream valleys and high prominent hills. The rocks of the area are composed of Pre-Cambrian igneous and metamorphic rocks, which have undergone extensive alteration through multiple events of folding and faulting. Biotite gneiss, mica schist, amphibolite, and hornblende gneisses underlie the major part of the area and form the host rock in which granite has been intruded locally (McConnell and Abrams, 1984).

Soils in the province are composed of detrital materials as well as saprolite. Saprolite is best described as a soft, earthy, decomposed rock formed in place by the chemical weathering of igneous and metamorphic rocks. Groundwater supplies are obtained predominately from dug wells in rural areas, deriving water from saprolite and residual material overlying the bedrock. Municipal and industrial supplies in urban areas are derived through deep bedrock wells.

3.2 Site Hydrogeology

For this site, a benchmark was established with an assumed elevation of 102.77 feet above the National Geodetic Vertical Datum (NGVD) on top of a bolt on a pole 360 feet northwest of the intersection of Mt. Lebanon and Goodjoin Roads. Groundwater elevations were initially measured on August 31, 2005 in monitoring wells MW-1 through MW-5, MW-7 through MW-9, MW-11 through MW-12, MW-16 through MW-17, MW-19 through MW-25, PW-1, and PW-2 before screening the site. Groundwater elevations were measured on December 12 through 14, 2005 in monitoring wells MW-1 through MW-5, MW-6R, MW-7 through MW-9, MW-10R, MW-11, MW-12, MW-13R through MW-15R, MW-16, MW-17, MW-18R, MW-19 through MW-43, DW-1 through DW-6, PW-1, PW-2, and RW-1 in order to determine static water levels, to establish the groundwater gradient, and to check for liquid phased hydrocarbons (LPH). The groundwater elevations in the on-site shallow monitoring wells ranged from 86.89 feet in MW-11 to 66.12 feet in MW-43, with respect to a relative datum elevation of 102.77 feet. LPH was detected in monitoring well MW-5 at a thickness of 0.33 feet, MW-8 at a thickness of 0.26 feet, and a sheen in MW-7 and MW-11. A summary of the measurement data collected from the monitoring wells is presented on Table 1.

3.3 Site Geology

The subsoil in this area is predominantly brown to red silty sand to sandy clay alternating from the ground surface to a depth of 20 to 30 ft-bgs which is underlain by red to brown sand to the top of basement rock which ranges from 12 to 78 ft-bgs as noted by the Tier II investigations and the new wells for the Tier II Addendum (Appendix 3). Soil boring/monitoring well installation lithological data indicated that soil types and depths appear to be predominantly uniform across the site. Groundwater levels in the sand range from 3 to 38 ft-bgs.

3.4 Site Topography

Topographic relief within a quarter mile radius of the subject property, as evidenced by the U.S.G.S. 7.5-minute quadrangle topographic map for the area (Campobello, South Carolina, Figure 3), ranges between 1049 and 1108 feet above the NGVD. The subject properties have an elevation of 1080 feet above the NGVD. The general direction of surface water drainage in the site vicinity of the former George Souther's Grocery appears to be to the east towards the water tower. The nearest surface water body is a tributary to Motlow Creek located 250 feet to the northeast of the site. A Site Topographic Map with potential receptors is presented as Figure 3.

4.0 INVESTIGATIVE METHODS AND SAMPLING

4.1 Field Screening

The soil borings were scanned with a calibrated PID meter and collected on four-foot intervals to approximate depths of 40 ft-bgs for shallow borings to 62 ft-bgs for deep borings. Detectable PID readings were indicated in all of the soil borings. PID field screening results for the soil and groundwater are presented in Table 2, and a groundwater PID field-screening map is provided as Figure 4.

4.2 Soil Boring/Monitoring Well Installation

Soil samples were described on the basis of lithology, color, texture, and relative moisture content. The shallow monitoring wells installed were two-inch PVC wells. Monitoring wells MW-6R, MW-10R, MW-13R through MW-15R, MW-26, MW-27, and MW-37 through MW-39 were installed at 17 ft-bgs. Monitoring wells MW-18R, and MW-29 through MW-32 were installed at 30 ft-bgs. Monitoring well MW-35 was installed at 28 ft-bgs. Monitoring well MW-28 and MW-36 were installed at 25 ft-bgs. Monitoring wells MW-33, MW-34, and MW-40 through MW-43 were installed at 40 ft-bgs. Fifteen feet of 0.010-inch slotted well screen was used in construction of the shallow monitoring wells. Six deep wells were installed for this investigation. Deep well DW-1 was installed between MW-4 and MW-5 with five-inch casing at 78 feet on top of rock and the two-inch casing at 85 feet. The two-inch screen was set from 85 to 90 feet. Deep well DW-2 was drilled beside MW-24 and DW-6 was drilled beside MW-42. These two deep wells have five-inch casing at 65 feet and the two-inch casing at 70 feet. The two-inch screen was set from 70 to 75 feet. Deep well DW-3 was paired with monitoring well MW-11. The five-inch casing of DW-3 was advanced to 53 ft-bgs on top of rock. A boring was then advanced through the inside of the five-inch well casing to a depth of 65 ft-bgs. Screen was set from 60 to 65 ft-bgs. Deep well DW-4 was paired with MW-8. The five-inch casing of DW-4 was advanced to 52 ft-bgs on top of rock, and the two-inch screen was set from 62 to 67 ft-bgs. Deep well DW-5 was paired with MW-9 since there was no room by MW-29. The five-inch casing of DW-5 was advanced to 52 ft-bgs on top of rock, and the two-inch screen was set from 70 to 75 ft-bgs. The well construction diagrams are included with the soil boring logs in Appendix 3.

4.3 Soil Sampling

Soil samples were collected from the original Tier II investigation conducted in August 2002. Soil analytical data is presented in Table 3. The soil cuttings generated during all of Consultech's drilling activities were scanned with a calibrated PID and placed in 55-gallon drums. The soil cuttings were then disposed of accordingly.

4.4 Groundwater Sampling

Groundwater samples were initially collected from soil borings GW-1 through GW-17 for screening purposes and the first seven samples were put on normal turn around time and the last ten were rush analyzed for BTEX, naphthalenes, and MTBE. Groundwater samples were collected from monitoring wells MW-1 through MW-5, MW-6R, MW-7 through MW-9, MW-10R, MW-11, MW-12, MW-13R through MW-15R, MW-16, MW-17, MW-18R, MW-19 through MW-43, DW-1 through DW-6, PW-1, PW-2, and RW-1 and were analyzed for BTEX, naphthalenes, MTBE, EDB, 1,2 DCA, 8-Oxygenates, and total lead. In addition, monitoring wells MW-6R, MW-10R, MW-13R through MW-15R, MW-26 through MW-43, and DW-1 through DW-6 were analyzed for dissolved iron, nitrate, sulfate, and methane. Monitoring wells MW-2 and MW-34 could not be sampled due to being dry. The laboratory reports are presented in Tables 5, 6, & 7 and Appendix 5.

5.0 PHYSICAL AQUIFER CHARACTERISTICS

5.1 Hydraulic Conductivity Tests

Consultech did not conduct in-situ horizontal hydraulic conductivity tests in any monitoring wells since they were conducted in the original Tier II in August 2002.

5.2 Direction and Rate of Groundwater Flow

Groundwater depths measured in August 2002, July 2003, and August and December 2005 and their corresponding elevations are presented on Table 1. All wells were gauged for the presence of LPH using an oil/water interface probe. On December 12, 2005, LPH was detected in monitoring wells MW-5 at a thickness of 0.33 feet, MW-8 at a thickness of 0.26 feet, and a sheen in MW-7 and MW-11.

The groundwater elevations taken on December 12-14, 2005 are illustrated on Figure 5 for the shallow wells. These figures indicate that the groundwater flow direction is to the east towards the water tower. Based on the groundwater elevations in the wells and the distances between them, the average hydraulic gradient (referenced as "i") is estimated to be 0.030 feet per foot (ft/ft) across the site between monitoring wells MW-7 and MW-43 for the shallow groundwater.

6.0 HORIZONTAL AND VERTICAL EXTENT OF PETROLEUM HYDROCARBONS

6.1 Extent of Petroleum Contamination in Soil

This was determined in the Tier II Assessment Report by NESCO in August of 2002.

6.2 Extent of Petroleum Contamination in Groundwater

On November 18-23 and December 6-14, 2005, groundwater samples were collected from monitoring wells MW-1 through MW-5, MW-6R, MW-7 through MW-9, MW-10R, MW-11, MW-12, MW-13R through MW-15R, MW-16, MW-17, MW-18R, MW-19 through MW-43, DW-1 through DW-6, PW-1, PW-2, and RW-1.

Table 5 presents the historical analytical results for BTEX, MTBE, and naphthalenes in groundwater on the site. Figure 8 presents the lateral distribution of dissolved benzene in groundwater across the site on November 18-23 and December 6-14, 2005. Benzene was detected in groundwater above the RBSL of 5.0 µg/l in monitoring wells MW-1, MW-3 through MW-5, MW-6R, MW-7 through MW-9, MW-11, MW-15, MW-17, MW-19, MW-28, MW-29, MW-32, MW-36, MW-40, RW-1, and DW-1 through DW-5.

Toluene was detected in groundwater above the RBSL of 1,000 µg/l in monitoring wells MW-1, MW-3, MW-5, MW-7, MW-8, MW-9, MW-28, MW-29, MW-32, MW-36, RW-1 and DW-4. Ethylbenzene was detected in groundwater above the RBSL of 700 µg/l in monitoring wells MW-1, MW-3, MW-5, MW-7, MW-8, MW-9, MW-28, MW-29, MW-32, MW-36, RW-1, and DW-4. Xylenes were detected above the RBSL of 10,000 ug/l in monitoring wells MW-1, MW-3, MW-5, MW-7, MW-8, MW-28, MW-29, MW-32, and RW-1.

MTBE (Figure 9) was detected in groundwater above the RBSL of 40 monitoring wells MW-1, MW-5, MW-7 through MW-9, MW-11, MW-28, MW-32, MW-36, and RW-1. Naphthalenes (Figure 10) were detected in groundwater above the RBSL of 25 µg/l in monitoring wells MW-1, MW-3, MW-5, MW-6R, MW-7, MW-8, MW-9, MW-11, MW-28, MW-29, MW-32, MW-36, RW-1, DW-1, DW-2, DW-4, and DW-5.

Table 6 presents other petroleum hydrocarbons constituents and natural attenuation parameters that were measured during the April 19-21, 2005 sampling event. The following indicates RBSLs exceeded due to the release on the subject site. EDB (Figure 11) was detected in groundwater above the RBSL of 0.05 µg/l in monitoring wells MW-1, MW-3, MW-5, MW-6R, MW-7, MW-8, MW-9, MW-36, MW-17, MW-29, MW-30, MW-32, MW-40, DW-1, DW-2, DW-4, DW-5, and PW-2. Total lead was detected in groundwater above the RBSL of 0.015 µg/l in monitoring wells MW-1, MW-3, MW-5, MW-8, MW-11, MW-14R, MW-15R, MW-23, MW-29 through 32, MW-36 through MW-38, MW-40, PW-1, and RW-1. Table 7 presents the groundwater analytical results from the individual Oxygenates.

The George Souther's Grocery petroleum hydrocarbon plume has migrated approximately 300 feet southeast of the former tank pit area. The edge of the hydrocarbon plume is currently downgradient of monitoring well MW-29 for the shallow plume and deep well DW-5 for the deep plume.

Natural attenuation parameters will be discussed in Section 8.2.

6.3 Extent of LPH Plume

On August 30, 2002, LPH was detected in monitoring wells MW-2, MW-5, and MW-11, and RW-1 at thickness of 0.10, 0.21, 0.77 and 0.49 feet, respectively. On July 17, 2003, LPH was detected in monitoring wells MW-8, and MW-11 at thickness of 0.28, 0.25 feet, respectively. On August 31, 2005, LPH was detected in monitoring wells MW-5, MW-7, and MW-11 at thickness of 0.21, 0.01, and 0.06 feet, respectively. An LPH recovery test was conducted on December 14, 2005 and indicated a true thickness of 0.25 feet of LPH in monitoring well MW-5, and a true thickness of 0.24 feet of LPH in monitoring well MW-8. Monitoring wells MW-7 and MW-11 contained only a sheen on December 14, 2005. The product recovery test data and results are presented in Appendix 4.

7.0 GROUNDWATER MODELING

7.1 Domenico's Model

The Domenico's Model was utilized to determine site-specific target levels (SSTLs) for the source area. The SSTLs were calculated in the two previous Tier II investigations and can be reviewed in those reports.

7.2 Fate and Transport Modeling

The fate and transport modeling were conducted in the two previous Tier II investigations and can be reviewed in those reports and SCDHEC will conduct more fate and transport modeling using the new slug test data from this investigation.

8.0 TIER II SITE EVALUATION

8.1 Site Conceptual Model and Exposure Points

A site conceptual exposure model was completed for the sites during the last tier II investigation and will be conducted by SCDHEC for this investigation.

8.2 Site Specific Point of Compliance

There are two primary exposure points for the George Souther's Grocery. Water supply well WSW-1 and an unnamed tributary of Motlow creek, located 250 feet to the northeast, are considered the primary exposure points for George Souther's Grocery. Currently water supply well WSW-1 is no longer used, but has yet to be plugged and abandoned. Groundwater in the site area occurs at depths ranging from 3 to 38 ft-bgs. Therefore, underground utilities could not be acting as conduits for groundwater flow except for the area north of Goodjoin and Lebanon Roads where groundwater is less than 15 ft-bgs.

Two points of compliance will be established for the petroleum hydrocarbon plume. Consultech recommends that monitoring wells MW-26 and MW-14R be established as the points of compliance between George Souther's Grocery and the unnamed tributary of Motlow creek located 250 feet to the northeast. Also, WSW-1 is not currently in use, and Consultech recommends that water supply well WSW-1 be permanently plugged and abandoned.

8.3 Natural Attenuation Parameters Evaluation

Between the dates of November 18, and December 14, 2005, dissolved oxygen concentrations measured ranged from 0.9 milligrams per liter (mg/l) in monitoring well MW-7 to 4.3 mg/l in monitoring well MW-19. Dissolved oxygen in distilled water was 7.6 mg/l. Comparison of Tables 4 and 5 shows that areas with deleted dissolved oxygen concentrations coincide with areas of elevated petroleum hydrocarbons concentrations, and high dissolved oxygen concentrations coincide with areas of low to nonexistent petroleum hydrocarbons concentrations. This is an indication that petroleum hydrocarbons beneath the site are being biodegraded by aerobic respiration.

Nitrate was present in 17 of 52 wells, with detectable concentrations ranging from 0.25 mg/l in MW-39 to 4.1 mg/l in MW-28. Therefore, nitrate is occurring naturally. Areas of depleted nitrate do not correlate with areas of elevated BTEX concentrations; therefore, there is no evidence that petroleum hydrocarbons beneath the site are being biodegraded through denitrification.

Ferrous iron was present in 10 of 52 monitoring wells. Detectable concentrations were less than 13 mg/l, indicating that dissolved iron is naturally occurring at low levels. Measured ferrous iron (Fe^{+2}) concentrations range from 0.11 mg/l in MW-38 to 2.01 mg/l in MW-32. Areas of elevated BTEX concentrations do not coincide with most areas of elevated ferrous iron (Fe^{+2}) concentrations. This suggests that ferric iron (Fe^{+3}) oxides are not being reduced to ferrous iron (Fe^{+2}) during biodegradation of petroleum hydrocarbons.

Sulfate was present in 18 of 52 wells, with detectable concentrations ranging from 1.6 mg/l in monitoring well MW-39 to 130 mg/l in monitoring well DW-2. The concentrations of sulfate are not consistently low in areas with elevated BTEX concentrations; therefore, there are no solid indications that anaerobic biodegradation of petroleum hydrocarbons is occurring by sulfate reduction.

8.4 Calculation of Site Specific Target Levels

SSTL Models were calculated in previous Tier II investigation and can be reviewed in those reports.

8.5 RBCA Site Classification

Based on the SCDHEC document "Risk Based Corrective Action for Petroleum Releases" dated May 15, 2001, Appendix A – RBCA Site Priority Classification System, Consultech classifies this release as a 3b. This site is classified as a 3b because free product exists in a monitoring well at a measured thickness greater than 0.01 feet. Also, ground water is encountered less than 15 feet below grade and the site is predominantly sand.

9.0 RECOMMENDATIONS

The George Souther's Grocery petroleum hydrocarbon plume has migrated approximately 300 feet southeast of the former tank pit area. The edge of the hydrocarbon plume is currently downgradient of monitoring well MW-29 for the shallow plume and deep well DW-5 for the deep plume.

Two points of compliance will be established for the petroleum hydrocarbon plume. Consultech recommends that monitoring wells MW-26 and MW-14R be established as the points of compliance between George Souther's Grocery and the unnamed tributary of Motlow creek located 250 feet to the northeast. Although DW-2 has not been delineated vertically, the groundwater is moving to the southeast and away from the tributary. Also, WSW-1 is not currently in use and Consultech recommends that water supply well WSW-1 be permanently plugged and abandoned.

Based on our Tier II Site Evaluation, corrective action appears to be necessary at the subject site. The Domenico's Model should be rerun on current concentrations to determine site-specific target levels (SSTLs) for the source area. The SSTLs were calculated in the previous Tier II investigation and can be reviewed in that report. In addition, monitoring wells MW-5, and MW-8 should have the LPH reduced to less than 0.01 feet of thickness in each well.

10.0 REFERENCES

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TABLES

TABLE 1
Well Construction Details and Groundwater Elevation Data (ft)
George Souther's Grocery
Campobello, SC - USTs #08650

Monitoring Well	Date	Depth of Screen Below Ground Surface	TOC Elevation	Depth to Product from TOC	Depth to Water from TOC	Groundwater Elevation
MW-1	08/30/02	7.0-17.0	96.50		dry	not applicable
	07/17/03		96.50		10.98	85.52
	08/31/05		96.50		12.02	84.48
	12/12/05		97.56		14.58	82.98
MW-2	08/30/02	7.0-17.0	99.98	17.35	17.45	82.53
	07/17/03		99.98		15.08	84.90
	08/31/05		99.98		16.00	83.98
	12/12/05		99.82		dry	dry
MW-3	08/30/02	9.0-19.0	97.02		dry	dry
	07/17/03		97.02		12.09	84.93
	08/31/05		97.02		13.02	84.00
	12/12/05		97.11		15.65	81.49
MW-4	08/30/02	9.0-19.0	91.37		17.71	73.66
	07/17/03		91.37		6.74	84.63
	08/31/05		91.37		8.28	83.09
	12/12/05		91.48		10.61	80.87
MW-5	08/30/02	9.5-19.5	93.54	18.8	19.01	74.53
	07/17/03		93.54		9.09	84.45
	08/31/05		93.54	9.79	10.00	83.54
	12/12/05		97.69	11.9	12.23	85.46
MW-6	08/30/02	9.0-19.0	92.1	16.82	16.64	75.46
	07/17/03		92.1	not located	not located	not located
	08/31/05		92.1	not located	not located	not located
MW-6R	12/13/05	5.0-20.0	91.98		11.18	80.80
MW-7	08/30/02	9.0-19.0	95.4	dry	dry	dry
	07/17/03		95.4		9.85	85.55
	08/31/05		95.4	10.86	10.87	84.53
	12/14/05		100.07	sheen	13.40	86.67
MW-8	08/30/02	8.0-18.0	99.71	dry	dry	dry
	07/17/03		99.71	13.62	13.90	85.81
	08/31/05		99.71		14.94	84.77
	12/12/05		99.76	17.6	17.86	81.90
MW-9	08/30/02	14.0-24.0	100.00	dry	dry	dry
	07/17/03		100.00		15.59	84.41
	08/31/05		100.00		16.36	83.64
	12/12/05		99.82		19.03	80.79

Monitoring Well	Date	Depth of Screen Below Ground Surface	TOC Elevation	Depth to Product from TOC	Depth to Water from TOC	Groundwater Elevation
MW-10	08/30/02	7.0-17.0	89.99		15.65	74.34
	07/17/03		89.99		3.68	86.31
	08/31/05		89.99	not located	not located	not located
MW-10R	12/12/05	2.0-17.0	89.88		5.45	84.43
MW-11	08/30/02	13-23	96.81	21.38	22.15	75.20
	07/17/03		96.81	9.75	10.00	86.81
	08/31/05		96.81	11.55	11.61	85.20
	12/12/05		101.58	sheen	14.69	86.89
MW-12	08/30/02	15.0-25.0	94.64		23.27	71.37
	07/17/03		94.64		11.77	82.87
	08/31/05		94.64		12.83	81.81
	12/13/05		95.31		15.93	79.38
MW-13	08/30/02	5.0-15.0	89.36	dry	dry	dry
	07/17/03		89.36		4.13	85.23
	08/31/05		89.36	not located	not located	not located
MW-13R	12/12/05	2.0-17.0	93.29		9.82	83.47
MW-14	08/30/02	10.0-25.0	86.13		13.53	72.60
	07/17/03		86.13		3.75	82.38
	08/31/05		86.13	not located	not located	not located
MW-14R	12/13/05	2.0-17.0	85.39		3.21	82.18
MW-15	08/30/02	10.0-25.0	87.34		12.68	74.66
	07/17/03		87.34		2.74	84.60
	08/31/05		87.34	not located	not located	not located
MW-15R	12/14/05	2.0-17.0	91.30		7.70	83.60
MW-16	08/30/02	15.0-35.0	98.91		23.88	75.03
	07/17/03		98.91		12.22	86.69
	08/31/05		98.91		13.70	85.21
	12/12/05		99.09		16.67	82.42
MW-17	08/30/02	15.0-35.0	94.55		21.30	73.25
	07/17/03		94.55		9.80	84.75
	08/31/05		94.55		11.77	82.78
	12/12/05		100.26		13.16	87.10
MW-18	08/30/02	15.0-35.0	101.00		29.62	71.38
	07/17/03		101.00		18.37	82.63
	08/31/05		101.00	not located	not located	not located
MW-18R	12/12/05	15.0-30	107.22		26.89	80.33
MW-19	08/30/02	20.0-40.0	104.73		31.10	73.63
	07/17/03		104.73		19.22	85.51
	08/31/05		104.73		20.72	84.01
	12/12/05		104.69		23.27	81.42
MW-20	08/30/02	16.0-36.0	106.90		32.96	73.94
	07/17/03		106.90		20.95	85.95
	08/31/05		106.90		22.74	84.16
	12/12/05		107.20		25.29	81.91

Monitoring Well	Date	Depth of Screen Below Ground Surface	TOC Elevation	Depth to Product from TOC	Depth to Water from TOC	Groundwater Elevation
MW-21	07/17/03	5.0-20.0	89.39		4.76	84.63
	08/31/05		89.39		6.01	83.38
	12/12/05		88.91		6.26	82.65
MW-22	07/17/03	5.0-20.0	93.05		6.60	86.45
	08/31/05		93.05		8.24	84.81
	12/12/05		93.34		8.37	84.97
MW-23	07/17/03	8.0-23.0	99.43		12.69	86.74
	08/31/05		99.43		14.13	85.30
	12/12/05		100.07		16.70	83.37
MW-24	07/17/03	5.0-20.0	89.60		5.74	83.86
	08/31/05		89.60		7.45	82.15
	12/12/05		92.02		7.03	84.99
MW-25	07/17/03	5.0-20.0	90.59		5.37	85.22
	08/31/05		90.59		8.30	82.29
	12/12/05		92.81		7.99	84.82
MW-26	12/13/05	2.0-17.0	89.42		7.54	81.88
MW-27	12/13/05	2.0-17.0	91.8		11.24	80.56
MW-28	12/13/05	10.0-25.0	93.1		12.61	80.49
MW-29	12/13/05	15.0-30.0	99.81		21.34	78.47
MW-30	12/13/05	15.0-30.0	103.5		26.40	77.10
MW-31	12/13/05	15.0-30.0	101.05		23.01	78.04
MW-32	12/13/05	15.0-30.0	101.72		21.34	80.38
MW-33	12/13/05	25.0-40.0	109.05		34.72	74.33
MW-34	12/13/05	25.0-40.0	106.31		dry	dry
MW-35	12/13/05	15.0-30.0	105.02		21.04	83.98
MW-36	12/13/05	10.0-25.0	98.99		15.65	83.34
MW-37	12/14/05	2.0-17.0	98.21		14.50	83.71
~~MW-38~~	~~12/14/05~~	~~2.0-17.0~~	~~99.6~~		~~16.51~~	~~83.09~~
MW-39	12/14/05	2.0-17.0	94.98		12.06	82.92
MW-40	12/14/05	25.0-40.0	110.46		34.80	75.66
MW-41	12/14/05	25.0-40.0	102.02		34.80	67.22
MW-42	12/14/05	25.0-40.0	101.91		34.41	67.50
MW-43	12/14/05	25.0-40.0	93.34		27.22	66.12
DW-1	12/14/05	85.0-90.0	92.89		20.21	72.68
DW-2	12/14/05	70.0-75.0	91.95		13.03	78.92
DW-3	12/14/05	60.0-65.0	101.41		22.64	78.77
DW-4	12/14/05	62.0-67.0	99.8		32.12	67.68
DW-5	12/14/05	70.0-75.0	98.64		28.41	70.23
DW-6	12/14/05	70.0-75.0	101.86		43.52	58.34

Monitoring Well	Date	Depth of Screen Below Ground Surface	TOC Elevation	Depth to Product from TOC	Depth to Water from TOC	Groundwater Elevation
RW-1	08/30/02	15.0-30.0	96.29	20.61	25.10	71.19
	07/17/03		96.29		10.81	85.48
	12/12/05		96.62		14.97	81.65
PW-1	08/30/02	45.0-47.0	97.96		21.93	76.03
	07/17/03		97.96		10.63	87.33
	08/31/05		97.96		11.86	86.10
	12/12/05		96.59		14.78	81.81
PW-2	08/30/02	70.0-75.0	97.59		23.45	74.14
	07/17/03		97.59		12.84	84.75
	08/31/05		97.59		14.69	82.90
	12/12/05		97.77		16.16	81.61

Table 2
PID Field Readings
George Souther's Grocery
Campobello, SC - USTs #08650

Sample	Date	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	Water Sample PID	Total Depth
SB-1	08/30/05	102.0	107.0	222.0	891.0	691.0												891	20'
SB-2	08/30/05	0.5	0.6	2.9	10.7	15.8	8.1											8	24'
SB-3	08/31/05	0.7	0.6	0.4	4	5.1	2.6											3.1	24'
SB-4	08/31/05	0.7	0.7	1.1	1.2	0.5												refusal	20'
SB-5	08/31/05	0.5	0.6	0.9	1.1	0.9												refusal	18'
SB-6	08/31/05	0.7	0.9	0.8	1.2	0.7												refusal	19'
SB-7	08/31/05	1.1	1.1	0.9	1	1												refusal	18'
SB-8	08/31/05	0.7	3.2	107.0	498.0	313.0												498.0	20'
SB-9	08/31/05	0.5	0.5	56.8	58.2	112.0												58.2	20'
SB-10	08/31/05	0.8	0.7	1.4	4.3	3.7	1.9											4.3	22'
SB-11	08/31/05	158.0	239.0	47.4	149.0	101												149	20'
SB-12	08/31/05	1.2	3.4	15.8	21.7	1.1	19.9											1.1	24'
SB-13	08/31/05	1.6	2.1	6.4	6.6	3.1	1.9											3.1	24'
SB-14	08/31/05	0.9	0.7	1.8	1.2	2.0												1.6	20'
SB-15	08/31/05	0.7	0.9	1.4	1.8	2.6												1.9	20'
SB-16	08/31/05	1.1	0.9	1.3	1.4	2.2												1.9	20'
SB-17	09/01/05	1.1	2.4	3.8	12.4	21.5												12.4	20'
SB-18	09/01/05	0.9	2.8	3.4	5.4	6.1												5.4	20'
SB-19	09/01/05	0.3	1.8	5.7														1.8	12'
SB-20	09/01/05	0.7	1.4	1.9														1.4	12'
SB-21	09/01/05	0.9	1.1	2.8														1.1	12'
SB-22	09/01/05	1.8	2.4	16.2	19.7													16.2	16'
SB-23	09/01/05	1.4	3.8	5.1	6.1													5.1	12'
SB-24	09/01/05	1.7	2.5	2.4	4.1													2	16'
SB-25	10/20/05	0.4	0.5	365.0	138.0	12	18	7.4	4.1	4.4	3.8							365	54'
SB-26	10/20/05	70.2	395.0	899	364	222	727	198.0	14.8	12.6	6.7							363.0	49'
SB-27	10/20/05	1.3	12.5	24.3	87.3	218.0	557	152	21.8	5.3	4.9	4.9						87	58'
SB-28	10/20/05	1.8	5.4	9.3	14.6	11.3												9	25'
SB-29	10/20/05	2.3	1.7	3.4	4.2	1.9												3	25'
SB-30	10/20/05	9.4	18.4	211.0	145.0	38.7												211	25'
SB-31	10/20/05	2.3	1.9	10.3	6.5	3.1												10.3	25'
SB-32	10/20/05	2.1	2.4	1.7	3.1	2.6												1.7	25'
SB-33	10/21/05	3.5	7.3	142.0	27.9													142	20'
SB-34	10/21/05	3.9	148.0	537.0	241.0													537	20'
SB-35	10/21/05	44.5	657.0	918.0	747.0	59	22	169	16	9	7	6						657	51'
SB-36	10/25/05	4.2	298.0	467.0	55.6	142.0	19.0	4.6	4.9	4.6	6.1	3.7	4.1	3.8				298.0	62'
SB-37	10/25/05	2.5	4.1	2.3														4.1	15'
SB-38	10/25/05	2.1	2.5	2.3														2.5	15'
SB-39	10/25/05	1.9	2.8	2.5														2.8	15'
SB-40	10/25/05	2.0	2.3	2.3														2.3	15'
SB-41	10/25/05	3.1	12.7	4.9														12.7	15'
SB-42	10/25/05	1.9	3.1	2.7														3	15'
SB-43	10/31/05	1.6	2.4	2.4	2.8	2.6	1.8	2.1										2	35'
SB-44	10/31/05	3.0	3.3	3.7	4.0	3.4	3.3	3.1										3.1	35'
SB-45	10/31/05	2.8	2.9	3.4	2.7	3.4	3.3	3.1										3.1	35'
GW-01	09/01/05																	18'	20
GW-02	09/01/05																	26'	30'

Sample	Date	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	Water Sample PID	Total Depth
GW-03	09/01/05																	20'	24'
GW-04	09/02/05																	12'	16'
GW-05	09/02/05																	23'	27'
GW-06	09/02/05																	14'	18'
GW-07	09/02/05																	14'	18'
GW-08	10/20/05																	20'	24'
GW-09	10/20/05																	20'	24'
GW-10	10/20/05																	24'	28'
GW-11	10/21/05																	24'	28'
GW-12	10/21/05																	12'	17'
GW-13	10/21/05																	11'	15'
GW-14	10/21/05																	11'	15'
GW-15	10/21/05																	11'	15'
GW-16	10/31/05																	39'	39'
GW-17	10/31/05																	39'	39'

WS borings are direct-push groundwater samples only

Table 3
BTEX and PNA Analytical Results (ug/kg)
George Souther's Grocery
Campobello, SC - UST #08650

Sample	Date	Benzene	Toluene	Ethylbenzene	Xylenes	Naphthalene
RBSL		*374*	*24,170*	*2,229,000*	*353,600*	*584*
SB-1	07/23/02	<8.2	<8.2	<8.2	<8.2	<8.2
SB-3	07/23/02	<6.8	<6.8	<6.8	<6.8	<6.8
SB-5	07/23/02	<6.4	<6.4	<6.4	<6.4	<6.4
SB-6	07/24/02	<4.9	<4.9	<4.9	<4.9	<4.9
SB-7	07/24/02	<5.1	<5.1	<5.1	<5.1	<5.1
SB-8	07/24/02	<6.0	<6.0	<6.0	<6.0	<6.0
SB-9	07/24/02	<5.8	<5.8	<5.8	<5.8	<5.8

Table 4
Groundwater Field Parameter Measurements
George Souther's Grocery
Campobello, SC - UST #08650

Well Number	Date	Dissolved oxygen mg/l	pH	Temperature Degrees Celcius	Conductivity us/cm
MW-1	11/18/05	2.1	5.3	18.2	105
MW-2	11/22/05	dry	dry	dry	dry
MW-3	11/18/05	1.9	7.1	19.3	85
MW-4	11/18/05	2.6	5.1	18.3	113
MW-5	11/18/05	FP	FP	FP	FP
MW-6R	11/22/05	3.7	5.1	19.1	129
MW-7	11/18/05	0.9	4.8	18.6	193
MW-8	11/18/05	FP	FP	FP	FP
MW-9	11/18/05	1.4	5.3	19.2	123
MW-10R	12/14/05	4.2	5.8	18.4	65
MW-11	11/23/05	3.7	4.8	18.9	136
MW-12	12/06/05	4.0	5.6	19.3	229
MW-13R	11/22/05	2.8	4.8	19.6	78
MW-14R	12/07/05	3.1	5.1	19.4	216
MW-15R	12/07/05	3.7	6.9	20.1	341
MW-16	12/06/05	4.2	5.9	20.0	169
MW-17	11/18/05	3.6	5.4	19.2	29
MW-18R	11/22/05	3.5	4.7	18.7	143
MW-19	11/23/05	4.3	4.7	21.1	433
MW-20	11/23/05	2.9	5.5	20.2	456
MW-21	11/23/05	3.6	5.3	19.8	255
MW-22	11/23/05	3.2	5.5	20.2	94
MW-23	12/06/05	3.0	4.7	19.6	103
MW-24	12/06/05	4.1	6.1	19.6	301
MW-25	12/06/05	2.8	4.7	19.2	86
MW-26	12/07/05	3.8	5.9	19.9	91
MW-27	11/22/05	3.4	5.2	18.3	143
MW-28	11/22/05	3.6	5.8	18.1	469
MW-29	12/07/05	3.2	5.3	19.2	119
MW-30	11/22/05	3.0	5.5	19.6	220
MW-31	11/22/05	2.3	6.0	18.1	86
MW-32	12/07/05	3.1	6.4	18.4	94
MW-33	12/12/05	3.6	7	19.1	131
MW-34	12/12/05	dry	dry	dry	dry
MW-35	11/22/05	3.3	6.3	18	69

Well Number	Date	Dissolved oxygen mg/l	pH	Temperature Degrees Celcius	Conductivity us/cm
MW-36	11/22/05	3.0	6.1	17.5	125
MW-37	11/22/05	2.9	5.9	18.4	211
MW-38	11/22/05	2.9	6.4	17.9	106
MW-39	11/22/05	3.1	7.1	18.3	113
MW-40	12/12/05	3.4	18	18.6	162
MW-41	11/22/05	3.8	6.1	20.1	168
MW-42	11/22/05	3.9	5.2	18.1	303
MW-43	11/22/05	2.4	4.7	18.7	121
PW-1	12/06/05	1.7	4.7	18.3	328
PW-2	12/06/05	3.0	8.1	17.9	174
DW-1	12/14/05	2.8	6.3	19.4	93
DW-2	12/12/05	3.0	7.2	19.3	44
DW-3	12/14/05	2.6	7.4	18.2	110
DW-4	12/12/05	3.6	6.7	18.6	234
DW-5	12/14/05	2.4	7	18.2	245
DW-6	12/14/05	3.0	6.3	17.8	62

Note: 1) The temperature was measured in degrees Celcius

2) NA - Not available

Table 5
BTEX and PNA Groundwater Analytical Results (ug/l)
George Souther's Grocery
Campobello, SC - UST #08650

Sample	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Napthalenes	1,2 DCA
RBSL		*5*	*1,000*	*700*	*10,000*	*40*	*25*	*NA*
MW-1	08/30/02	dry	dry	dry	dry	dry	dry	dry
	07/18/03	**49,000**	**180,000**	**31,000**	**180,000**	**9,600**	**23,000**	NA
	11/18/05	**45,000**	**620,000**	**22,000**	**108,000**	**10,000**	**6,200**	<2500
MW-2	08/30/02	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	07/18/03	**43,000**	**62,000**	**5,000**	**27,000**	**7,600**	**7,600**	NA
	11/22/05	**dry**	**dry**	**dry**	**dry**	**dry**	**dry**	dry
MW-3	08/30/02	dry	dry	dry	dry	dry	dry	dry
	07/18/03	**44,000**	**60,000**	**4,200**	**24,000**	**<2500**	**7,100**	NA
	11/18/05	**36,000**	**46,000**	**1,700**	**11,800**	<1.0	**2,600**	1300.0
MW-4	11/18/03	<5.0	<5.0	<5.0	<5.0	<5.0	<20.0	NA
	07/18/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	11/18/05	**6.4**	28.0	4.0	26.0	3.6	12	<5.0
MW-5	08/30/02	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	07/18/03	**46,000**	**92,000**	**13,000**	**86,000**	**<5000**	**22000**	NA
	11/18/05	**40,000**	**59,000**	**3,200**	**18,000**	**<500**	**5,500**	1,400
MW-6	08/30/02	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	07/18/03	not located	not located	not located	not located	not located	not located	not located
MW-6R	11/22/05	**15**	480	**140**	790	<10	**79**	<50
MW-7	08/30/02	dry	dry	dry	dry	dry	dry	dry
	07/18/03	**36,000**	**75,000**	**5,300**	**30,000**	**<2500**	**8600**	NA
	11/18/05	**35,000**	**71,000**	**3,500**	**20,400**	**<500**	**2700**	<2500
MW-8	08/30/02	dry	dry	dry	dry	dry	dry	dry
	07/18/03	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/23/05	**57,000**	**380,000**	**34,000**	**167,000**	**<500**	**12,000**	<2500
MW-9	08/30/02	dry	dry	dry	dry	dry	dry	dry
	07/18/03	**28,000**	**23,000**	**1,500**	9,500	**<500**	**1500**	NA
	~~11/18/05~~	~~**25,000**~~	~~**22,000**~~	~~**1,100**~~	~~7,600~~	~~**<500**~~	~~**2,600**~~	~~1,300~~
MW-10	08/29/02	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	07/18/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
MW-10R	12/14/05	<1.0	<1.0	<1.0	3.8	<1.0	5.0	<5.0
MW-11	08/29/02	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	07/18/03	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/23/05	**<50**	120	**1300**	9400	**<50**	**1100**	<250
MW-12	08/29/02	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	07/18/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	12/06/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
MW-13	08/29/02	dry	dry	dry	dry	dry	dry	dry
	07/18/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
MW-13R	11/22/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
MW-14	08/29/02	<5.0	<5.0	<5.0	7.5	<5.0	<5.0	NA
	07/18/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA

Sample	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Napthalenes	1,2 DCA
MW-14R	12/07/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
MW-15	08/29/02	**200**	<5.0	<5.0	170	17	<5.0	NA
	07/18/03	**130**	<5.0	<5.0	63.0	<5.0	<5.0	NA
MW-15R	12/07/05	3.2	<1.0	<1.0	3.8	<1.0	<5.0	<5.0
MW-16	08/29/02	<5.0	<5.0	<5.0	13	<5.0	<5.0	NA
	07/18/03	<5.0	27	20	95	<5.0	<5.0	NA
	12/06/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
MW-17	08/29/02	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	07/17/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	11/18/05	**7.8**	32	5.2	32	<1.0	13	<5.0
MW-18	08/29/02	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	07/17/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
MW-18R	11/22/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
MW-19	08/29/02	**400**	51	8	100	<5.0	**37**	NA
	07/17/03	**18**	88	55	290	<5.0	<5.0	NA
	11/23/05	**6.8**	3	<1.0	28	<1.0	<5.0	<5.0
MW-20	08/29/02	**7.0**	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	07/17/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	11/23/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
MW-21	07/17/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	11/23/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
MW-22	07/17/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	11/23/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
MW-23	07/17/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	12/06/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
MW-24	07/18/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA
	12/06/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
MW-25	07/18/03	**6**	130	55	250	<5.0	**26**	NA
	12/06/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
MW-26	12/07/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
MW-27	11/22/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
MW-28	11/22/05	**94**	**9,900**	**2,600**	**13,800**	**<50**	**1,100**	<250
MW-29	12/7//05	**13,000**	**16,000**	**1,000**	**5,400**	<10	**430**	380
MW-30	11/22/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
MW-31	11/22/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
MW-32	12/07/05	**36,000**	**52,000**	**3,200**	**18,600**	**<500**	**2,900**	<2500
MW-33	12/12/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
MW-34	12/12/05	dry	dry	dry	dry	dry	dry	dry
MW-35	11/22/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
MW-36	11/22/05	**<500**	**5,800**	**1,300**	8,500	**<500**	**2,500**	<2500

Sample	Date	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Napthalenes	1,2 DCA
MW-37	11/22/05	<1.0	4.8	2.4	5.8	<1.0	<5.0	<5.0
MW-38	11/22/05	<1.0	1.9	1.1	7.6	<1.0	5.0	<5.0
MW-39	11/22/05	1	33.0	3.9	17.6	<1.0	<5.0	<5.0
MW-40	12/12/05	**5.2**	37	4.0	13.1	<1.0	5.4	<5.0
MW-41	11/22/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
MW-42	11/22/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
MW-43	11/22/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
PW-1	08/30/02	**1,600**	50	49	280	<5.0	**31**	NA
	07/17/03	**1,100**	<5.0	8	30	<5.0	24	NA
	12/06/05	<1.0	3.1	<1.0	5.9	<1.0	<5.0	<5.0
RW-1	08/30/02	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	NA
	07/17/03	**13,000**	**14,000**	**2,100**	**14,000**	**<500**	**1,500**	NA
	12/06/05	**9,500**	**54,000**	**6,400**	**35,000**	**<500**	**3,400**	<2500
PW-2	07/17/03	<5.0	<5.0	<5.0	<5.0	<5.0	15	NA
	12/06/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
DW-1	12/14/05	**900**	50	6	36	<1.0	**62**	<5.0
DW-2	12/12/05	**400**	310	78	490	<1.0	**25**	<5.0
DW-3	12/14/05	**22**	140	13	93	<1.0	8	<5.0
DW-4	12/12/05	**640**	**4,700**	**620**	4,400	<1.0	**310**	<5.0
DW-5	12/14/05	**1,200**	71	14	84	<1.0	**100**	<5.0
DW-6	04/20/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<5.0
GW-01	09/01/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	NA
GW-02	09/01/05	**10**	3.5	<1.0	<2.0	<1.0	<5.0	NA
GW-03	09/01/05	**18**	10	<1.0	4.0	<1.0	<5.0	NA
GW-04	09/01/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	NA
GW-05	09/01/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	NA
GW-06	09/01/05	1.1	<1.0	<1.0	<2.0	<1.0	<5.0	NA
GW-07	09/01/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	NA
GW-08	10/20/05	<1.0	1.3	<1.0	<2.0	<1.0	<5.0	NA
GW-09	10/20/05	<1.0	4.8	1.7	5.5	<1.0	<5.0	NA
GW-10	10/20/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	NA
GW-11	10/20/05	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	NA
GW-12	10/21/05	**290**	**6,900**	**1,000**	6,200	<1.0	**54**	NA
GW-13	10/21/05	1.1	15	1.3	5.6	<1.0	<5.0	NA
GW-14	10/21/05	1.8	27	2.4	10.6	<1.0	<5.0	NA
GW-15	10/21/05	1.8	25.0	2.1	9.3	<1.0	<5.0	NA
GW-16	10/31/05	<1.0	10	<1.0	4.3	<1.0	<5.0	NA
GW-17	10/31/05	<1.0	5.4	<1.0	2.5	<1.0	<5.0	NA

Table 6
Groundwater Natural Attenuation, EDB, and Lead Results
George Souther's Grocery
Columbia, SC - UST #08650

Well Number	Date	EDB (ug/l)	Total 8-Oxygenates	Total Lead (mg/l)	Nitrate (mg/l)	Sulfate (mg/l)	Dissolved Iron (mg/l)	Methane (mg/l)
RBSL		0.05	NA	0.015	NA	NA	N/A	N/A
MW-1	08/30/02	dry	dry	dry	dry	dry	dry	dry
	11/18/05	**0.322**	82000	**0.402**	NA	NA	NA	NA
MW-2	08/30/02	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/22/05	dry	dry	dry	dry	dry	dry	dry
MW-3	08/30/02	dry	dry	dry	dry	dry	dry	dry
	11/18/05	**1**	192,040	**0.071**	NA	NA	NA	NA
MW-4	08/30/02	NA	NA	NA	NA	NA	NA	NM
	11/18/05	**0.211**	60	0.001	NA	NA	NA	NA
MW-5	08/30/02	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/18/05	**1280**	318,000	**0.512**	NA	NA	NA	NA
MW-6	08/30/02	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-6R		**0.057**	600	0.012	<0.25	9.7	0.182	<0.004
MW-7	08/30/02	dry	dry	dry	dry	dry	dry	dry
	11/18/05	**0.246**	89000	0.078	NA	NA	NA	NA
MW-8	08/30/02	dry	dry	dry	dry	dry	dry	dry
	11/23/05	**1140**	71000	**0.457**	NA	NA	NA	NA
MW-9	08/30/02	dry	dry	dry	dry	dry	dry	dry
	11/18/05	**0.802**	118,550	0.0031	NA	NA	NA	NA
MW-10	08/29/02	<0.021	NA	**1.0**	<0.020	6.4	0.58	NA
MW-10R	12/14/05	<0.020	175	0.0013	<5.0	37	<1.0	<0.004
MW-11	08/29/02	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
	11/23/05	<0.020	2,950.0	**0.077**	NA	NA	NA	NA
MW-12	08/29/02	<0.020	NA	**0.087**	0.02	<1.0	1.0	NA
	12/06/05	<0.02	60.0	<0.001	NA	NA	NA	NA

Well Number	Date	EDB (ug/l)	Total 8-Oxygenates	Total Lead (mg/l)	Nitrate (mg/l)	Sulfate (mg/l)	Dissolved Iron (mg/l)	Methane (mg/l)
MW-13	08/29/02	dry	dry	dry	dry	dry	dry	dry
MW-13R	11/22/05	0.041	62	<0.001	0.26	3.7	0.605	<0.004
MW-14	08/29/02	<0.019	NA	**0.036**	0.33	1.8	0.23	NA
MW-14R	12/07/05	<0.020	60.0	**0.052**	<0.25	24	0.217	<0.004
MW-15	08/29/02	<0.02	NA	<0.003	0.51	3.9	0.12	NA
MW-15R	12/07/05	0.048	60	**0.084**	<0.25	25	<0.1	<0.004
MW-16	08/29/02	<0.020	NA	**0.13**	1.8	1.5	0.16	NA
	12/06/05	<0.020	60.0	<0.001	NA	NA	NA	NA
MW-17	08/29/02	<0.019	NA	0.0076	13	1.6	0.15	NA
	11/18/05	**0.239**	60	0.0027	NA	NA	NA	NA
MW-18	08/28/02	<0.020	NA	**0.067**	15	2.1	0.24	NA
MW-18R	11/22/05	0.02	60	0.011	0.81	<1.0	<0.10	<0.0040
MW-19	08/28/02	<0.019	NA	**0.42**	<0.02	3.3	0.72	NA
	11/23/05	<0.020	60	0.0031	NA	NA	NA	NA
MW-20	08/29/02	<0.019	NA	**0.063**	<0.020	3.8	5.9	NA
	11/23/05	<0.020	60	<0.001	NA	NA	NA	NA
MW-21	11/23/05	<0.020	60	<0.001	NA	NA	NA	NA
MW-22	11/23/05	<0.020	60	<0.001	NA	NA	NA	NA
MW-23	12/06/05	<0.020	60	**0.023**	NA	NA	NA	NA
MW-24	12/06/05	<0.020	60	<0.001	NA	NA	NA	NA
MW-25	12/06/05	<0.020	60	<0.001	NA	NA	NA	NA
MW-26	12/06/05	<0.020	60	0.006	NA	NA	NA	NA

Well Number	Date	EDB (ug/l)	Total 8-Oxygenates	Total Lead (mg/l)	Nitrate (mg/l)	Sulfate (mg/l)	Dissolved Iron (mg/l)	Methane (mg/l)
MW-27	11/22/05	<0.020	62.4	0.0043	13	1.9	<0.1	<0.004
MW-28	11/22/05	<0.020	2,950	0.0059	4.1	39	<0.1	0.5
MW-29	12/07/05	**0.179**	6810	**0.034**	<0.25	<1.0	<0.1	0.007
MW-30	11/22/05	**0.158**	93	**0.061**	<0.25	<1.0	<0.1	<0.004
MW-31	11/22/05	<0.02	60	**0.189**	0.66	4.8	0.199	<0.004
MW-32	12/07/05	**0.578**	33,000	**0.164**	<0.25	13	2.01	0.013
MW-33	12/12/05	<0.020	168	0.0035	<0.25	6.8	<0.10	<0.004
MW-34	12/12/05	dry	dry	dry	dry	dry	dry	dry
MW-35	11/22/05	<0.020	60	0.002	<0.25	3.8	<0.1	0.011
MW-36	11/22/05	<0.02	<29,500	**0.661**	<0.25	4.9	<0.1	0.015
MW-37	11/22/05	<0.020	60	**0.015**	0.33	1.9	<0.1	<0.004
MW-38	11/22/05	<0.02	60	**0.614**	0.33	3.9	0.109	<0.004
MW-39	11/22/05	<0.02	60.0	0.013	0.25	1.6	<0.1	<0.004
MW-40	12/12/05	**0.13**	55	**0.099**	0.9	8.5	<0.10	<0.004
MW-41	11/22/05	<0.02	60	<0.001	0.28	<1.0	<0.1	<0.004
MW-42	11/22/05	<0.02	60	0.0028	0.41	<1.0	<0.1	<0.004
MW-43	11/22/05	<0.02	60.0	<0.013	0.71	<1.0	<0.1	<0.004
DW-1	12/14/05	**0.184**	356	0.0011	<0.25	<1.0	<0.1	0.0046
DW-2	12/12/05	**0.568**	264	0.00357	<12	130	<0.10	0.0052
DW-3	12/14/05	<0.020	108.0	0.94	2.5	<0.1	<0.1	<0.004
DW-4	12/12/05	**11.6**	325	0.013	<0.25	27	0.226	<0.004
DW-5	12/14/05	**0.893**	450	<0.001	<0.25	<1.0	<0.1	0.0051
DW-6	12/12/05	<0.020	55	0.0045	<0.25	68	<0.10	<0.004
PW-1	08/30/02	<0.019	NA	0.0089	<0.02	8	1.5	NA
	12/06/05	<0.02	1,235	**<0.037**	NA	NA	NA	NA
PW-2	08/30/02	<0.020	NA	**0.15**	NA	NA	NA	NM
	12/06/05	**0.063**	136	<0.001	NA	NA	NA	NA
RW-1	08/30/02	FP	FP	FP	FP	FP	FP	FP
	12/06/05	0.014	13,850	**0.018**	NA	NA	NA	NA

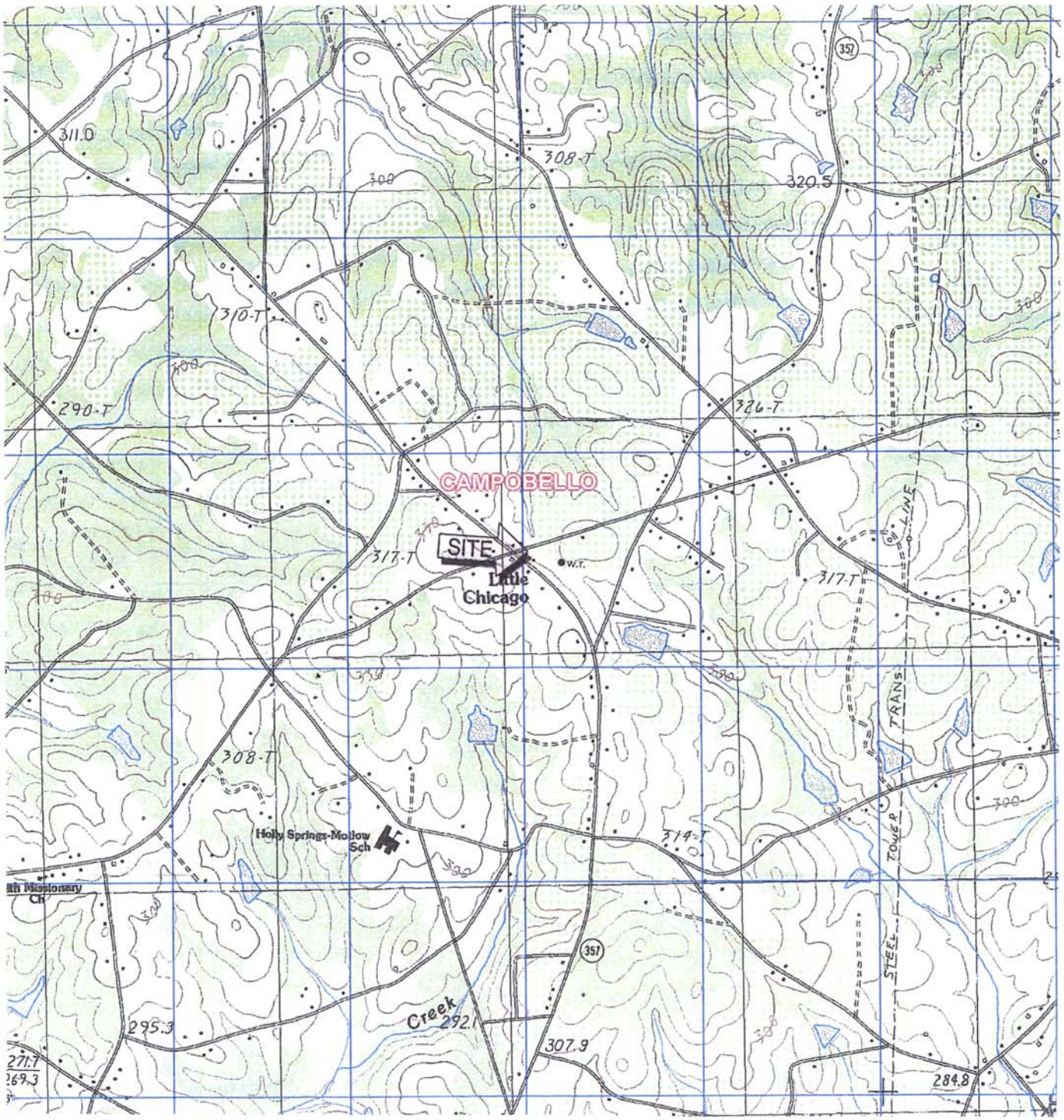
Table 7
Groundwater 8 - Oxygenates
George Souther's Grocery
Campobello, SC - UST #08650

Well Number	Date	Ethyl-t-butylether (ug/l)	Tert-amyl methyl ether (ug/l)	Tertiary butyl alcohol (ug/l)	Ethanol (ug/l)	T-amyl alcohol (ug/l)	T-butyl Formate (ug/l)	Ethyl-t-butyl alcohol (ug/l)	Diisopropyl ether (ug/l)
RBSL		NA	NA	NA	NA	NA	N/A	NA	N/A
MW-1	11/18/05	<2500	<2500	<2500	<12000	<2500	<2500	<2500	52000
MW-2	11/22/05	dry	dry	dry	dry	dry	dry	dry	dry
MW-3	11/18/05	<5.0	<5.0	13000	<25	120000	<5.0	35000	24000
MW-4	11/18/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-5	11/18/05	<2500	<2500	<2500	<12000	230000	<2500	37000	29000
MW-6R	11/22/05	<50	<50	<50	<250	<50	<50	<50	2900
MW-7	11/18/05	<2500	<2500	<2500	<12000	<2500	<2500	<2500	62000
MW-8	11/23/05	<2500	<2500	<2500	<12000	<2500	<2500	<2500	44000
MW-9	11/18/05	<2500	<2500	<2500	<12000	97000	<2500	<2500	8300
MW-10R	12/14/05	<5.0	<5.0	<5.0	<25	120	<5.0	<5.0	<5.0
MW-11	11/23/05	<250	<250	<250	<1200	<250	<250	<250	<250
MW-12	12/6/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-13R	11/22/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	6.9
MW-14R	12/07/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-15R	12/07/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-16	12/6/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-17	11/18/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-18R	11/22/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-19	11/23/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-20	11/23/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0

Well Number	Date	Ethyl-t-butylether (ug/l)	Tert-amyl methyl ether (ug/l)	Tertiary butyl alcohol (ug/l)	Ethanol (ug/l)	T-amyl alcohol (ug/l)	T-butyl Formate (ug/l)	Ethyl-t-butyl alcohol (ug/l)	Diisopropyl ether (ug/l)
MW-21	11/23/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-22	11/23/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-23	12/6/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-24	12/6/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-25	12/6/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-26	12/6/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-27	11/22/05	<5.0	7.4	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-28	11/22/05	<2500	<2500	<2500	<12000	<2500	<2500	<2500	<2500
MW-29	12/06/05	<50	<50	860	<250	<50	<50	2600	2900
MW-30	11/22/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	38
MW-31	11/22/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-32	12/07/05	<2500	<2500	<2500	<12000	<2500	<2500	<2500	11000
MW-33	12/12/05	<5.0	<5.0	54	<25	64	<5.0	<5.0	<5.0
MW-34	12/12/05	dry	dry	dry	dry	dry	dry	dry	dry
MW-35	11/22/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-36	11/22/05	<2500	<2500	<2500	<12000	<2500	<2500	<2500	<2500
MW-37	11/22/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-38	11/22/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-39	11/22/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-40	12/12/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-41	11/22/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-42	11/22/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
MW-43	11/22/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0

Well Number	Date	Ethyl-t-butylether (ug/l)	Tert-amyl methyl ether (ug/l)	Tertiary butyl alcohol (ug/l)	Ethanol (ug/l)	T-amyl alcohol (ug/l)	T-butyl Formate (ug/l)	Ethyl-t-butyl alcohol (ug/l)	Diisopropyl ether (ug/l)
DW-1	12/14/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	86	220
DW-2	12/12/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	94	120
DW-3	12/14/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	53	<5.0
DW-4	12/12/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0
DW-5	12/14/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	130	270
DW-6	12/12/05	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0

FIGURES



REFERENCE: CAMPOBELLO, SOUTH CAROLINA QUADRANGLE MAP, 7.5 MINUTE SERIES, U.S. GEOLOGIC SURVEY

SCALE 1 : 24,000

QUADRANGLE LOCATION

DRAWN: A.C.B.	DATE: 02/25/05
SCDHEC FACILITY ID# 08650	
PROJECT: GEORGE SOUTHER GROCERY	
PROJECT No.: 05-02-015	
LOCATION: CAMPOBELLO, SOUTH CAROLINA	

FIGURE 1
SITE LOCATION MAP

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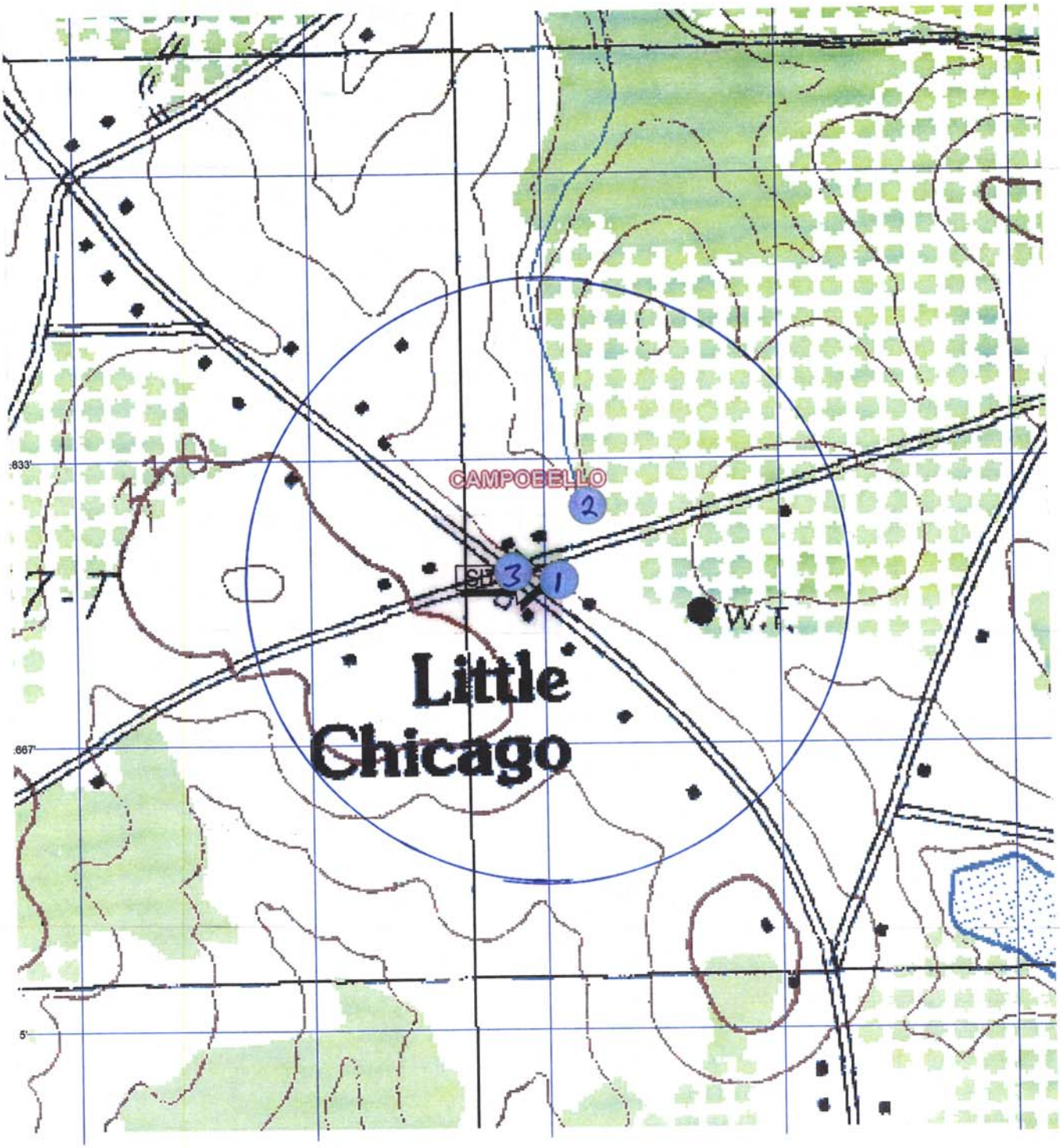

REFERENCE: CAMPOBELLO, SOUTH CAROLINA QUADRANGLE MAP, 7.5 MINUTE SERIES, U.S. GEOLOGIC SURVEY

SCALE 1 : 6,400

QUADRANGLE LOCATION

DRAWN: A.C.B.	DATE: 02/25/05
SCDHEC FACILITY ID# 08650	
PROJECT: GEORGE SOUTHER GROCERY	
PROJECT No.: 05-02-015	
LOCATION: CAMPOBELLO, SOUTH CAROLINA	

FIGURE 3
SITE TOPOGRAPHIC MAP
WITH POTENTIAL RECEPTORS

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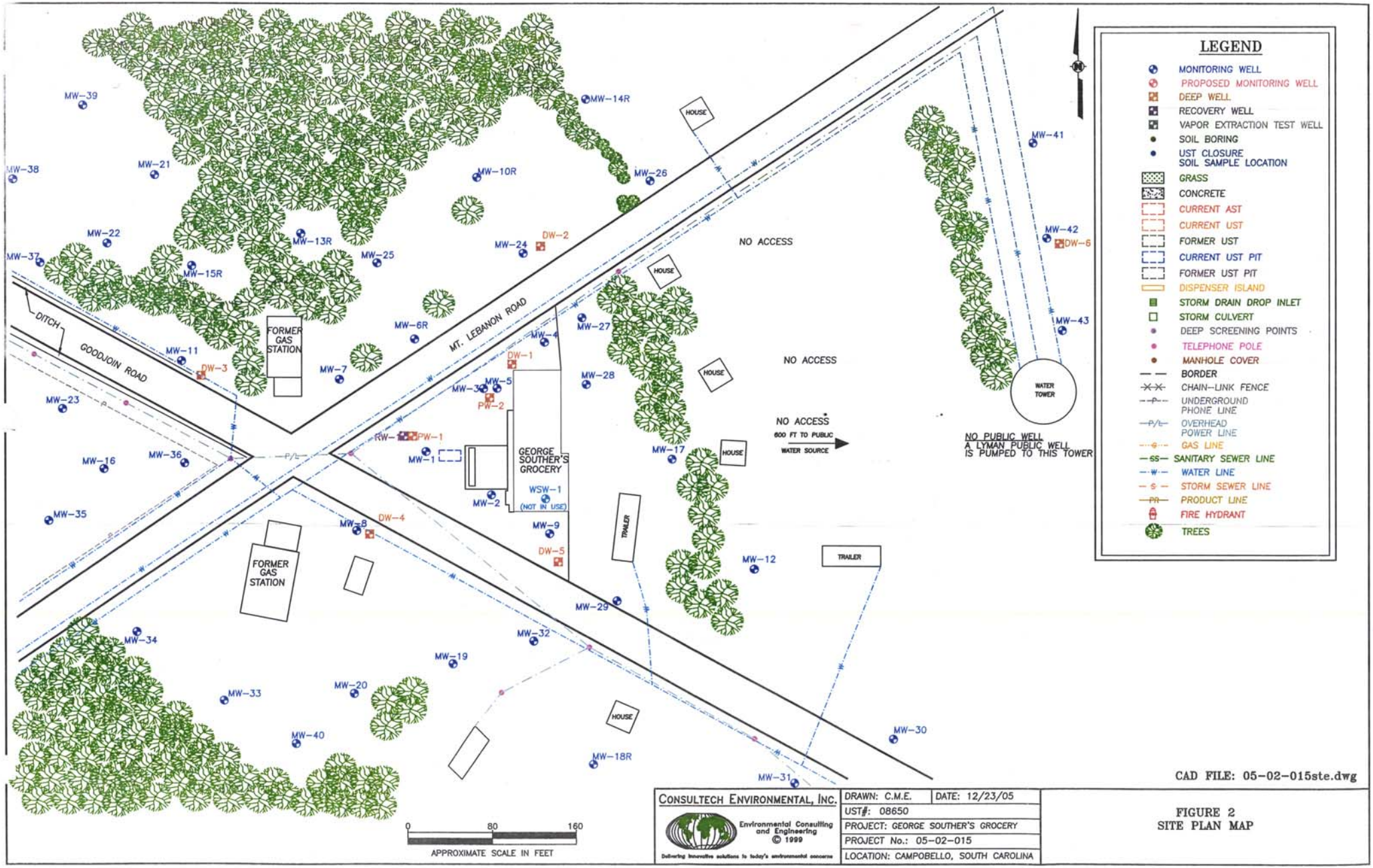
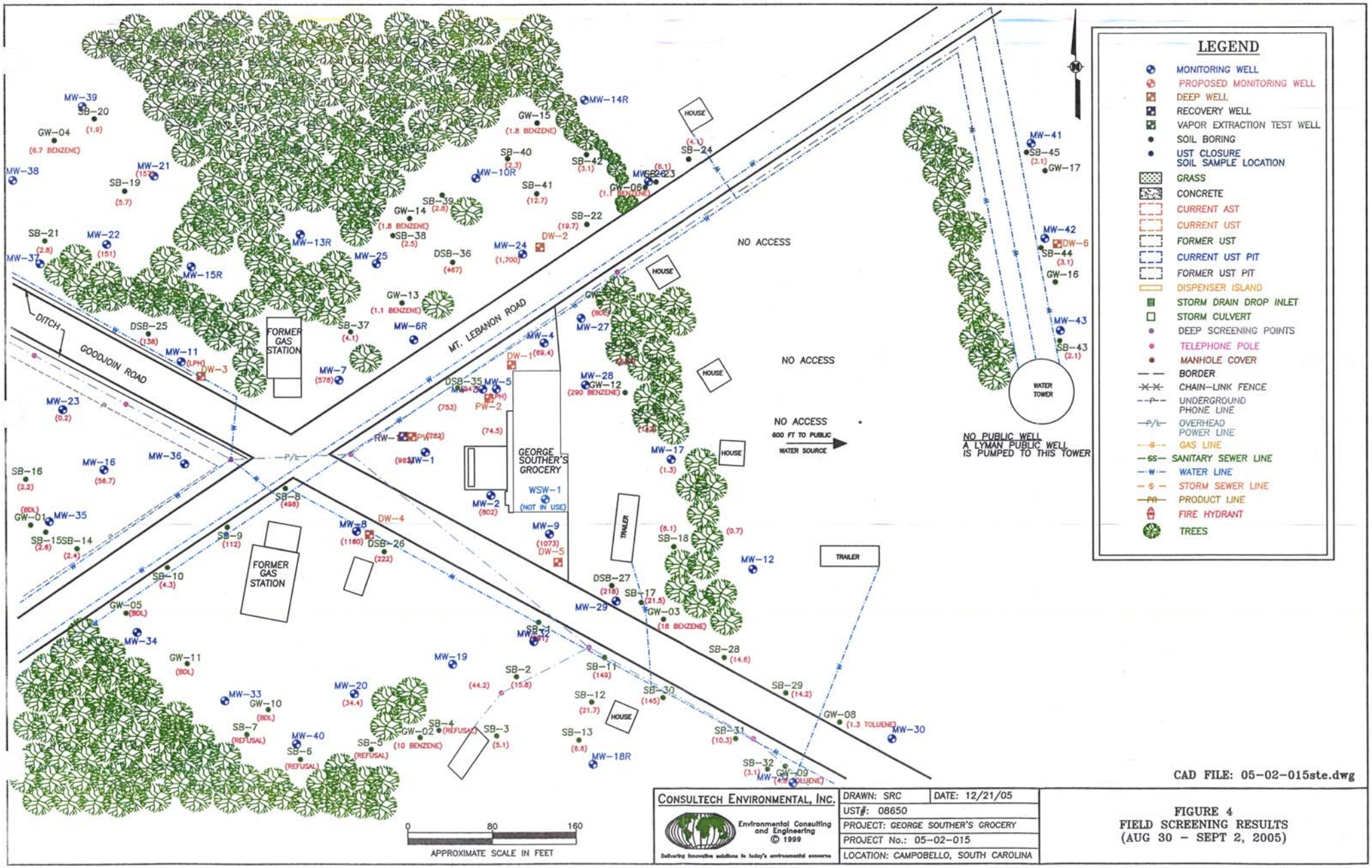


FIGURE 2
SITE PLAN MAP



CAD FILE: 05-02-015ste.dwg

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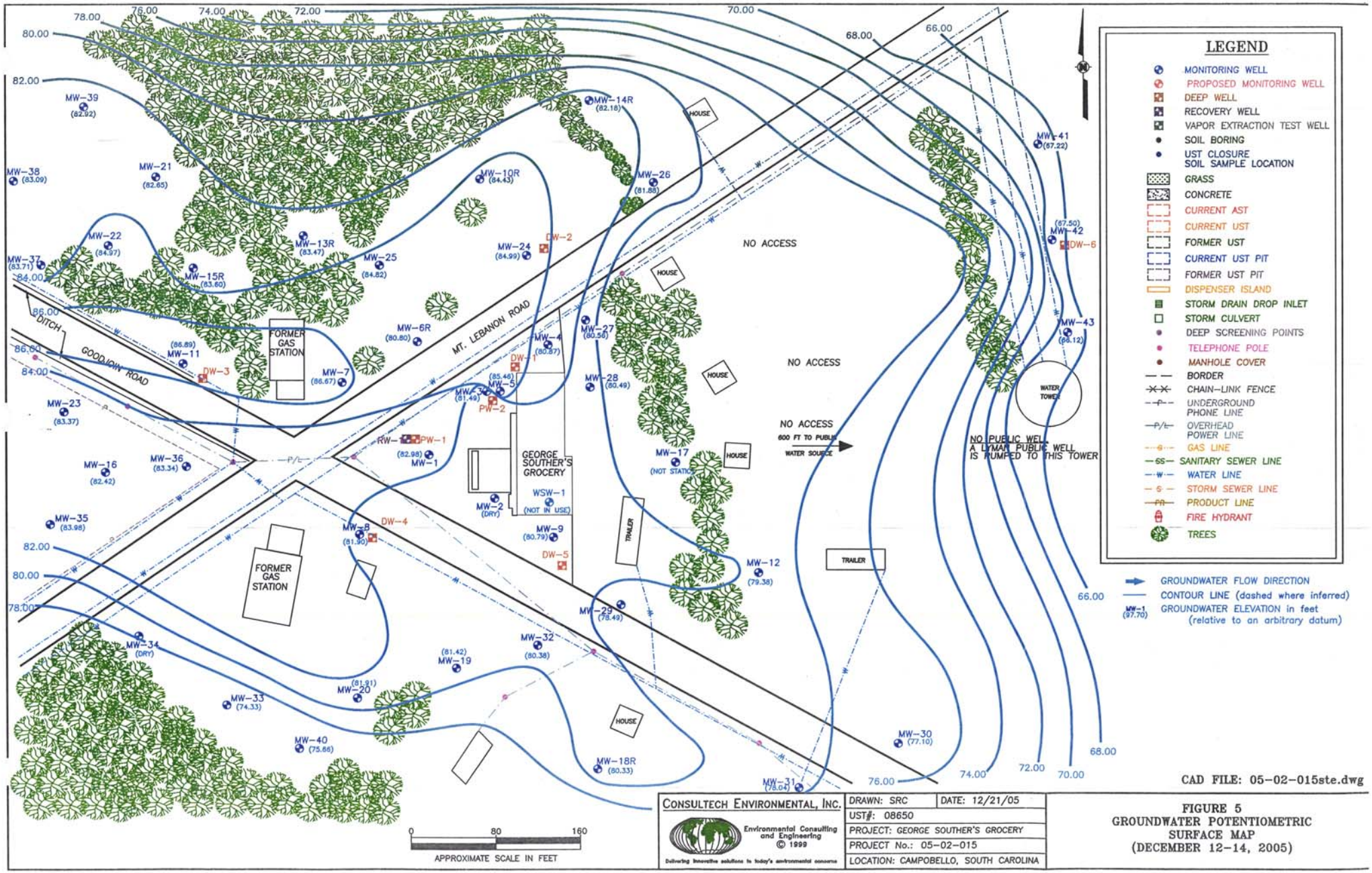
	UST#: 08650	
	PROJECT: GEORGE SOUTHER'S GROCERY	
	PROJECT No.: 05-02-015	
	LOCATION: CAMPOBELLO, SOUTH CAROLINA	

FIGURE 4
FIELD SCREENING RESULTS
(AUG 30 - SEPT 2, 2005)



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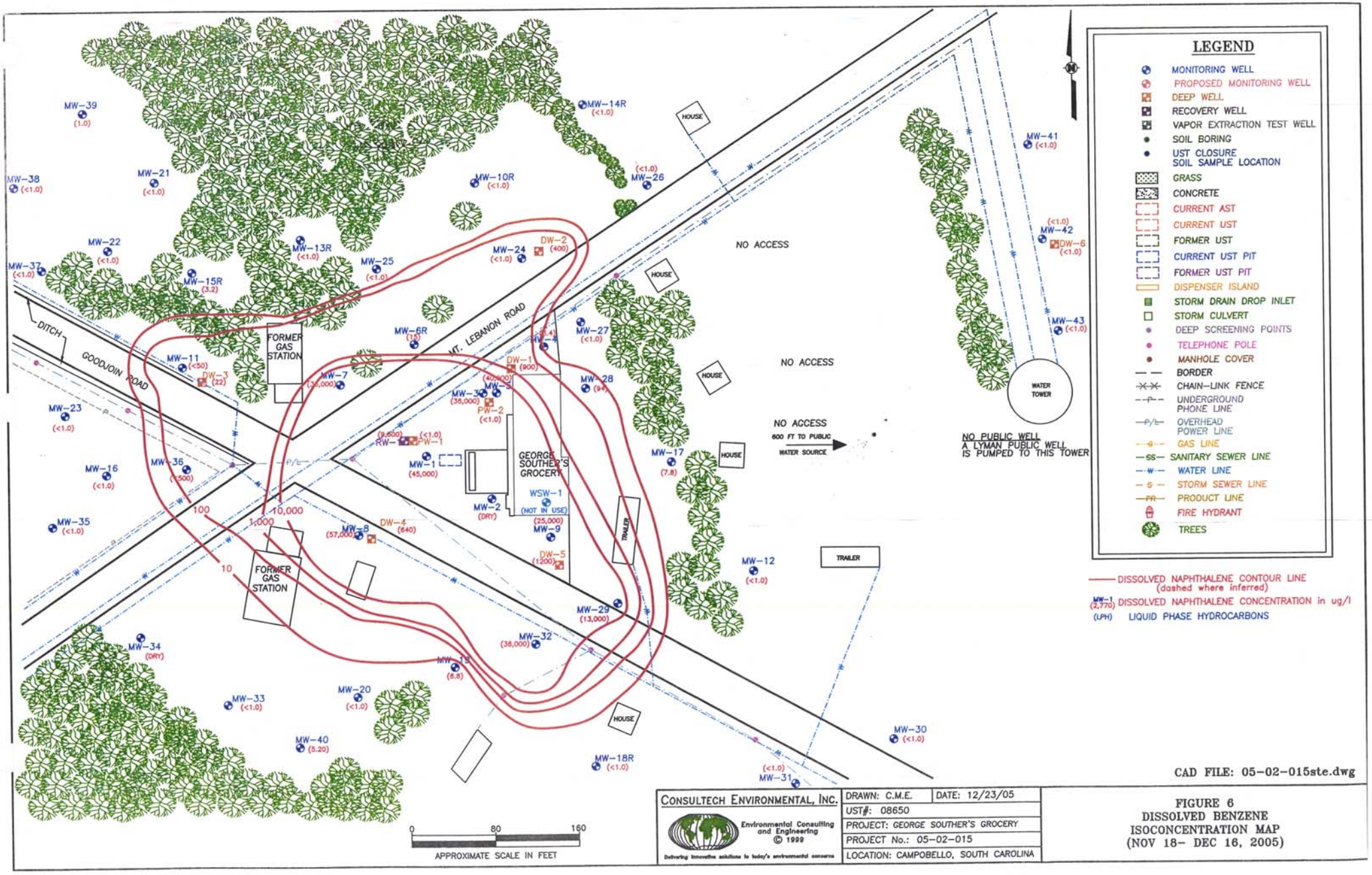
	PROJECT: GEORGE SOUTHER'S GROCERY	
	PROJECT No.: 05-02-015	
	LOCATION: CAMPOBELLO, SOUTH CAROLINA	

FIGURE 5
GROUNDWATER POTENTIOMETRIC SURFACE MAP
(DECEMBER 12-14, 2005)



CAD FILE: 05-02-015ste.dwg

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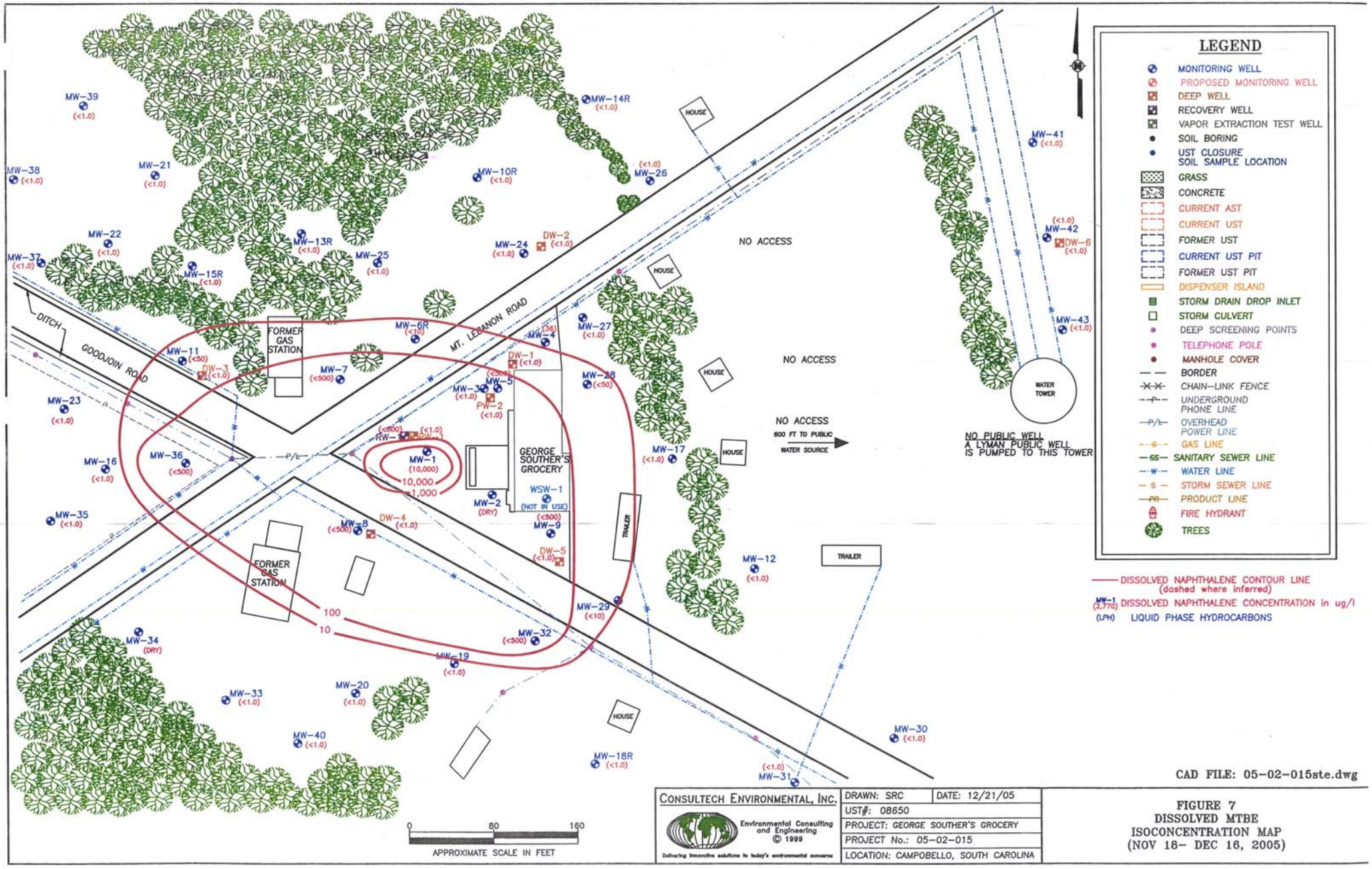
	UST#: 08650	
	PROJECT: GEORGE SOUTHER'S GROCERY	
	PROJECT No.: 05-02-015	
	LOCATION: CAMPOBELLO, SOUTH CAROLINA	

FIGURE 6
DISSOLVED BENZENE
ISOCONCENTRATION MAP
(NOV 18- DEC 16, 2005)



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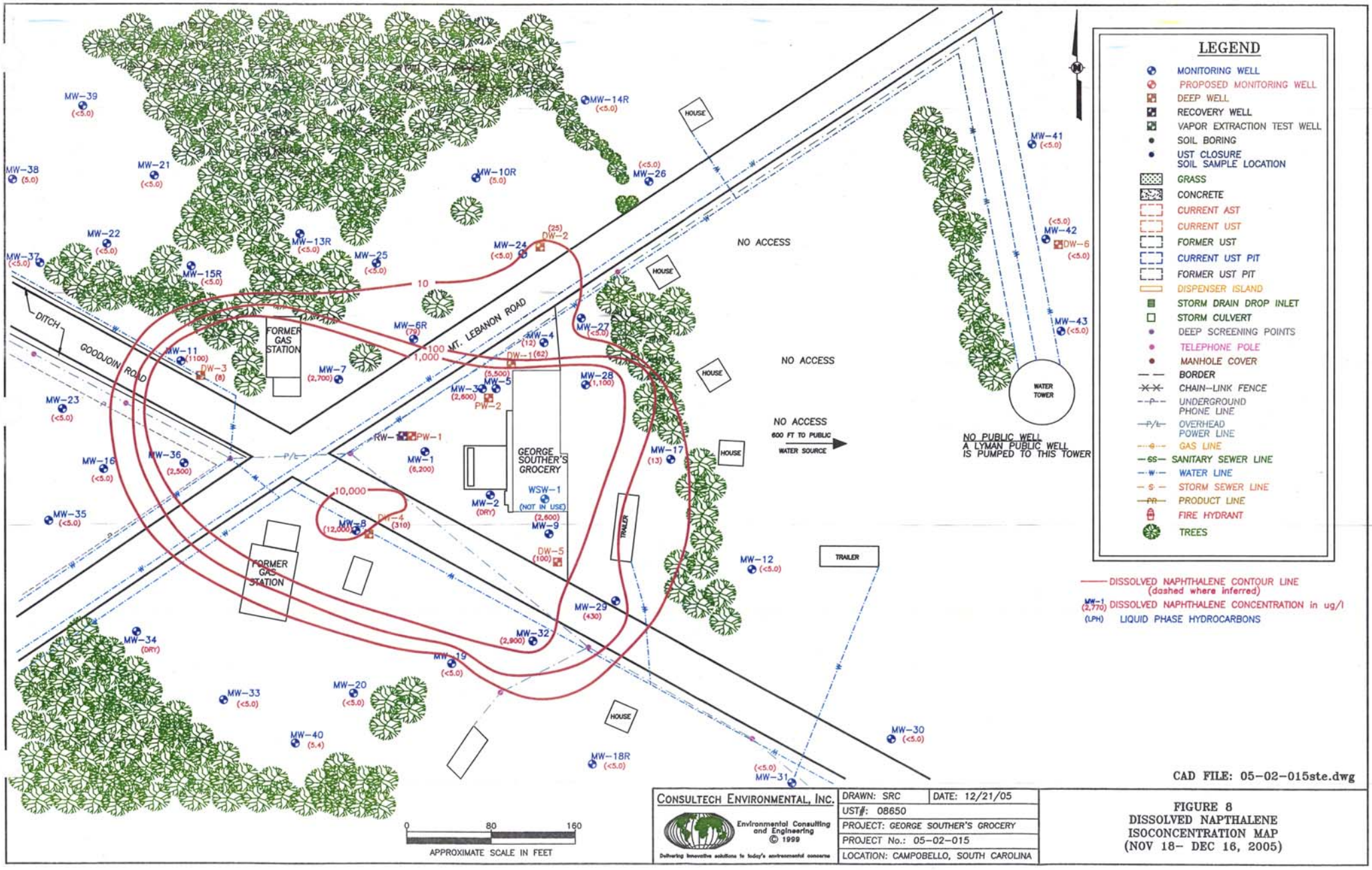
PROJECT No.: 05-02-015	
LOCATION: CAMPOBELLO, SOUTH CAROLINA	

FIGURE 7
DISSOLVED MTBE
ISOCONCENTRATION MAP
(NOV 18- DEC 16, 2005)



CAD FILE: 05-02-015ste.dwg

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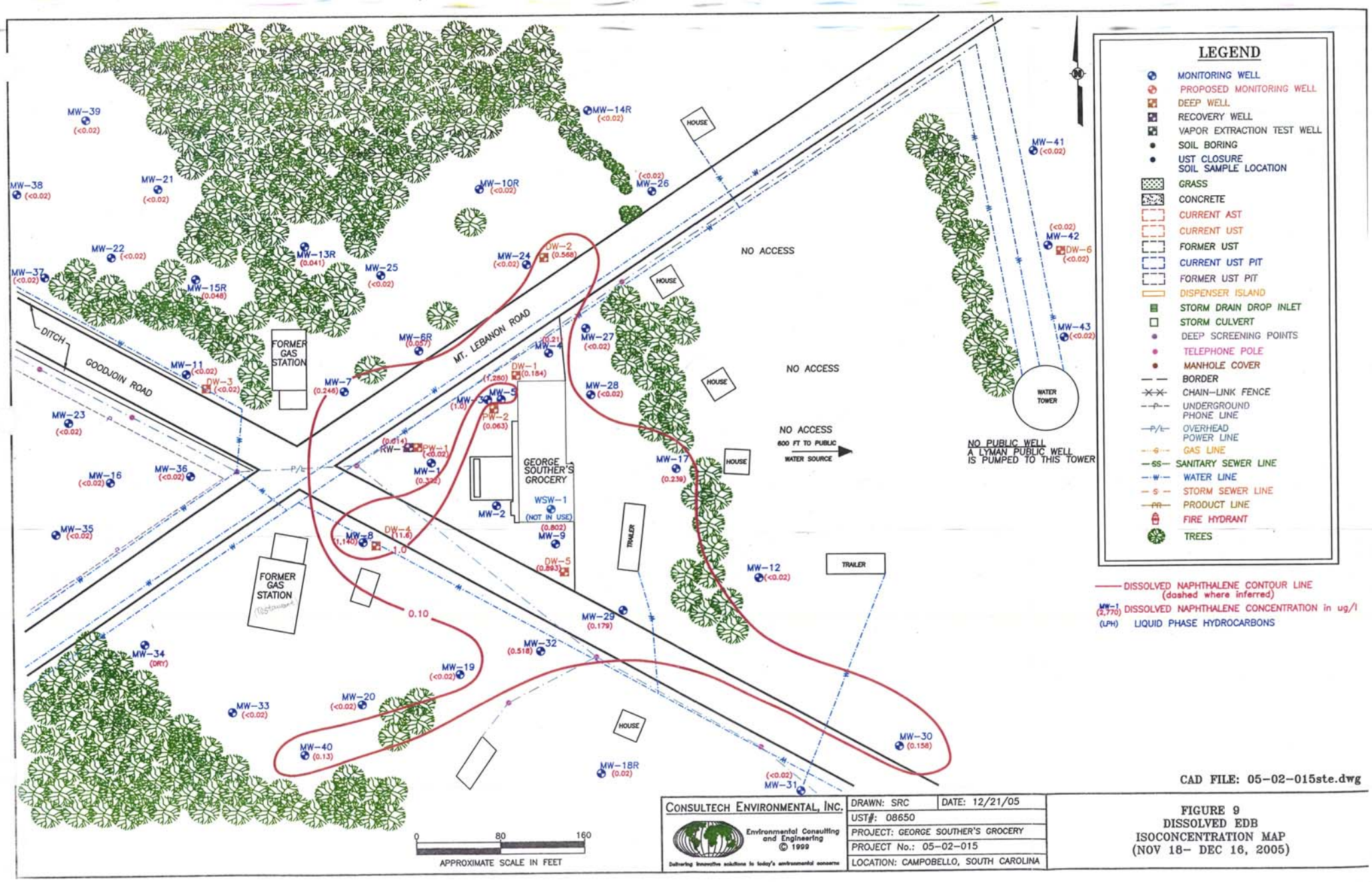
DRAWN: SRC	DATE: 12/21/05
UST#: 08650	
PROJECT: GEORGE SOUTHER'S GROCERY	
PROJECT No.: 05-02-015	
LOCATION: CAMPOBELLO, SOUTH CAROLINA	

FIGURE 8
DISSOLVED NAPTHALENE ISOCONCENTRATION MAP
(NOV 18- DEC 16, 2005)


LEGEND
MONITORING WELL
PROPOSED MONITORING WELL
DEEP WELL
RECOVERY WELL
VAPOR EXTRACTION TEST WELL
SOIL BORING
UST CLOSURE SOIL SAMPLE LOCATION
GRASS
CONCRETE
CURRENT AST
CURRENT UST
FORMER UST
CURRENT UST PIT
FORMER UST PIT
DISPENSER ISLAND
STORM DRAIN DROP INLET
STORM CULVERT
DEEP SCREENING POINTS
TELEPHONE POLE
MANHOLE COVER
BORDER
CHAIN-LINK FENCE
UNDERGROUND PHONE LINE
OVERHEAD POWER LINE
GAS LINE
SANITARY SEWER LINE
WATER LINE
STORM SEWER LINE
PRODUCT LINE
FIRE HYDRANT
TREES
DISSOLVED NAPHTHALENE CONTOUR LINE (dashed where inferred)
MW-1 (2,770) DISSOLVED NAPHTHALENE CONCENTRATION in ug/l
(LPH) LIQUID PHASE HYDROCARBONS
NO ACCESS
NO ACCESS
NO ACCESS
600 FT TO PUBLIC WATER SOURCE
NO PUBLIC WELL
A LYMAN PUBLIC WELL IS PUMPED TO THIS TOWER
WATER TOWER
HOUSE
TRAILER
FORMER GAS STATION
GEORGE SOUTHER'S GROCERY
MT. LEBANON ROAD
GOODJOIN ROAD
DITCH
MW-39 (<0.02)
MW-38 (<0.02)
MW-21 (<0.02)
MW-22 (<0.02)
MW-37 (<0.02)
MW-15R (0.048)
MW-13R (0.041)
MW-10R (<0.02)
MW-14R (<0.02)
MW-26 (<0.02)
MW-25 (<0.02)
MW-24 (<0.02)
DW-2 (0.568)
MW-41 (<0.02)
MW-42 (<0.02)
DW-6 (<0.02)
MW-43 (<0.02)
MW-6R (0.057)
MW-27 (<0.02)
MW-4 (0.21)
DW-1 (0.184)
(1,280)
MW-11 (<0.02)
DW-3 (<0.02)
MW-7 (0.246)
MW-28 (<0.02)
MW-5
MW-3 (1.0)
PW-2 (0.063)
MW-23 (<0.02)
RW- (0.014)
PW-1 (<0.02)
MW-1 (0.328)
MW-17 (0.239)
MW-16 (<0.02)
MW-36 (<0.02)
MW-2
WSW-1 (NOT IN USE)
(0.802)
MW-9
MW-35 (<0.02)
DW-4 (11.6)
MW-8 (1,140)
1.0
DW-5 (0.893)
MW-12 (<0.02)
0.10
MW-29 (0.179)
MW-32 (0.518)
MW-34 (DRY)
MW-19 (<0.02)
MW-20 (<0.02)
MW-33 (<0.02)
MW-40 (0.13)
MW-18R (0.02)
(<0.02) MW-31
MW-30 (0.158)
0 80 160
APPROXIMATE SCALE IN FEET
CAD FILE: 05-02-015ste.dwg
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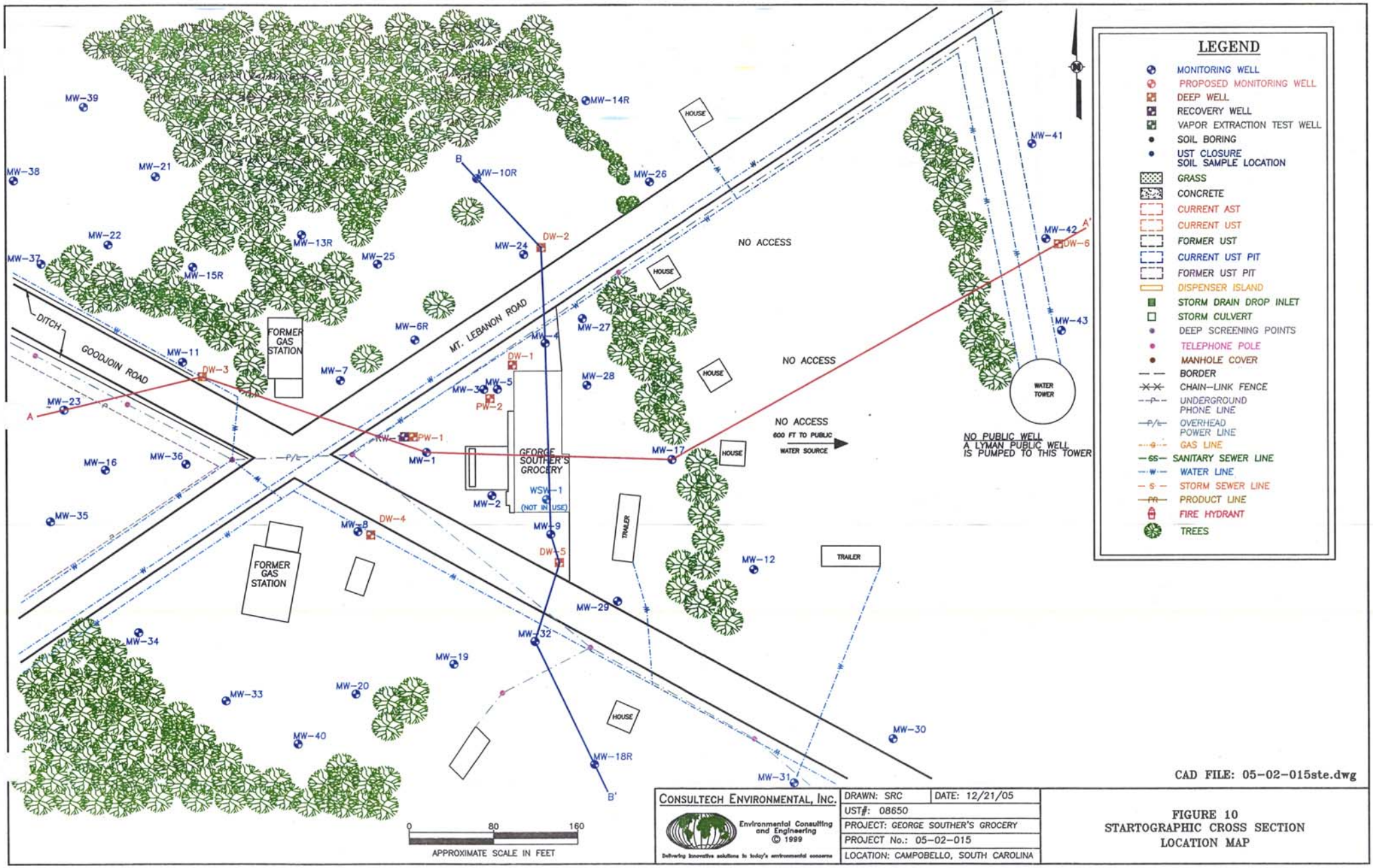
DRAWN: SRC
DATE: 12/21/05
UST#: 08650
PROJECT: GEORGE SOUTHER'S GROCERY
PROJECT No.: 05-02-015
LOCATION: CAMPOBELLO, SOUTH CAROLINA
FIGURE 9
DISSOLVED EDB
ISOCONCENTRATION MAP
(NOV 18- DEC 16, 2005)



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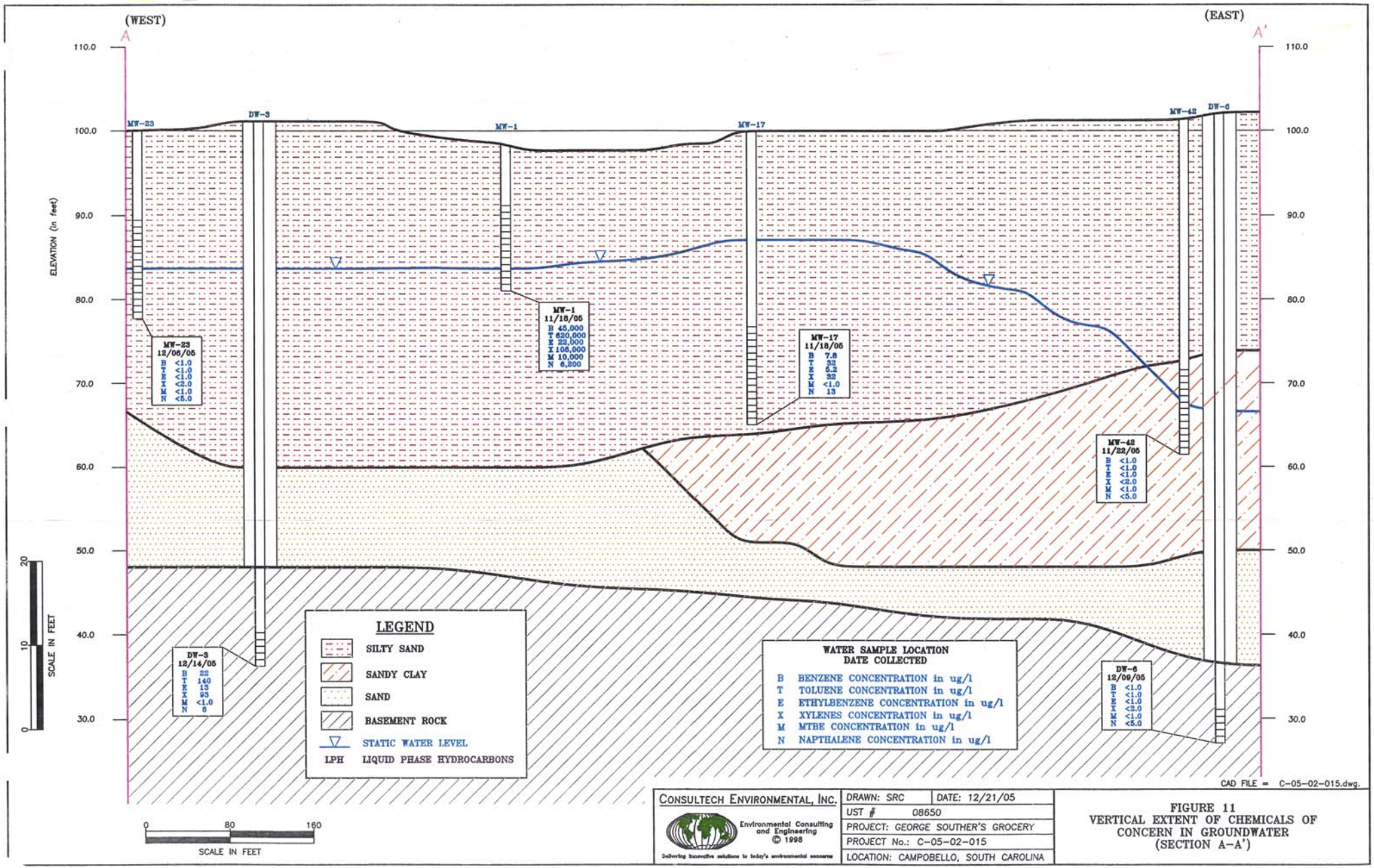
UST#: 08650	
PROJECT: GEORGE SOUTHER'S GROCERY	
PROJECT No.: 05-02-015	
LOCATION: CAMPOBELLO, SOUTH CAROLINA	

FIGURE 10
STARTOGRAPHIC CROSS SECTION
LOCATION MAP



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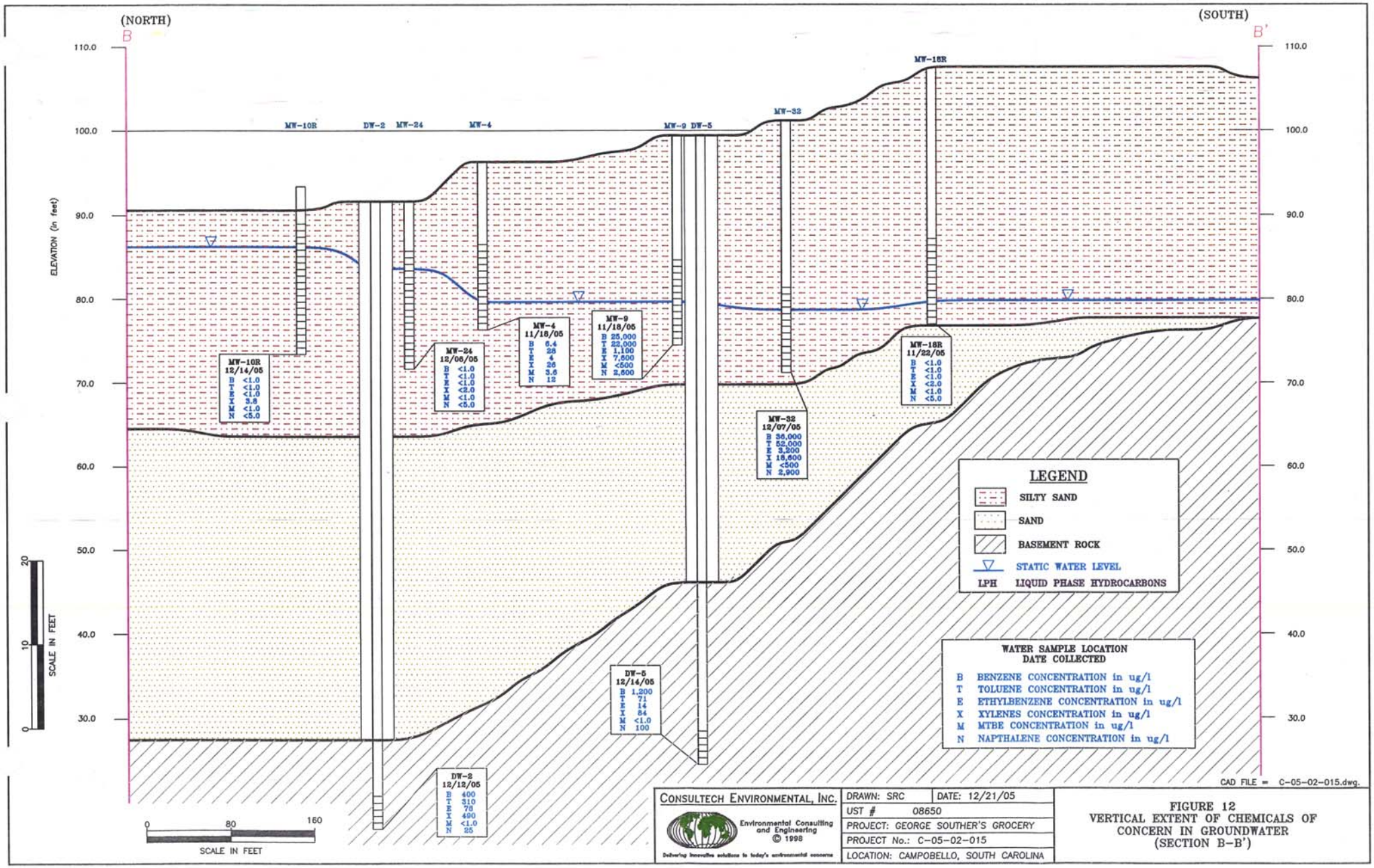
UST # 08650	
PROJECT: GEORGE SOUTHER'S GROCERY	
PROJECT No.: C-05-02-015	
LOCATION: CAMPOBELLO, SOUTH CAROLINA	

FIGURE 11
VERTICAL EXTENT OF CHEMICALS OF CONCERN IN GROUNDWATER
(SECTION A-A')



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UST # 08650	
PROJECT: GEORGE SOUTHER'S GROCERY	
PROJECT No.: C-05-02-015	
LOCATION: CAMPOBELLO, SOUTH CAROLINA	

FIGURE 12
VERTICAL EXTENT OF CHEMICALS OF CONCERN IN GROUNDWATER
(SECTION B-B')

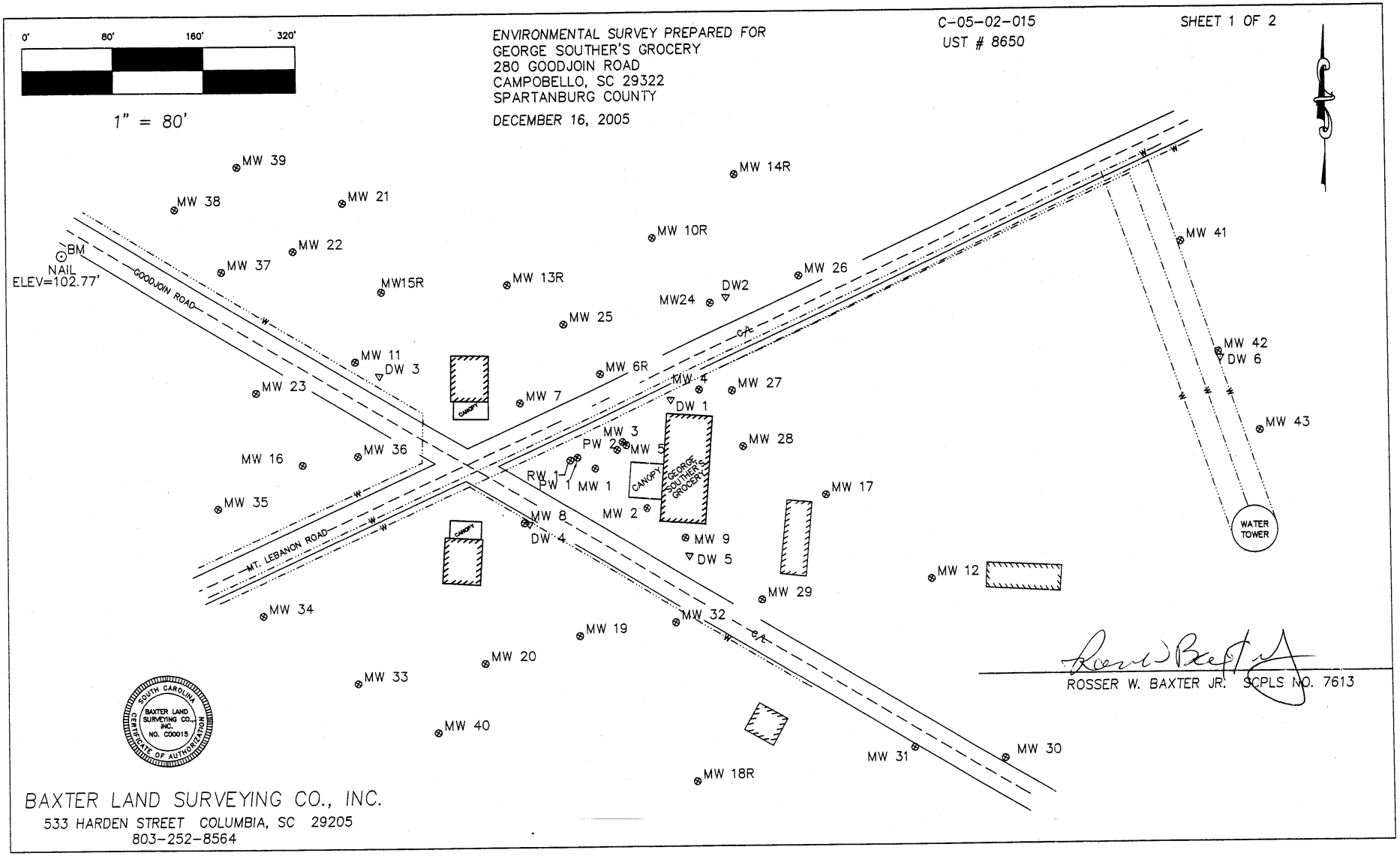
APPENDIX 1
Survey Plat

ENVIRONMENTAL SURVEY PREPARED FOR
GEORGE SOUTHER'S GROCERY
280 GOODJOIN ROAD
CAMPOBELLO, SC 29322
SPARTANBURG COUNTY

DECEMBER 16, 2005

C-05-02-015
UST # 8650

SHEET 1 OF 2



ROSSER W. BAXTER JR. SCPLS NO. 7613

BAXTER LAND SURVEYING CO., INC.
533 HARDEN STREET COLUMBIA, SC 29205
803-252-8564

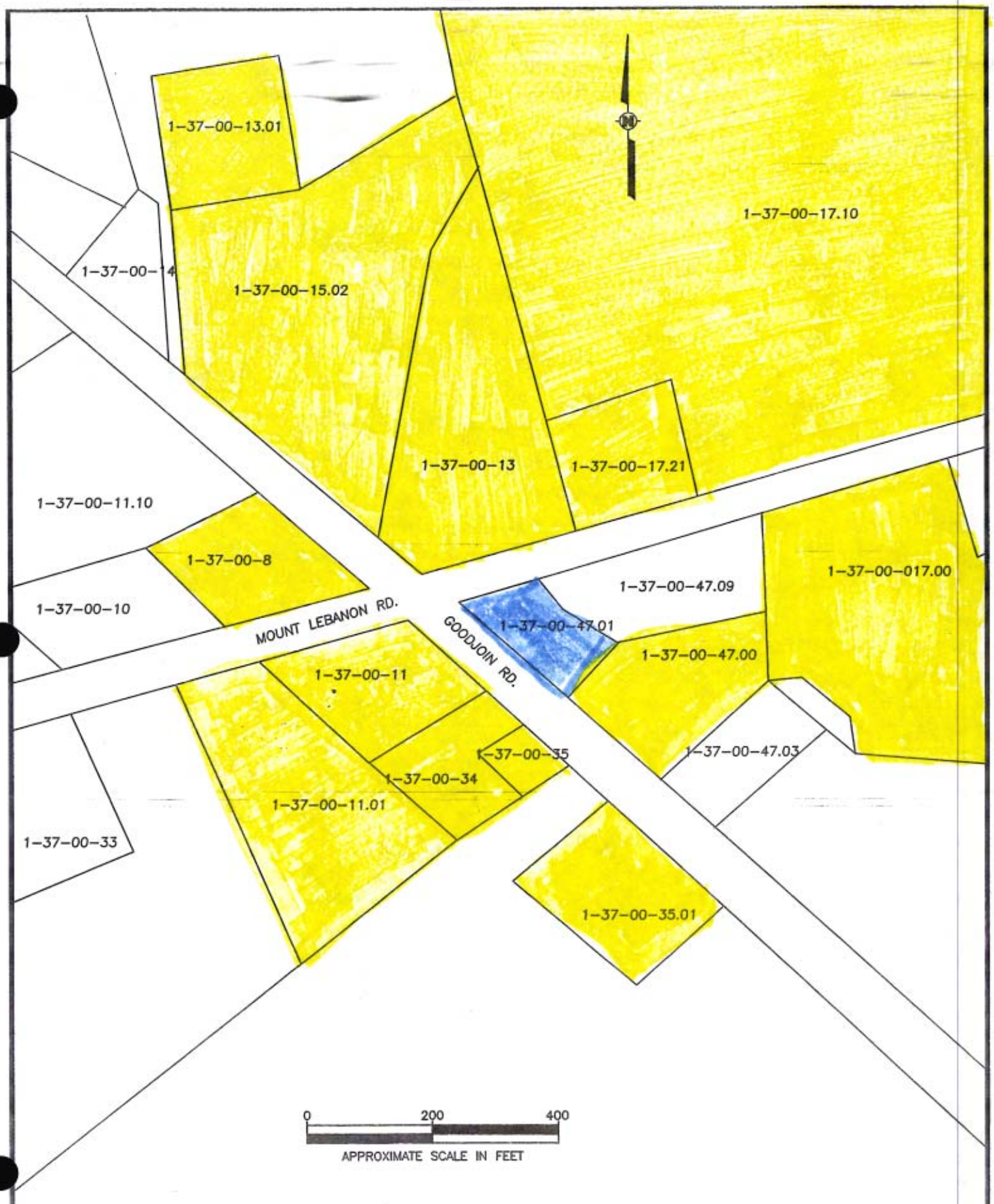
MW1	97.56'	MW20	107.20'	MW38	99.60'
MW2	99.82'	MW21	88.91'	MW39	94.98'
MW3	97.11'	MW22	93.34'	MW40	110.46'
MW4	91.48'	MW23	100.07'	MW41	102.02'
MW5	97.69'	MW24	92.02'	MW42	101.91'
MW6R	91.98'	MW25	92.81'	MW43	93.34'
MW7	100.07'	MW26	89.42'	DW1	92.89'
MW8	99.76'	MW27	91.80'	DW2	91.95'
MW9	99.82'	MW28	93.10'	DW3	101.41'
MW10R	89.88'	MW29	99.81'	DW4	99.80'
MW11	101.58'	MW30	103.50'	DW5	98.64'
MW12	95.31'	MW31	101.05'	DW6	101.86'
MW13R	93.29'	MW32	101.72'	RW1	96.62'
MW14R	85.39'	MW33	109.05'	PW1	96.59'
MW15R	91.30'	MW34	106.31'	PW2	97.77'
MW16	99.09'	MW35	105.02'		
MW17	100.26'	MW36	98.99'		
MW18R	107.22'	MW37	98.21'		
MW19	104.69'				

SOUTH CAROLINA
BAXTER LAND SURVEYING CO., INC.
NO. C00015
CERTIFICATE OF AUTHORIZATION

BAXTER LAND SURVEYING CO., INC.
533 HARDEN STREET COLUMBIA, SC 29205
803-252-8564

ROSSER W. BAXTER JR. SCPLS NO. 7613

APPENDIX 2
Tax Map and Surrounding Property Owners



DRAWN: SRC	DATE: 09/06/05	ACCESS MAP	CONSULTECH ENVIRONMENTAL, INC.
UST #: 08650			Environmental Consulting and Engineering © 1999
PROJECT: GEORGE SOUTHER'S GROCERY			Delivering innovative solutions to today's environmental concerns
PROJECT No.: C-05-02-015			
LOCATION: CAMMPOBELLO, SOUTH CAROLINA			

Adjacent Property Owners
George Souther's Grocery – UST # 08650
Campobello, SC
Spartanburg County

Tax map and parcel #		Owner name and address
1-37-00-008.00		Ronnie Joe Sitton 1310 Mt. Lebanon Road Campobello, SC 29322
1-37-00-11.0		Becky Arms 143 Goodjoin Road Landrum, SC 29356 295 Goodjoin Rd. Campobello, SC 29322
1-37-00-013.00		James B. Williams, Jr. 885 Goodjoin Road Campobello, SC 29322
1-37-00-017.00		Earlene P. Lance 207 Lakewood Drive Kannapolis, NC 28081
1-37-00-017.21		Marvin E. & Alma D. Glen 1250 Mt. Lebanon Road Campobello, SC 29322
1-37-00-034.00		Annie L. Frady Wolfe 275 Goodjoin Road Campobello, SC 29322
1-37-00-035.00		Annie L. Frady Wolfe 275 Goodjoin Road Campobello, SC 29322
1-37-00-047.00		James Samuel Bruce P.O. Box 219 Lyman, SC 29365
1-37-00-047.01	**SITE**	George E. Souther 280 Goodjoin Road Campobello, SC 29322
1-37-00-011.01		Jessie C. Wright 137 Turner Barton Rd. Landrum SC 29356
1-37-00-14		Leroy Belcher 330 Goodjoin Rd.
1-37-00-11.10		Jimmy McClain 325 Goodjoin Rd.
1-37-00-17.10		Boyd Belcher 320 Goodjoin Rd.
1-37-00-10		Janice Burnett 1330 Mt. Lebanon Rd.
1-37-00-33		Helyn Sitton 1355 Mt. Lebanon Rd.
1-37-00-35.01		Carolyn Souther 195 Goodjoin Rd.
1-37-00-36.05		George Souther 135 Goodjoin Rd.
1-37-00-47.03		Frankie Bullington 190 Goodjoin Rd.
1-37-00-48.01		Piedmont Rural H2O Co. 198 Goodjoin Rd.

CONSULTECH ENVIRONMENTAL, INC.

Consulting Engineers, Geologists & Scientists

PERMISSION TO ENTER PROPERTY

I, _____, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant _____, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located at _____, for the purpose of performing an environmental assessment, as requested by _____ which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed two to three years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property.

At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Kenneth L Brooke
Company/Client Representative

11/11/05
Date

Agreed and Consented to giving access:

Becky Arms
Property Owner's Signature

Access Denied:

_____
Property Owner's Signature

Becky Arms
Printed Name

Consultech Environmental, Inc.
Telephone Number (678) 377-0400
Fax Number (678) 377-0051

D H E C

PROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

BUREAU OF LAND AND WASTE MANAGEMENT
UNDERGROUND STORAGE TANK PROGRAM
2600 Bull Street
Columbia, SC 29201
Telephone (803) 896-6240

RIGHT OF ENTRY

I, JAMES B. WILLIAMS JR certify that I am the legal owner or the authorized representative for _____ (owner) of the property described below. I have witnessed the planned locations / have been provided a sketch map indicating the location(s) of the work to be performed. Permission is hereby granted to George Souther and/or the South Carolina Department of Health and Environmental Control (SCDHEC) and its agents to enter the referenced property for the following purposes:

Name of Facility (if appropriate) : J B WILLIAMS & SON

Street Address : 300 GOODJOIN RD

City, State, ZIP : CAMPOBELLO SC 29322

1) Drilling of screening points. The work will be properly abandoned upon completion, and no permanent effects shall remain on site.

2) Installing 1 monitoring / recovery well(s). I understand that these wells will remain with the property until cleanup is complete. Additionally, SCDHEC or its agents will access the property at reasonable times for measurement and/or collection of samples. The monitoring wells will be properly abandoned upon completion of remediation activities.

NAME (Please print) : JAMES B. WILLIAMS JR

SIGNATURE James B Williams Jr

WITNESS : Frances N. Williams

DATE _____ Mo 4 Day 22 Year 05

Reference UST Permit #08650

RECEIVED
APR 25 2005
UNDERGROUND STORAGE TANK PROGRAM

KWD

CONSULTECH ENVIRONMENTAL, INC.

Consulting Engineers, Geologists & Scientists

PERMISSION TO ENTER PROPERTY

I, Alma Darlene Glenn hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant **SCDHEC**, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located **Spartanburg County Tax Parcel Number 1-37-00-017.21**, for the purpose of performing an environmental assessment, as requested by **SCDHEC** which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Jessica Guthrie
Company Representative

2-22-05
Date

Consultech Environmental, Inc.
Telephone Number (678) 377-0400
Fax Number (678) 377-0051

Agreed and Consented to giving access:

A Darlene Glenn
Property Owner's Signature

A. Darlene Glenn
Printed Name

Access Denied:

Property Owner's Signature

Printed Name

CONSULTECH ENVIRONMENTAL, INC.

PERMISSION TO ENTER PROPERTY

I, Earlene P. Adams, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant **SCDHEC**, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located **Spartanburg County Tax Parcel Number 1-37-00-017.00**, for the purpose of performing an environmental assessment, as requested by **SCDHEC** which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Carey Evans
Company Representative

4-12-05
Date

Consultech Environmental, Inc.
Telephone Number (678) 377-0400
Fax Number (678) 377-0051

Agreed and Consented to giving access:

Earlene P. Adams
Property Owner's Signature

Earlene P. Adams
Printed Name

Access Denied:

_____
Property Owner's Signature

_____
Printed Name

D H E C

PROMOTE PROTECT PRESERVE

South Carolina Department of Health and Environmental Control

RECEIVED
MAY 0 2 2005
UNDERGROUND STORAGE TANK PROGRAM

BUREAU OF LAND AND WASTE MANAGEMENT
UNDERGROUND STORAGE TANK PROGRAM
2600 Bull Street
Columbia, SC 29201
Telephone (803) 896-6240

RECEIVED
MAY 0 6 2005
UNDERGROUND STORAGE TANK PROGRAM

RIGHT OF ENTRY

I, Tina Wolfe certify that I am the ~~legal owner~~ or the authorized representative for Christ Fredy Wolfe (owner) of the property described below. I have witnessed the planned locations / have been provided a sketch map indicating the location(s) of the work to be performed. Permission is hereby granted to George Souther and/or the South Carolina Department of Health and Environmental Control (SCDHEC) and its agents to enter the referenced property for the following purposes:

Name of Facility (if appropriate) : Residence

Street Address : 275 Goodjoin Rd.

City, State, ZIP : Campobello, S.C. 29322

1) Drilling of screening points. The work will be properly abandoned upon completion, and no permanent effects shall remain on site.

2) Installing _____ monitoring / recovery well(s). I understand that these wells will remain with the property until cleanup is complete. Additionally, SCDHEC or its agents will access the property at reasonable times for measurement and/or collection of samples. The monitoring wells will be properly abandoned upon completion of remediation activities.

NAME (Please print) : Tina Wolfe

SIGNATURE : Tina Wolfe

WITNESS : _____

DATE : 5 Mo 04 Day 2005 Year

Reference UST Permit #08650

015

Kmd

CONSULTECH ENVIRONMENTAL, INC.

Consulting Engineers, Geologists & Scientists

PERMISSION TO ENTER PROPERTY

I, S. BRUCE JAMES, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant **SCDHEC**, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located **Spartanburg County Tax Parcel Number 1-37-00-047.00**, for the purpose of performing an environmental assessment, as requested by **SCDHEC** which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Jessica Guthrie
Company Representative

2-22-05
Date

Consultech Environmental, Inc.
Telephone Number (678) 377-0400
Fax Number (678) 377-0051

Agreed and Consented to giving access:

S Bruce James
Property Owner's Signature

S. BRUCE JAMES
Printed Name

Access Denied:

Property Owner's Signature

Printed Name

CONSULTECH ENVIRONMENTAL, INC.

Consulting Engineers, Geologists & Scientists

PERMISSION TO ENTER PROPERTY

I, _____, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant **SCDHEC**, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located **Spartanburg County Tax Parcel Number 1-37-00-047.01**, for the purpose of performing an environmental assessment, as requested by **SCDHEC** which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

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This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Jessica Guthrie
Company Representative

2-22-05
Date

Consultech Environmental, Inc.
Telephone Number (678) 377-0400
Fax Number (678) 377-0051

Agreed and Consented to giving access:

George E. Southern
Property Owner's Signature

George E. Southern
Printed Name

Access Denied:

_____
Property Owner's Signature

_____
Printed Name

CONSULTECH ENVIRONMENTAL, INC.

PERMISSION TO ENTER PROPERTY

D.P.O.A. Brenda A Cox

I, Mrs. Jessie C. Wright, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant **SCDHEC**, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located **Spartanburg County Tax Parcel Number 1-37-00-011.01** for the purpose of performing an environmental assessment, as requested by **SCDHEC** which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Carey Evans
Company Representative

7-27-05
Date

Consultech Environmental, Inc.
Telephone Number (678) 377-0400
Fax Number (678) 377-0051
C-015

08-02-05

Agreed and Consented to giving access:

D.P.O.A.
Jessie C. Wright Brenda A Cox
Property Owner's Signature

JESSIE C. WRIGHT By Brenda A Cox
Printed Name

(864) 895-5795

Access Denied:

Property Owner's Signature

Printed Name

CONSULTECH ENVIRONMENTAL, INC.

PERMISSION TO ENTER PROPERTY

I, Boyd Belcher, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant **SCDHEC**, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located **Spartanburg County Tax Parcel Number 1-37-00-17.10, 1-37-00-15.02, 1-37-00-13.01**, for the purpose of performing an environmental assessment, as requested by **SCDHEC** which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Carey Evans
Company Representative

9-9-05
Date

Consultech Environmental, Inc.
Telephone Number (678) 377-0400
Fax Number (678) 377-0051
C-015

Agreed and Consented to giving access:

Boyd Belcher
Property Owner's Signature

BOYD BELCHER
Printed Name

Access Denied:

Property Owner's Signature

Printed Name

CONSULTECH ENVIRONMENTAL, INC.

PERMISSION TO ENTER PROPERTY

I, _____, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant **SCDHEC**, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located **Spartanburg County Tax Parcel Number 1-37-00-35.01**, for the purpose of performing an environmental assessment, as requested by **SCDHEC** which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Carey Evans
Company Representative

9-9-05
Date

Consultech Environmental, Inc.
Telephone Number (678) 377-0400
Fax Number (678) 377-0051
C-015

Agreed and Consented to giving access:

Carolyn Sorrher
Property Owner's Signature

Carolyn Sorrher
Printed Name

Access Denied:

_____
Property Owner's Signature

_____
Printed Name

APPENDIX 3
Soil Boring Logs and Monitoring Well Construction Details

APPENDIX 3
Soil Boring Logs and Monitoring Well Construction Details

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-01	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 30-Aug-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 20'
DRILLING COMPANY: Bear Environmental	BORING: SB-01
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 16'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4			102		Red sandy clay
8			107		Red sandy clay
12			222		Red sandy silt
* 16			891		Red silty sand
20			691		Dark red sandy silt

H2O 16

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-02	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 30-Aug-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 24'
DRILLING COMPANY: Bear Environmental	BORING: SB-02
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 16'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4			0.5		Red sandy clay
8			0.6		Red silty sand
12			2.9		Red / white sand
16			10.7		White silty sand
20			15.8		Red silty sand
* 22			7.9		Red silty sand
24			8.1		Red silty sand

H2O 16

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-03	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 31-Aug-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 24'
DRILLING COMPANY: Bear Environmental	BORING: SB-03
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 16'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4			0.7		Red sandy clay
8			0.6		Red sandy silt
12			0.4		Red / white sand
16			4.3		White silty sand
20			5.1		Red silty sand
* 22			3.1		Red silty sand
24			2.6		Red silty sand
					H2O 16

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-04	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 31-Aug-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 20'
DRILLING COMPANY: Bear Environmental	BORING: SB-04
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC:
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4				0.7		Red sandy clay
8				0.7		Red silty sand
12				1.1		Red silty sand
16				1.2		Brown silty sand
20				0.5		White rock - REFUSAL
						H2O

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-05	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 31-Aug-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 18'
DRILLING COMPANY: Bear Environmental	BORING: SB-05
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: DRY
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4				0.5		Red sandy clay
8				0.6		Red sandy silt
12				0.9		Brown silty sand
16				1.1		Brown sand w/ rock layers (saprolite)
18				0.9		Rock - REFUSAL
						H2O

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-06	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 31-Aug-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 19'
DRILLING COMPANY: Bear Environmental	BORING: SB-06
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: DRY
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4				0.7		Red sandy clay
8				0.9		Red sandy silt
12				0.8		Brown silty sand
16				1.2		Brown sand w/ rock layers (saprolite)
19				0.7		Rock - REFUSAL
						H2O

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-07	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 31-Aug-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 18'
DRILLING COMPANY: Bear Environmental	BORING: SB-07
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: DRY
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4				1.1		Red sandy clay
8				1.1		Red sandy silt
12				0.9		Brown silty sand
16				1.1		Brown sand w/ rock layers (saprolite)
18				0.9		Rock - REFUSAL
						H2O

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-08	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 31-Aug-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 20'
DRILLING COMPANY: Bear Environmental	BORING: SB-08
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 16'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4				0.7		Red sandy clay
8				3.2		Red sandy silt
12				107		Beige / green silty sand
* 16				498		Red / grey silty sand
20				313		Grey sand
						H2O 16'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-09	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 31-Aug-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 20'
DRILLING COMPANY: Bear Environmental	BORING: SB-09
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 16'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4				0.5		Red sandy clay
8				0.5		Red sandy silt
12				56.8		Brown / green silty sand
* 16				58.2		Grey silty sand
20				112		Grey sand
						H2O 16'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-10	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 31-Aug-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 22'
DRILLING COMPANY: Bear Environmental	BORING: SB-10
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 16'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4				0.8		Red sandy clay
8				0.7		Red sandy silt
12				1.4		Brown silty sand
* 16				4.3		Brown silty sand
20				3.7		Beige silty sand
22				1.9		Red sand - REFUSAL
						H2O 16'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-11	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 31-Aug-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 20'
DRILLING COMPANY: Bear Environmental	BORING: SB-11
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 16'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4				158		Red sandy clay
8				239		Red sandy silt
12				47.4		Red silty sand
* 16				149		Red silty sand
20				101		Beige silty sand
						H2O 16'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-12	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 31-Aug-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 24'
DRILLING COMPANY: Bear Environmental	BORING: SB-12
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 20'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4				1.2		Red sandy clay
8				3.4		Red silty sand
12				15.8		Beige sand
16				21.7		Red / white silty sand
* 20				1.1		Red silty sand
24				19.9		Brown silty sand
						H2O 20'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-13	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 31-Aug-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 24'
DRILLING COMPANY: Bear Environmental	BORING: SB-13
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 20'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4				1.6		Red sandy clay
8				2.1		Red silty sand
12				6.4		Beige sand
16				6.6		Beige silty sand
* 20				3.1		Red silty sand
24				1.9		Brown silty sand
						H2O 20'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-14	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 31-Aug-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 20'
DRILLING COMPANY: Bear Environmental	BORING: SB-14
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 18'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4				0.9		Red sandy clay
8				0.7		Red sandy silt
12				1.8		Red silty sand
16				1.2		Red silty sand
* 18				1.6		Beige silty sand
20				2.4		Beige silty sand
						H2O 18'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-15	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 31-Aug-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 20'
DRILLING COMPANY: Bear Environmental	BORING: SB-15
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 18'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4				0.7		Red sandy clay
8				0.9		Red sandy silt
12				1.4		Red sandy silt
16				1.8		Red silty sand
* 18				1.9		Beige silty sand
20				2.6		Beige silty sand
						H2O 18b'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-16	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 31-Aug-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 20'
DRILLING COMPANY: Bear Environmental	BORING: SB-16
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 18'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4				1.1		Red sandy clay
8				0.9		Red silty sand
12				1.3		Red silty sand
16				1.4		Red silty sand
* 18				1.9		Beige silty sand
20				2.2		Beige silty sand
						H2O 18b'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-17	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 1-Sep-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 20'
DRILLING COMPANY: Bear Environmental	BORING: SB-17
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 16'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4				1.1		Red sandy clay
8				2.4		Red sandy silt
12				3.8		Red silty sand
* 16				12.4		Beige silty sand
20				21.5		Brown silty sand
						H2O 16'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-18	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 1-Sep-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 20'
DRILLING COMPANY: Bear Environmental	BORING: SB-18
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 16'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4				0.9		Red sandy clay
8				2.8		Red sandy silt
12				3.4		Red silty sand
* 16				5.4		Beige silty sand
20				6.1		Brown silty sand
						H2O 16'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-19	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 1-Sep-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 12'
DRILLING COMPANY: Bear Environmental	BORING: SB-19
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 8'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

	DEPTH (ft)	SAMPLE NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
	4			0.3		Brown silty sand
*	8			1.8		Brown silty sand
	12			5.7		Brown silty sand
						H2O 8'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-20	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 1-Sep-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 12'
DRILLING COMPANY: Bear Environmental	BORING: SB-20
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 8'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4				0.7		Brown silty sand
* 8				1.4		Brown silty sand
12				1.9		Brown silty sand
						H2O 8'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-21	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 1-Sep-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 12'
DRILLING COMPANY: Bear Environmental	BORING: SB-21
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 8'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

	DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
	4				0.9		Brown silty sand
*	8				1.1		Brown silty sand
	12				2.8		Brown silty sand
							H2O 8'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-22	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 1-Sep-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 16'
DRILLING COMPANY: Bear Environmental	BORING: SB-22
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 12'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4				1.8		Red sandy clay
8				2.4		Red silty sand
* 12				16.2		Red silty sand
16				19.7		Brown silty sand
						H2O 12'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-23	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 1-Sep-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 16'
DRILLING COMPANY: Bear Environmental	BORING: SB-23
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 12'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

	DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
	4				1.4		Red sandy clay
	8				3.8		Red silty sand
*	12				5.1		Red silty sand
	16				6.1		Brown silty sand
							H2O 12'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-24	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 1-Sep-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 16'
DRILLING COMPANY: Bear Environmental	BORING: SB-24
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 12'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

	DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
	4				1.7		Red sandy clay
	8				2.5		Red silty sand
*	12				2.4		Red silty sand
	16				4.1		Brown silty sand
							H2O 12'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-25	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 20-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 54'
DRILLING COMPANY: Bear Environmental	BORING: SB-25
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 20'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5			0.4		Red sandy clay
10			0.5		Red silty sand
15			0.8		Red silty sand
20			365		Red silty sand
25			138		Red clayey silt - very wet - soupy
30			12.4		Brown silty sand - soupy wet
35			18.2		Dark brown silt sand - soupy wet
40			7.4		Dark brown silty sand w/ saprolite
45			4.1		Red brown silty sand
50			4.4		Red brown silty sand
54			3.8		Hard fine sand - crushed rock - Refusal
					H2O 20'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-26	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 20-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 49'
DRILLING COMPANY: Bear Environmental	BORING: SB-26
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 20'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				70.2		Red sandy clay
10				395		Red silty sand
15				899		Red silt
20				364		Red brown silty sand
25				222		Brown sand- very wet - soupy
30				727		Dark brown sand w/ gravel - soupy wet
35				198		Dark brown silt sand - soupy wet
40				14.8		Dark brown silty sand w/ small gravel
45				12.6		Red brown silty sand
49				6.7		Red brown silty sand
						H2O 20'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-27	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 20-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 58'
DRILLING COMPANY: Bear Environmental	BORING: SB-27
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 20'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5			1.3		Red silty sand
10			12.5		Red silty sand
15			24.3		Brown silty sand
20			87.3		Brown silty sand
25			218		Red sand
30			268		Red silty sand
35			557		Red / white sand w/ quartz
40			152		Dark brown silty sand
45			21.8		Red brown silty sand
50			5.3		Red brown silty sand
55			4.9		Brown sand w/ gravel
58			4.9		Brown hard sand - refusal
					H2O 20'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-28	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 20-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 25'
DRILLING COMPANY: Bear Environmental	BORING: SB-28
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 16'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5			1.8		Red clayey sand
10			5.4		Red silty sand
15			9.3		Red silty sand
20			14.6		Brown silty sand
25			11.3		Red sand
					H2O 16'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-29	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 20-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 25'
DRILLING COMPANY: Bear Environmental	BORING: SB-29
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 16'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				2.3		Red clayey sand
10				1.7		Red silty sand
15				3.4		Red silty sand
20				4.2		Brown silty sand
25				1.9		Red sand
						H2O 16'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-30	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 20-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 25'
DRILLING COMPANY: Bear Environmental	BORING: SB-30
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 16'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				9.4		Red clayey sand
10				18.4		Red silty sand
15				211		Red silty sand
20				145		Red silty sand
25				38.7		Red sand
						H2O 16'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-31	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 20-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 25'
DRILLING COMPANY: Bear Environmental	BORING: SB-31
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 16'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				2.3		Red silty sand
10				1.9		Red silty sand
15				10.3		Red silty sand
20				6.5		Red silty sand
25				3.1		Brown sand
						H2O 16'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-32	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 20-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 25'
DRILLING COMPANY: Bear Environmental	BORING: SB-32
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 16'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				2.1		Red silty sand
10				2.4		Red silty sand
15				1.7		Red silty sand
20				3.1		Red silty sand
25				2.6		Brown sand
						H2O 16'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-33	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 21-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 20'
DRILLING COMPANY: Bear Environmental	BORING: SB-33
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 14'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				3.5		Red silty sand
10				7.3		Red brown sand
15				142		Red silty sand
20				27.9		Red silty sand
						H2O 14'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-34	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 21-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 20'
DRILLING COMPANY: Bear Environmental	BORING: SB-34
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 14'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				3.9		Red silty sand
10				148		Red brown sand
15				537		Red silty sand
20				241		Red silty sand
						H2O 14'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-35	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 21-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 51'
DRILLING COMPANY: Bear Environmental	BORING: SB-35
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 11'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				44.5		Red silty sand
10				657		Red silty sand
15				918		Red/brown sand - wet
20				747		Brown sand with small gravel - very wet
25				59.3		Red silty sand
30				22.3		Red silty sand - soupy
35				169		Red / white sand with some gravel
40				16.2		Brown sand
45				9.4		Brown sand
50				6.7		Red / brown silty sand - very hard
51				6.3		Refusal

H2O 11'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-36	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 25-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 62'
DRILLING COMPANY: Bear Environmental	BORING: SB-36
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 11'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				4.2		Red silty sand
10				298		Red silty sand
15				467		Red/brown sand - wet
20				55.6		Red silty sand
25				142		Red brown sand with some small gravel
30				19		Red silty sand - soupy
35				4.6		Red sand
40				4.9		Brown sand
45				4.6		Brown sand
50				6.1		Brown silty sand
55				3.7		Red sand with some gravel
60				4.1		Red/White sand, very hard
62				3.8		Refusal
						H2O 11'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-37	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 25-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 15'
DRILLING COMPANY: Bear Environmental	BORING: SB-37
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 10'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5			2.5		Red silty sand
* 10			4.1		Red silty sand
15			2.3		Red silty sand
					H2O 10'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-38	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 25-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 15'
DRILLING COMPANY: Bear Environmental	BORING: SB-38
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 10'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

	DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
	5				2.1		Red sandy silt
*	10				2.5		Red silty sand
	15				2.3		Red silty sand
							H2O 10'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-39	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 25-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 15'
DRILLING COMPANY: Bear Environmental	BORING: SB-39
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 10'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.9		Red silty sand
* 10				2.8		Red silty sand
15				2.5		Brown sand
						H2O 10'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-40	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 25-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 15'
DRILLING COMPANY: Bear Environmental	BORING: SB-40
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 10'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

	DEPTH (ft)	SAMPLE NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
	5			2		Red silty sand
*	10			2.3		Red silty sand
	15			2.3		Red silty sand
						H2O 10'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-41	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 25-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 15'
DRILLING COMPANY: Bear Environmental	BORING: SB-41
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 10'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				3.1		Red silty sand
* 10				12.7		Red silty sand
15				4.9		Red silty sand
						H2O 10'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-42	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 25-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 15'
DRILLING COMPANY: Bear Environmental	BORING: SB-42
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 10'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.9		Red silty sand
* 10				3.1		Red silty sand
15				2.7		Red silty sand
						H2O 10'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-43	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 31-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 35'
DRILLING COMPANY: Bear Environmental	BORING: SB-43
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 35'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5			1.6		Red silty sand
10			2.4		Brown silty sand
15			2.4		Brown silty sand with layers of white sand
20			2.8		Brown/Orange silty sand
25			2.6		Red silty sand
30			1.8		Red silty sand
* 35			2.1		Red silty sand
					H2O 35'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-44	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 31-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 35'
DRILLING COMPANY: Bear Environmental	BORING: SB-44
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 35'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5			3		Red silty sand
10			3.3		Red silty sand
15			3.7		Red silty sand
20			4		Brown silty sand
25			3.4		Brown silty sand
30			3.3		White clayey sand with small gravel
* 35			3.1		Red silty sand
					H2O 35'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-45	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 31-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 35'
DRILLING COMPANY: Bear Environmental	BORING: SB-45
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 35'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5			2.8		Red silty sand
10			2.9		Red silty sand
15			3.4		Brown silty sand
20			2.7		Brown silty sand
25			3.4		White clayey sand with small gravel
30			3.3		Red silty sand
* 35			3.1		Brown silty sand - getting very hard
					H2O 35'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-01	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 1-Sep-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 20'
DRILLING COMPANY: Bear Environmental	BORING: GW-01
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 18'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5						
10						
15						
20						DPT groundwater sample collected - no soil samples collected
						H2O 18'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-02	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 1-Sep-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: GW-02
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 26'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5						
10						
15						
20						
25						
30						DPT groundwater sample collected - no soil samples collected
						H2O 26'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-03	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 1-Sep-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 24'
DRILLING COMPANY: Bear Environmental	BORING: GW-03
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 20'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5						
10						
15						
20						
24						DPT groundwater sample collected - no soil samples collected
						H2O 20'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-04	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 2-Sep-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 16'
DRILLING COMPANY: Bear Environmental	BORING: GW-04
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 12'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5						
10						
15						
16						DPT groundwater sample collected - no soil samples collected
						H2O 12'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-05	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 2-Sep-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 27'
DRILLING COMPANY: Bear Environmental	BORING: GW-05
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 23'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5						
10						
15						
20						
25						
27						DPT groundwater sample collected - no soil samples collected
						H2O 23'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-06	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 2-Sep-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 18'
DRILLING COMPANY: Bear Environmental	BORING: GW-06
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 14'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5						
10						
15						
18						DPT groundwater sample collected - no soil samples collected
						H2O 14'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-07	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 2-Sep-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 18'
DRILLING COMPANY: Bear Environmental	BORING: GW-07
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 14'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5						
10						
15						
18						DPT groundwater sample collected - no soil samples collected
						H2O 14'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-08	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 20-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 24'
DRILLING COMPANY: Bear Environmental	BORING: GW-08
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 20'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5						
10						
15						
20						
24						DPT groundwater sample collected - no soil samples collected
						H2O 20'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-09	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 20-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 24'
DRILLING COMPANY: Bear Environmental	BORING: GW-09
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 20'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5					
10					
15					
20					
24					DPT groundwater sample collected - no soil samples collected
					H2O 20'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-10	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 20-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 28'
DRILLING COMPANY: Bear Environmental	BORING: GW-10
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 24'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5						
10						
15						
20						
25						
28						DPT groundwater sample collected - no soil samples collected
						H2O 24'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-11	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 21-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 28'
DRILLING COMPANY: Bear Environmental	BORING: GW-11
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 24'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5						
10						
15						
20						
25						
28						DPT groundwater sample collected - no soil samples collected
						H2O 24'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-12	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 21-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 17'
DRILLING COMPANY: Bear Environmental	BORING: GW-12
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 12'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5						
10						
15						
17						DPT groundwater sample collected - no soil samples collected
						H2O 12'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-13	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 21-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 15'
DRILLING COMPANY: Bear Environmental	BORING: GW-13
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 11'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5						
10						
15						DPT groundwater sample collected - no soil samples collected
						H2O 11'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-14	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 21-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 15'
DRILLING COMPANY: Bear Environmental	BORING: GW-14
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 11'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5						
10						
15						DPT groundwater sample collected - no soil samples collected
						H2O 11'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-15	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 21-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 15'
DRILLING COMPANY: Bear Environmental	BORING: GW-15
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 11'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5						
10						
15						DPT groundwater sample collected - no soil samples collected
						H2O 11'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-16	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 31-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 39'
DRILLING COMPANY: Bear Environmental	BORING: GW-16
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 39'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5					
10					
15					
20					
25					
30					
35					
39					DPT groundwater sample collected - no soil samples collected
					H2O 39'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-17	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 31-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 39'
DRILLING COMPANY: Bear Environmental	BORING: GW-17
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 39'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5						
10						
15						
20						
25						
30						
35						
39						DPT groundwater sample collected - no soil samples collected
						H2O 39'

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

PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: SCDHEC

Address: 2600 Bull Street

City: Columbia State: SC Zip: 29201-1708

Telephone: Work: (803) 898-4300 Home:

2. LOCATION OF WELL: MW-6R **COUNTY: Spartanburg**
Name: George Souther's Grocery

Street Address: 280 Goodjoin Road
City: Campobello, SC Zip: 29322

Latitude: 35° 03' 46" Longitude: 82° 10' 59"

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
Red Silty Sand	17	17
* Indicate Water Bearing Zones Use a 2nd sheet if needed		

5. REMARKS:

6. PERMIT NUMBER: UMW -19055 MW-6R

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

8. WELL DEPTH (completed) Date Started: 11/07/05

17 ft Date Completed: 11/07/05

9. TYPE [ ] Mud Rotary [ ] Jetted [ ] Bored
[ ] Dug [ ] Air Rotary [ ] Driven
[ ] Cable Tool [X] Hollow Stem Auger

10. CASING: [X]Threaded [ ] Welded
Diam.: 2"
Type: [X] PVC [ ] Galvanized
[ ] Steel [ ] Other
0 in. to 2 ft depth
____ in. to ____ ft depth

Height: Above/Below
Surface Flush ft
Weight____ lb/ft
Drive Shoe? [ ] Yes [ ] No

11. SCREEN
Type____ PVC Diam.: 2"
Slot/Gauge: 0.010 Length: 15 ft
Set Between: 2 ft and 17 ft **NOTE: MULTIPLE SCREENS**
____ ft and ____ ft **USE SECOND SHEET**

Sieve Analysis [ ] Yes (please enclose) [ ] No

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

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. ARTIFICAL FILTER (filter pack) [X] Yes [ ] No
Installed from 1 ft. to 17 ft
Effective size 20/30 Uniformity

16. WELL GROUTED? [X] Yes [ ] No
[ ] Neat Cement [ ] Bentonite [X] Bentonite/Cement [ ] Other ____
Depth: From 0 ft to 1

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: James Wilson CERT. NO: 1612
Address: 1800 MacLeod Dr. Ste F, Lawrenceville, GA 30043
Telephone No.: 678 377 0400 Fax No.: 678 377 0051

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

Signed: James A. Wilson Date: 12/19/05
Authorized Representative

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: SCDHEC

Address: 2600 Bull Street

City: Columbia State: SC Zip: 29201-1708

Telephone: Work: (803) 898-4300 Home:

2. LOCATION OF WELL: MW-10R **COUNTY: Spartanburg**
Name: George Souther's Grocery

Street Address: 280 Goodjoin Road
City: Campobello, SC Zip: 29322

Latitude: $35^0 03^1 46^{11}$ Longitude: $82^0 10^1 59^{11}$

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
Red Siltv Sand	17	17

* Indicate Water Bearing Zones

Use a 2nd sheet if needed

5. REMARKS:

6. PERMIT NUMBER: UMW -19055 MW-10R

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

8. WELL DEPTH (completed) Date Started: 11/07/05

17 ft Date Completed: 11/07/05

9. TYPE [ ] Mud Rotary [ ] Jetted [ ] Bored
[ ] Dug [ ] Air Rotary [ ] Driven
[ ] Cable Tool [X] Hollow Stem Auger

10. CASING: [X]Threaded [ ] Welded
Diam.: 2^{11}
Type: [X] PVC [ ] Galvanized
[ ] Steel [ ] Other
0 in. to 2 ft depth
____ in. to ____ ft depth

Height: Above/Below
Surface 3' above ground
Weight ____ lb/ft
Drive Shoe? [ ] Yes [ ] No

11. SCREEN
Type PVC Diam.: 2^{11}
Slot/Gauge: 0.010 Length: 15 ft
Set Between: 2 ft and 17 ft **NOTE: MULTIPLE SCREENS**
____ ft and ____ ft **USE SECOND SHEET**

Sieve Analysis [ ] Yes (please enclose) [ ] No

12. STATIC WATER LEVEL 6 ft below land surface after 24 hrs

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. ARTIFICAL FILTER (filter pack) [X] Yes [ ] No
Installed from 1 ft. to 17 ft
Effective size 20/30 Uniformity

16. WELL GROUTED? [X] Yes [ ] No
[ ] Neat Cement [ ] Bentonite [X] Bentonite/Cement [ ] Other ____
Depth: From 0 ft to 1

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: James Wilson CERT. NO: 1612
Address: 1800 MacLeod Dr. Ste F, Lawrenceville, GA 30043
Telephone No.: 678 377 0400 Fax No.: 678 377 0051

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

Signed: ____ Date: 12/19/05
Authorized Representative

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: SCDHEC
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: (803) 898-4300 Home:

2. LOCATION OF WELL: MW-13R **COUNTY: Spartanburg**
Name: George Souther's Grocery
Street Address: 280 Goodjoin Road
City: Campobello, SC Zip: 29322
Latitude: 35° 03' 46" Longitude: 82° 10' 59"

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
Red Sandy Silt	5	5
Red Silty Sand	12	17

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

5. REMARKS:

6. PERMIT NUMBER: UMW -19055 MW-13R

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

8. WELL DEPTH (completed) Date Started: 11/07/05
17 ft Date Completed: 11/07/05

9. TYPE [] Mud Rotary [] Jetted [] Bored
[] Dug [] Air Rotary [] Driven
[] Cable Tool [X] Hollow Stem Auger

10. CASING: [X]Threaded [] Welded
Diam.: 2"
Type: [X] PVC [] Galvanized
[] Steel [] Other
0 in. to 2 ft depth
____ in. to ____ ft depth

Height: Above/Below
Surface 3' above ground
Weight ____ lb/ft
Drive Shoe? [] Yes [] No

11. SCREEN
Type PVC Diam.: 2"
Slot/Gauge: 0.010 Length: 15 ft
Set Between: 2 ft and 17 ft **NOTE: MULTIPLE SCREENS**
____ ft and ____ ft **USE SECOND SHEET**
Sieve Analysis [] Yes (please enclose) [] No

12. STATIC WATER LEVEL 11 ft below land surface after 24 hrs

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. ARTIFICAL FILTER (filter pack) [X] Yes [] No
Installed from 1 ft. to 17 ft
Effective size 20/30 Uniformity

16. WELL GROUTED? [X] Yes [] No
[] Neat Cement [] Bentonite [X] Bentonite/Cement [] Other ____
Depth: From 0 ft to 1

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: James Wilson CERT. NO: 1612
Address: 1800 MacLeod Dr. Ste F, Lawrenceville, GA 30043
Telephone No.: 678 377 0400 Fax No.: 678 377 0051

20. WATER WELL CONTRACTOR'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: 12/19/05
Authorized Representative

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: SCDHEC

Address: 2600 Bull Street

City: Columbia State: SC Zip: 29201-1708

Telephone: Work: (803) 898-4300 Home:

2. LOCATION OF WELL: MW-14R **COUNTY: Spartanburg**
Name: George Souther's Grocery

Street Address: 280 Goodjoin Road
City: Campobello, SC Zip: 29322

Latitude: 35° 03' 46" Longitude: 82° 10' 59"

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
Red Siltv Sand	17	17
* Indicate Water Bearing Zones Use a 2nd sheet if needed		

5. REMARKS:

6. PERMIT NUMBER: UMW -19055 MW-14R

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

8. WELL DEPTH (completed) Date Started: 11/08/05

17 ft Date Completed: 11/08/05

9. TYPE [ ] Mud Rotary [ ] Jetted [ ] Bored
[ ] Dug [ ] Air Rotary [ ] Driven
[ ] Cable Tool [X] Hollow Stem Auger

10. CASING: [X]Threaded [ ] Welded
Diam.: 2"
Type: [X] PVC [ ] Galvanized
[ ] Steel [ ] Other
0 in. to 2 ft depth
______ in. to ______ ft depth

Height: Above/Below
Surface Flush ft
Weight ______ lb/ft
Drive Shoe? [ ] Yes [ ] No

11. SCREEN
Type PVC Diam.: 2"
Slot/Gauge: 0.010 Length: 15 ft
Set Between: 2 ft and 17 ft **NOTE: MULTIPLE SCREENS**
______ ft and ______ ft **USE SECOND SHEET**

Sieve Analysis [ ] Yes (please enclose) [ ] No

12. STATIC WATER LEVEL 4 ft below land surface after 24 hrs

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. ARTIFICAL FILTER (filter pack) [X] Yes [ ] No
Installed from 1 ft. to 17 ft
Effective size 20/30 Uniformity

16. WELL GROUTED? [X] Yes [ ] No
[ ] Neat Cement [ ] Bentonite [X] Bentonite/Cement [ ] Other ______
Depth: From 0 ft to 1

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: James Wilson CERT. NO: 1612
Address: 1800 MacLeod Dr. Ste F, Lawrenceville, GA 30043
Telephone No.: 678 377 0400 Fax No.: 678 377 0051

20. WATER WELL CONTRACTOR'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: 12/19/05
Authorized Representative

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

PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: SCDHEC

Address: 2600 Bull Street

City: Columbia State: SC Zip: 29201-1708

Telephone: Work: (803) 898-4300 Home:

2. LOCATION OF WELL: MW-15R **COUNTY: Spartanburg**
Name: George Souther's Grocery

Street Address: 280 Goodjoin Road
City: Campobello, SC Zip: 29322

Latitude: $35^0\ 03^1\ 46^{11}$ Longitude: $82^0\ 10^1\ 59^{11}$

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
Red Sandy Silt	7	7
Red Silty Sand	10	17
* Indicate Water Bearing Zones		
Use a 2nd sheet if needed		

5. REMARKS:

6. PERMIT NUMBER: UMW -19055 MW-15R

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

8. WELL DEPTH (completed) Date Started: 11/08/05

17 ft Date Completed: 11/08/05

9. TYPE [ ] Mud Rotary [ ] Jetted [ ] Bored
[ ] Dug [ ] Air Rotary [ ] Driven
[ ] Cable Tool [X] Hollow Stem Auger

10. CASING: [X]Threaded [ ] Welded
Diam.: 2^{11}
Type: [X] PVC [ ] Galvanized
[ ] Steel [ ] Other
0 in. to 2 ft depth
____ in. to ____ ft depth

Height: Above/Below
Surface 3' above ground
Weight____ lb/ft
Drive Shoe? [ ] Yes [ ] No

11. SCREEN
Type____ PVC____ Diam.: 2^{11}
Slot/Gauge: 0.010 Length: 15 ft
Set Between: 2 ft and 17 ft **NOTE: MULTIPLE SCREENS**
____ ft and ____ ft **USE SECOND SHEET**

Sieve Analysis [ ] Yes (please enclose) [ ] No

12. STATIC WATER LEVEL 9 ft below land surface after 24 hrs

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. ARTIFICAL FILTER (filter pack) [X] Yes [ ] No
Installed from 1 ft. to 17 ft
Effective size 20/30 Uniformity

16. WELL GROUTED? [X] Yes [ ] No
[ ] Neat Cement [ ] Bentonite [X] Bentonite/Cement [ ] Other ____
Depth: From 0 ft to 1

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: James Wilson CERT. NO: 1612
Address: 1800 MacLeod Dr. Ste F, Lawrenceville, GA 30043
Telephone No.: 678 377 0400 Fax No.: 678 377 0051

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

Signed: ____ Date: 12/19/05
Authorized Representative

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: SCDHEC

Address: 2600 Bull Street

City: Columbia State: SC Zip: 29201-1708

Telephone: Work: (803) 898-4300 Home:

2. LOCATION OF WELL: MW-18R **COUNTY: Spartanburg**
Name: George Souther's Grocery

Street Address: 280 Goodjoin Road
City: Campobello, SC Zip: 29322

Latitude: 35° 03' 46" Longitude: 82° 10' 59"

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
Red Sandy Clay	10	10
Red to brown Silty Sand	20	30
* Indicate Water Bearing Zones Use a 2nd sheet if needed		

5. REMARKS:

6. PERMIT NUMBER: UMW -19055 MW-18R

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

8. WELL DEPTH (completed) Date Started: 11/10/05

30 ft Date Completed: 11/10/05

9. TYPE [ ] Mud Rotary [ ] Jetted [ ] Bored
[ ] Dug [ ] Air Rotary [ ] Driven
[ ] Cable Tool [X] Hollow Stem Auger

10. CASING: [X]Threaded [ ] Welded
Diam.: 2"
Type: [X] PVC [ ] Galvanized
[ ] Steel [ ] Other
0 in. to 15 ft depth
______ in. to ______ ft depth

Height: Above/Below
Surface Flush ft
Weight ______ lb/ft
Drive Shoe? [ ] Yes [ ] No

11. SCREEN
Type PVC Diam.: 2"
Slot/Gauge: 0.010 Length: 15 ft
Set Between: 15 ft and 30 ft **NOTE: MULTIPLE SCREENS**
______ ft and ______ ft **USE SECOND SHEET**

Sieve Analysis [ ] Yes (please enclose) [ ] No

12. STATIC WATER LEVEL 28 ft below land surface after 24 hrs

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. ARTIFICAL FILTER (filter pack) [X] Yes [ ] No
Installed from 13 ft. to 30 ft
Effective size 20/30 Uniformity

16. WELL GROUTED? [X] Yes [ ] No
[ ] Neat Cement [ ] Bentonite [X] Bentonite/Cement [ ] Other ______
Depth: From 0 ft to 13

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: James Wilson CERT. NO: 1612
Address: 1800 MacLeod Dr. Ste F, Lawrenceville, GA 30043
Telephone No.: 678 377 0400 Fax No.: 678 377 0051

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

Signed: ______ Date: 12/19/05
Authorized Representative

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

PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: SCDHEC

Address: 2600 Bull Street

City: Columbia State: SC Zip: 29201-1708

Telephone: Work: (803) 898-4300 Home:

2. LOCATION OF WELL: MW-26 **COUNTY: Spartanburg**
Name: George Souther's Grocery

Street Address: 280 Goodjoin Road
City: Campobello, SC Zip: 29322

Latitude: $35^0\ 03^1\ 46^{11}$ Longitude: $82^0\ 10^1\ 59^{11}$

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
Red Sandy Clay	8	8
Red to brown Silty Sand	9	17
* Indicate Water Bearing Zones		
Use a 2nd sheet if needed		

5. REMARKS:

6. PERMIT NUMBER: UMW -19055 MW-26

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

8. WELL DEPTH (completed) Date Started: 11/08/05

17 ft Date Completed: 11/08/05

9. TYPE [ ] Mud Rotary [ ] Jetted [ ] Bored
[ ] Dug [ ] Air Rotary [ ] Driven
[ ] Cable Tool [X] Hollow Stem Auger

10. CASING: [X]Threaded [ ] Welded
Diam.: 2^{11}
Type: [X] PVC [ ] Galvanized
[ ] Steel [ ] Other
0 in. to 2 ft depth
____ in. to ____ ft depth

Height: Above/Below
Surface Flush ft
Weight____ lb/ft
Drive Shoe? [ ] Yes [ ] No

11. SCREEN
Type PVC Diam.: 2^{11}
Slot/Gauge: 0.010 Length: 15 ft
Set Between: 2 ft and 17 ft **NOTE: MULTIPLE SCREENS**
____ ft and ____ ft **USE SECOND SHEET**

Sieve Analysis [ ] Yes (please enclose) [ ] No

12. STATIC WATER LEVEL 9 ft below land surface after 24 hrs

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. ARTIFICAL FILTER (filter pack) [X] Yes [ ] No
Installed from 1 ft. to 17 ft
Effective size 20/30 Uniformity

16. WELL GROUTED? [X] Yes [ ] No
[ ] Neat Cement [ ] Bentonite [X] Bentonite/Cement [ ] Other ____
Depth: From 0 ft to 1

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: James Wilson CERT. NO: 1612
Address: 1800 MacLeod Dr. Ste F, Lawrenceville, GA 30043
Telephone No.: 678 377 0400 Fax No.: 678 377 0051

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

Signed: ____ Date: 12/19/05
Authorized Representative

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

PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: SCDHEC

Address: 2600 Bull Street

City: Columbia State: SC Zip: 29201-1708

Telephone: Work: (803) 898-4300 Home:

2. LOCATION OF WELL: MW-27 **COUNTY: Spartanburg**
Name: George Souther's Grocery

Street Address: 280 Goodjoin Road
City: Campobello, SC Zip: 29322

Latitude: $35^0\ 03^1\ 46^{11}$ Longitude: $82^0\ 10^1\ 59^{11}$

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
Red Sandy Clay	7	7
Red to Brown Silty Sand	10	17
* Indicate Water Bearing Zones		
Use a 2nd sheet if needed		

5. REMARKS:

6. PERMIT NUMBER: UMW -19055 MW-27

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

8. WELL DEPTH (completed) Date Started: 11/16/05

17 ft Date Completed: 11/16/05

9. TYPE [ ] Mud Rotary [ ] Jetted [ ] Bored
[ ] Dug [ ] Air Rotary [ ] Driven
[ ] Cable Tool [X] Hollow Stem Auger

10. CASING: [X]Threaded [ ] Welded
Diam.: 2^{11}
Type: [X] PVC [ ] Galvanized
[ ] Steel [ ] Other
0 in. to 2 ft depth
____ in. to ____ ft depth

Height: Above/Below
Surface Flush ft
Weight____ lb/ft
Drive Shoe? [ ] Yes [ ] No

11. SCREEN
Type____ PVC Diam.: 2^{11}
Slot/Gauge: 0.010 Length: 15 ft
Set Between: 2 ft and 17 ft **NOTE: MULTIPLE SCREENS**
____ ft and ____ ft **USE SECOND SHEET**

Sieve Analysis [ ] Yes (please enclose) [ ] No

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

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. ARTIFICAL FILTER (filter pack) [X] Yes [ ] No
Installed from 1 ft. to 17 ft
Effective size 20/30 Uniformity

16. WELL GROUTED? [X] Yes [ ] No
[ ] Neat Cement [ ] Bentonite [X] Bentonite/Cement [ ] Other ____
Depth: From 0 ft to 1

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: James Wilson CERT. NO: 1612
Address: 1800 MacLeod Dr. Ste F, Lawrenceville, GA 30043
Telephone No.: 678 377 0400 Fax No.: 678 377 0051

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

Signed: James R. Wilson Date: 12/19/05
Authorized Representative

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: SCDHEC
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: (803) 898-4300 Home:

2. LOCATION OF WELL: MW-28 **COUNTY: Spartanburg**
Name: George Souther's Grocery
Street Address: 280 Goodjoin Road
City: Campobello, SC Zip: 29322
Latitude: 35° 03' 46" Longitude: 82° 10' 59"

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
Red to Brown Siltv Sand	25	25

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

5. REMARKS:

6. PERMIT NUMBER: UMW -19055 MW-28

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

8. WELL DEPTH (completed) Date Started: 11/16/05
25 ft Date Completed: 11/16/05

9. TYPE [ ] Mud Rotary [ ] Jetted [ ] Bored [ ] Dug [ ] Air Rotary [ ] Driven [ ] Cable Tool [X] Hollow Stem Auger

10. CASING: [X]Threaded [ ] Welded
Diam.: 2"
Type: [X] PVC [ ] Galvanized [ ] Steel [ ] Other
0 in. to 10 ft depth
____ in. to ____ ft depth
Height: Above/Below Surface Flush ft
Weight ____ lb/ft
Drive Shoe? [ ] Yes [ ] No

11. SCREEN
Type PVC Diam.: 2"
Slot/Gauge: 0.010 Length: 15 ft
Set Between: 10 ft and 25 ft **NOTE: MULTIPLE SCREENS**
____ ft and ____ ft **USE SECOND SHEET**
Sieve Analysis [ ] Yes (please enclose) [ ] No

12. STATIC WATER LEVEL 13 ft below land surface after 24 hrs

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. ARTIFICAL FILTER (filter pack) [X] Yes [ ] No
Installed from 8 ft. to 25 ft
Effective size 20/30 Uniformity

16. WELL GROUTED? [X] Yes [ ] No
[ ] Neat Cement [ ] Bentonite [X] Bentonite/Cement [ ] Other ____
Depth: From 0 ft to 8

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: James Wilson CERT. NO: 1612
Address: 1800 MacLeod Dr. Ste F, Lawrenceville, GA 30043
Telephone No.: 678 377 0400 Fax No.: 678 377 0051

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

Signed: ____ Date: 12/19/05
Authorized Representative

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: SCDHEC
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: (803) 898-4300 Home:

2. LOCATION OF WELL: MW-29 **COUNTY: Spartanburg**
Name: George Souther's Grocery
Street Address: 280 Goodjoin Road
City: Campobello, SC Zip: 29322
Latitude: 35° 03' 46" Longitude: 82° 10' 59"

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
Red Sandy Clay	13	13
Red to brown Silty Sand	16	29
Red to brown Sand	1	30
* Indicate Water Bearing Zones		
Use a 2nd sheet if needed		

5. REMARKS:

6. PERMIT NUMBER: UMW -19055 MW-29

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

8. WELL DEPTH (completed) Date Started: 11/09/05
30 ft Date Completed: 11/09/05

9. TYPE [ ] Mud Rotary [ ] Jetted [ ] Bored
[ ] Dug [ ] Air Rotary [ ] Driven
[ ] Cable Tool [X] Hollow Stem Auger

10. CASING: [X]Threaded [ ] Welded
Diam.: 2"
Type: [X] PVC [ ] Galvanized
[ ] Steel [ ] Other
0 in. to 15 ft depth
____ in. to ____ ft depth
Height: Above/Below
Surface Flush ft
Weight____ lb/ft
Drive Shoe? [ ] Yes [ ] No

11. SCREEN
Type____ PVC Diam.: 2"
Slot/Gauge: 0.010 Length: 15 ft
Set Between: 15 ft and 30 ft **NOTE: MULTIPLE SCREENS**
____ ft and ____ ft **USE SECOND SHEET**
Sieve Analysis [ ] Yes (please enclose) [ ] No

12. STATIC WATER LEVEL 22 ft below land surface after 24 hrs

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. ARTIFICAL FILTER (filter pack) [X] Yes [ ] No
Installed from 13 ft. to 30 ft
Effective size 20/30 Uniformity

16. WELL GROUTED? [X] Yes [ ] No
[ ] Neat Cement [ ] Bentonite [X] Bentonite/Cement [ ] Other ____
Depth: From 0 ft to 13

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: James Wilson CERT. NO: 1612
Address: 1800 MacLeod Dr. Ste F, Lawrenceville, GA 30043
Telephone No.: 678 377 0400 Fax No.: 678 377 0051

20. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.
Signed: ____ Date: 12/19/05
Authorized Representative

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: SCDHEC

Address: 2600 Bull Street

City: Columbia State: SC Zip: 29201-1708

Telephone: Work: (803) 898-4300 Home:

2. LOCATION OF WELL: MW-30 **COUNTY: Spartanburg**
Name: George Souther's Grocery

Street Address: 280 Goodjoin Road
City: Campobello, SC Zip: 29322

Latitude: $35^0\ 03^1\ 46^{11}$ Longitude: $82^0\ 10^1\ 59^{11}$

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
Red Clayey Sand	10	10
Red to brown Silty Sand	15	25
Red to brown Sand	5	30
* Indicate Water Bearing Zones		
Use a 2nd sheet if needed		

5. REMARKS:

6. PERMIT NUMBER: UMW -19055 MW-30

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

8. WELL DEPTH (completed) Date Started: 11/09/05

30 ft Date Completed: 11/09/05

9. TYPE [ ] Mud Rotary [ ] Jetted [ ] Bored
[ ] Dug [ ] Air Rotary [ ] Driven
[ ] Cable Tool [X] Hollow Stem Auger

10. CASING: [X]Threaded [ ] Welded
Diam.: 2^{11}
Type: [X] PVC [ ] Galvanized
[ ] Steel [ ] Other
0 in. to 15 ft depth
____ in. to ____ ft depth

Height: Above/Below
Surface Flush ft
Weight____ lb/ft
Drive Shoe? [ ] Yes [ ] No

11. SCREEN
Type PVC Diam.: 2^{11}
Slot/Gauge: 0.010 Length: 15 ft
Set Between: 15 ft and 30 ft **NOTE: MULTIPLE SCREENS**
____ ft and ____ ft **USE SECOND SHEET**

Sieve Analysis [ ] Yes (please enclose) [ ] No

12. STATIC WATER LEVEL 27 ft below land surface after 24 hrs

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. ARTIFICAL FILTER (filter pack) [X] Yes [ ] No
Installed from 13 ft. to 30 ft
Effective size 20/30 Uniformity

16. WELL GROUTED? [X] Yes [ ] No
[ ] Neat Cement [ ] Bentonite [X] Bentonite/Cement [ ] Other ____
Depth: From 0 ft to 13

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: James Wilson CERT. NO: 1612
Address: 1800 MacLeod Dr. Ste F, Lawrenceville, GA 30043
Telephone No.: 678 377 0400 Fax No.: 678 377 0051

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

Signed: Jon R Wilson Date: 12/19/05
Authorized Representative

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: SCDHEC

Address: 2600 Bull Street

City: Columbia State: SC Zip: 29201-1708

Telephone: Work: (803) 898-4300 Home:

2. LOCATION OF WELL: MW-31 **COUNTY: Spartanburg**
Name: George Souther's Grocery

Street Address: 280 Goodjoin Road
City: Campobello, SC Zip: 29322

Latitude: $35^{0}\ 03^{1}\ 46^{11}$ Longitude: $82^{0}\ 10^{1}\ 59^{11}$

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
Red Clayey Sand	5	5
Red to brown Silty Sand	15	20
Red to brown Sand	10	30
* Indicate Water Bearing Zones		
Use a 2nd sheet if needed		

5. REMARKS:

6. PERMIT NUMBER: UMW -19055 MW-31

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

8. WELL DEPTH (completed) Date Started: 11/10/05

30 ft Date Completed: 11/10/05

9. TYPE [ ] Mud Rotary [ ] Jetted [ ] Bored
[ ] Dug [ ] Air Rotary [ ] Driven
[ ] Cable Tool [X] Hollow Stem Auger

10. CASING: [X]Threaded [ ] Welded
Diam.: 2^{11}
Type: [X] PVC [ ] Galvanized
[ ] Steel [ ] Other
0 in. to 15 ft depth
____ in. to ____ ft depth

Height: Above/Below
Surface Flush ft
Weight____ lb/ft
Drive Shoe? [ ] Yes [ ] No

11. SCREEN
Type____ PVC Diam.: 2^{11}
Slot/Gauge: 0.010 Length: 15 ft
Set Between: 15 ft and 30 ft **NOTE: MULTIPLE SCREENS**
____ ft and ____ ft **USE SECOND SHEET**

Sieve Analysis [ ] Yes (please enclose) [ ] No

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

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. ARTIFICAL FILTER (filter pack) [X] Yes [ ] No
Installed from 13 ft. to 30 ft
Effective size 20/30 Uniformity

16. WELL GROUTED? [X] Yes [ ] No
[ ] Neat Cement [ ] Bentonite [X] Bentonite/Cement [ ] Other ____
Depth: From 0 ft to 13

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: James Wilson CERT. NO: 1612
Address: 1800 MacLeod Dr. Ste F, Lawrenceville, GA 30043
Telephone No.: 678 377 0400 Fax No.: 678 377 0051

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

Signed: ____ Date: 12/19/05
Authorized Representative

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: SCDHEC

Address: 2600 Bull Street

City: Columbia State: SC Zip: 29201-1708

Telephone: Work: (803) 898-4300 Home:

2. LOCATION OF WELL: MW-32 **COUNTY: Spartanburg**
Name: George Souther's Grocery

Street Address: 280 Goodjoin Road
City: Campobello, SC Zip: 29322

Latitude: 35° 03' 46" Longitude: 82° 10' 59"

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
Red Sandy Clay	15	15
Red to brown Sandy Silt	15	30
* Indicate Water Bearing Zones		
Use a 2nd sheet if needed		

5. REMARKS:

6. PERMIT NUMBER: UMW -19055 MW-32

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

8. WELL DEPTH (completed) Date Started: 11/11/05

30 ft Date Completed: 11/11/05

9. TYPE [ ] Mud Rotary [ ] Jetted [ ] Bored
[ ] Dug [ ] Air Rotary [ ] Driven
[ ] Cable Tool [X] Hollow Stem Auger

10. CASING: [X]Threaded [ ] Welded
Diam.: 2"
Type: [X] PVC [ ] Galvanized
[ ] Steel [ ] Other
0 in. to 15 ft depth
___ in. to ___ ft depth

Height: Above/Below
Surface Flush ft
Weight____ lb/ft
Drive Shoe? [ ] Yes [ ] No

11. SCREEN
Type PVC Diam.: 2"
Slot/Gauge: 0.010 Length: 15 ft
Set Between: 15 ft and 30 ft **NOTE: MULTIPLE SCREENS**
___ ft and ___ ft **USE SECOND SHEET**

Sieve Analysis [ ] Yes (please enclose) [ ] No

12. STATIC WATER LEVEL 22 ft below land surface after 24 hrs

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. ARTIFICAL FILTER (filter pack) [X] Yes [ ] No
Installed from 13 ft. to 30 ft
Effective size 20/30 Uniformity

16. WELL GROUTED? [X] Yes [ ] No
[ ] Neat Cement [ ] Bentonite [X] Bentonite/Cement [ ] Other ___
Depth: From 0 ft to 13

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: James Wilson CERT. NO: 1612
Address: 1800 MacLeod Dr. Ste F, Lawrenceville, GA 30043
Telephone No.: 678 377 0400 Fax No.: 678 377 0051

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

Signed: ___ Date: 12/19/05
Authorized Representative

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

PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: SCDHEC

Address: 2600 Bull Street

City: Columbia State: SC Zip: 29201-1708

Telephone: Work: (803) 898-4300 Home:

2. LOCATION OF WELL: MW-33 **COUNTY: Spartanburg**
Name: George Souther's Grocery

Street Address: 280 Goodjoin Road
City: Campobello, SC Zip: 29322

Latitude: 35° 03' 46" Longitude: 82° 10' 59"

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
Red Sandy Clay	10	10
Red to brown Silty Sand	6	16
Red to Brown Sand	6	22
Basement Rock	18	40
* Indicate Water Bearing Zones Use a 2nd sheet if needed		

5. REMARKS:

6. PERMIT NUMBER: UMW -19055 MW-33

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

8. WELL DEPTH (completed) Date Started: 12/07/05

40 ft Date Completed: 12/07/05

9. TYPE [ ] Mud Rotary [ ] Jetted [ ] Bored
[ ] Dug [X] Air Rotary [ ] Driven
[ ] Cable Tool [ ] Hollow Stem Auger

10. CASING: [X]Threaded [ ] Welded
Diam.: 2"
Type: [X] PVC [ ] Galvanized
[ ] Steel [ ] Other
2" 0 in. to 25 ft depth
____ in. to ____ ft depth

Height: Above/Below
Surface Flush ft
Weight_____lb/ft
Drive Shoe? [ ]Yes [ ] No

11. SCREEN
Type_____PVC_____ Diam.: 2"
Slot/Gauge: 0.010 Length: 15 ft
Set Between: 25 ft and 40 ft **NOTE: MULTIPLE SCREENS**
____ ft and ____ ft **USE SECOND SHEET**

Sieve Analysis [ ] Yes (please enclose) [ ] No

12. STATIC WATER LEVEL 39 ft below land surface after 24 hrs

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. ARTIFICAL FILTER (filter pack) [X] Yes [ ] No
Installed from 23 ft. to 40 ft
Effective size 20/30 Uniformity

16. WELL GROUTED? [X] Yes [ ] No
[ ] Neat Cement [ ] Bentonite [X] Bentonite/Cement [ ] Other _____
Depth: From 0 ft to 23

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: James Wilson CERT. NO: 1612
Address: 1800 MacLeod Dr. Ste F, Lawrenceville, GA 30043
Telephone No.: 678 377 0400 Fax No.: 678 377 0051

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

Signed: _____ Date: 12/19/05
Authorized Representative

Water Well Record
Bureau of Water

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

DHEC — PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: SCDHEC
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: (803) 898-4300 Home:

2. LOCATION OF WELL: MW-34 **COUNTY: Spartanburg**
Name: George Souther's Grocery
Street Address: 280 Goodjoin Road
City: Campobello, SC Zip: 29322
Latitude: 35° 03' 46" Longitude: 82° 10' 59"

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
Red to brown Silty Sand	6	6
Red to brown Sand	6	12
Basement Rock	28	40

* Indicate Water Bearing Zones

Use a 2nd sheet if needed

5. REMARKS:

6. PERMIT NUMBER: UMW -19055 MW-34

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

8. WELL DEPTH (completed) Date Started: 12/08/05
40 ft Date Completed: 12/08/05

9. TYPE [ ] Mud Rotary [ ] Jetted [ ] Bored
[ ] Dug [X] Air Rotary [ ] Driven
[ ] Cable Tool [ ] Hollow Stem Auger

10. CASING: [X]Threaded [ ] Welded
Diam.: 2"
Type: [X] PVC [ ] Galvanized
[ ] Steel [ ] Other
2" 0 in. to 25 ft depth
______ in. to ______ ft depth
Height: Above/Below
Surface Flush ft
Weight ______ lb/ft
Drive Shoe? [ ] Yes [ ] No

11. SCREEN
Type PVC Diam.: 2"
Slot/Gauge: 0.010 Length: 15 ft
Set Between: 25 ft and 40 ft **NOTE: MULTIPLE SCREENS**
______ ft and ______ ft **USE SECOND SHEET**
Sieve Analysis [ ] Yes (please enclose) [ ] No

12. STATIC WATER LEVEL Dry ft below land surface after 24 hrs

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. ARTIFICAL FILTER (filter pack) [X] Yes [ ] No
Installed from 23 ft. to 40 ft
Effective size 20/30 Uniformity

16. WELL GROUTED? [X] Yes [ ] No
[ ] Neat Cement [ ] Bentonite [X] Bentonite/Cement [ ] Other ______
Depth: From 0 ft to 23

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: James Wilson CERT. NO: 1612
Address: 1800 MacLeod Dr. Ste F, Lawrenceville, GA 30043
Telephone No.: 678 377 0400 Fax No.: 678 377 0051

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

Signed: ______ Date: 12/19/05
Authorized Representative

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

1. WELL OWNER INFORMATION:
Name: SCDHEC

Address: 2600 Bull Street

City: Columbia State: SC Zip: 29201-1708

Telephone: Work: (803) 898-4300 Home:

2. LOCATION OF WELL: MW-35 **COUNTY: Spartanburg**
Name: George Souther's Grocery

Street Address: 280 Goodjoin Road
City: Campobello, SC Zip: 29322

Latitude: 35° 03' 46" Longitude: 82° 10' 59"

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
Red Sandy Clay	11	11
Red to brown Sandy Silt	8	19
Red to Beige Silty Sand	7	26
Weathered Rock	2	28
* Indicate Water Bearing Zones		
Use a 2nd sheet if needed		

5. REMARKS:

6. PERMIT NUMBER: UMW -19055 MW-35

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

8. WELL DEPTH (completed) Date Started: 11/11/05

28 ft Date Completed: 11/11/05

9. TYPE [ ] Mud Rotary [ ] Jetted [ ] Bored
[ ] Dug [ ] Air Rotary [ ] Driven
[ ] Cable Tool [X] Hollow Stem Auger

10. CASING: [X]Threaded [ ] Welded
Diam.: 2"
Type: [X] PVC [ ] Galvanized
[ ] Steel [ ] Other
0 in. to 13 ft depth
____ in. to ____ ft depth

Height: Above/Below
Surface Flush ft
Weight____ lb/ft
Drive Shoe? [ ] Yes [ ] No

11. SCREEN
Type____ PVC Diam.: 2"
Slot/Gauge: 0.010 Length: 15 ft
Set Between: 13 ft and 28 ft **NOTE: MULTIPLE SCREENS**
____ ft and ____ ft **USE SECOND SHEET**

Sieve Analysis [ ] Yes (please enclose) [ ] No

12. STATIC WATER LEVEL 22 ft below land surface after 24 hrs

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. ARTIFICAL FILTER (filter pack) [X] Yes [ ] No
Installed from 11 ft. to 30 ft
Effective size 20/30 Uniformity

16. WELL GROUTED? [X] Yes [ ] No
[ ] Neat Cement [ ] Bentonite [X] Bentonite/Cement [ ] Other ____
Depth: From 0 ft to 11

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: James Wilson CERT. NO: 1612
Address: 1800 MacLeod Dr. Ste F, Lawrenceville, GA 30043
Telephone No.: 678 377 0400 Fax No.: 678 377 0051

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

Signed: ____ Date: 12/19/05
Authorized Representative

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

PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: SCDHEC

Address: 2600 Bull Street

City: Columbia State: SC Zip: 29201-1708

Telephone: Work: (803) 898-4300 Home:

2. LOCATION OF WELL: MW-36 **COUNTY: Spartanburg**
Name: George Souther's Grocery

Street Address: 280 Goodjoin Road
City: Campobello, SC Zip: 29322

Latitude: $35^0\ 03^1\ 46^{11}$ Longitude: $82^0\ 10^1\ 59^{11}$

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
Red Sandy Clay	8	8
Red to brown Sandy Silt	5	13
Red to Beige Silty Sand	12	25
* Indicate Water Bearing Zones Use a 2nd sheet if needed		

5. REMARKS:

6. PERMIT NUMBER: UMW -19055 MW-36

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

8. WELL DEPTH (completed) Date Started: 11/14/05

25 ft Date Completed: 11/14/05

9. TYPE [ ] Mud Rotary [ ] Jetted [ ] Bored
[ ] Dug [ ] Air Rotary [ ] Driven
[ ] Cable Tool [X] Hollow Stem Auger

10. CASING: [X]Threaded [ ] Welded
Diam.: 2^{11}
Type: [X] PVC [ ] Galvanized
[ ] Steel [ ] Other
0 in. to 10 ft depth
____ in. to ____ ft depth

Height: Above/Below
Surface Flush ft
Weight____ lb/ft
Drive Shoe? [ ] Yes [ ] No

11. SCREEN
Type____ PVC Diam.: 2^{11}
Slot/Gauge: 0.010 Length: 15 ft
Set Between: 10 ft and 25 ft **NOTE: MULTIPLE SCREENS**
____ ft and ____ ft **USE SECOND SHEET**

Sieve Analysis [ ] Yes (please enclose) [ ] No

12. STATIC WATER LEVEL 16 ft below land surface after 24 hrs

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. ARTIFICAL FILTER (filter pack) [X] Yes [ ] No
Installed from 8 ft. to 25 ft
Effective size 20/30 Uniformity

16. WELL GROUTED? [X] Yes [ ] No
[ ] Neat Cement [ ] Bentonite [X] Bentonite/Cement [ ] Other ____
Depth: From 0 ft to 8

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: James Wilson CERT. NO: 1612
Address: 1800 MacLeod Dr. Ste F, Lawrenceville, GA 30043
Telephone No.: 678 377 0400 Fax No.: 678 377 0051

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

Signed: ____ Date: 12/19/05
Authorized Representative

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

PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: SCDHEC

Address: 2600 Bull Street

City: Columbia State: SC Zip: 29201-1708

Telephone: Work: (803) 898-4300 Home:

2. LOCATION OF WELL: MW-37 **COUNTY: Spartanburg**
Name: George Souther's Grocery

Street Address: 280 Goodjoin Road
City: Campobello, SC Zip: 29322

Latitude: $35^0\ 03^1\ 46^{11}$ Longitude: $82^0\ 10^1\ 59^{11}$

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
Red Sandy Clay	3	3
Red to Beige Silty Sand	14	17
* Indicate Water Bearing Zones		
Use a 2nd sheet if needed		

5. REMARKS:

6. PERMIT NUMBER: UMW -19055 MW-37

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

8. WELL DEPTH (completed) Date Started: 11/14/05

17 ft Date Completed: 11/14/05

9. TYPE [ ] Mud Rotary [ ] Jetted [ ] Bored
[ ] Dug [ ] Air Rotary [ ] Driven
[ ] Cable Tool [X] Hollow Stem Auger

10. CASING: [X]Threaded [ ] Welded
Diam.: 2^{11}
Type: [X] PVC [ ] Galvanized
[ ] Steel [ ] Other
0 in. to 2 ft depth
____ in. to ____ ft depth

Height: Above/Below
Surface Flush ft
Weight____ lb/ft
Drive Shoe? [ ] Yes [ ] No

11. SCREEN
Type PVC Diam.: 2^{11}
Slot/Gauge: 0.010 Length: 15 ft
Set Between: 2 ft and 17 ft **NOTE: MULTIPLE SCREENS**
____ ft and ____ ft **USE SECOND SHEET**

Sieve Analysis [ ] Yes (please enclose) [ ] No

12. STATIC WATER LEVEL 15 ft below land surface after 24 hrs

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. ARTIFICAL FILTER (filter pack) [X] Yes [ ] No
Installed from 1 ft. to 17 ft
Effective size 20/30 Uniformity

16. WELL GROUTED? [X] Yes [ ] No
[ ] Neat Cement [ ] Bentonite [X] Bentonite/Cement [ ] Other ____
Depth: From 0 ft to 1

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: James Wilson CERT. NO: 1612
Address: 1800 MacLeod Dr. Ste F, Lawrenceville, GA 30043
Telephone No.: 678 377 0400 Fax No.: 678 377 0051

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

Signed: ____ Date: 12/19/05
Authorized Representative

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

1. WELL OWNER INFORMATION:
Name: SCDHEC

Address: 2600 Bull Street

City: Columbia State: SC Zip: 29201-1708

Telephone: Work: (803) 898-4300 Home:

2. LOCATION OF WELL: MW-38 **COUNTY: Spartanburg**
Name: George Souther's Grocery

Street Address: 280 Goodjoin Road
City: Campobello, SC Zip: 29322

Latitude: $35^{0}\ 03^{1}\ 46^{11}$ Longitude: $82^{0}\ 10^{1}\ 59^{11}$

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
Red to Beige Silty Sand	17	17
* Indicate Water Bearing Zones		
Use a 2nd sheet if needed		

5. REMARKS:

6. PERMIT NUMBER: UMW -19055 MW-38

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

8. WELL DEPTH (completed) Date Started: 11/15/05

17 ft Date Completed: 11/15/05

9. TYPE [ ] Mud Rotary [ ] Jetted [ ] Bored
[ ] Dug [ ] Air Rotary [ ] Driven
[ ] Cable Tool [X] Hollow Stem Auger

10. CASING: [X]Threaded [ ] Welded
Diam.: 2^{11}
Type: [X] PVC [ ] Galvanized
[ ] Steel [ ] Other
0 in. to 2 ft depth
____ in. to ____ ft depth

Height: Above/Below
Surface 3' above ground
Weight____ lb/ft
Drive Shoe? [ ] Yes [ ] No

11. SCREEN
Type PVC Diam.: 2^{11}
Slot/Gauge: 0.010 Length: 15 ft
Set Between: 2 ft and 17 ft **NOTE: MULTIPLE SCREENS**
____ ft and ____ ft **USE SECOND SHEET**

Sieve Analysis [ ] Yes (please enclose) [ ] No

12. STATIC WATER LEVEL 15 ft below land surface after 24 hrs

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. ARTIFICAL FILTER (filter pack) [X] Yes [ ] No
Installed from 1 ft. to 17 ft
Effective size 20/30 Uniformity

16. WELL GROUTED? [X] Yes [ ] No
[ ] Neat Cement [ ] Bentonite [X] Bentonite/Cement [ ] Other ____
Depth: From 0 ft to 1

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: James Wilson CERT. NO: 1612
Address: 1800 MacLeod Dr. Ste F, Lawrenceville, GA 30043
Telephone No.: 678 377 0400 Fax No.: 678 377 0051

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

Signed: ____ Date: 12/19/05
Authorized Representative

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: SCDHEC

Address: 2600 Bull Street

City: Columbia State: SC Zip: 29201-1708

Telephone: Work: (803) 898-4300 Home:

2. LOCATION OF WELL: MW-39 **COUNTY: Spartanburg**
Name: George Souther's Grocery

Street Address: 280 Goodjoin Road
City: Campobello, SC Zip: 29322

Latitude: $35^0\ 03^1\ 46^{11}$ Longitude: $82^0\ 10^1\ 59^{11}$

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
Red to Beige Silty Sand	17	17
* Indicate Water Bearing Zones Use a 2nd sheet if needed		

5. REMARKS:

6. PERMIT NUMBER: UMW -19055 MW-39

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

8. WELL DEPTH (completed) Date Started: 11/15/05

17 ft Date Completed: 11/15/05

9. TYPE [ ] Mud Rotary [ ] Jetted [ ] Bored
[ ] Dug [ ] Air Rotary [ ] Driven
[ ] Cable Tool [X] Hollow Stem Auger

10. CASING: [X]Threaded [ ] Welded
Diam.: 2^{11}
Type: [X] PVC [ ] Galvanized
[ ] Steel [ ] Other
0 in. to 2 ft depth
____ in. to ____ ft depth

Height: Above/Below
Surface 3' above ground
Weight____ lb/ft
Drive Shoe? [ ] Yes [ ] No

11. SCREEN
Type PVC Diam.: 2^{11}
Slot/Gauge: 0.010 Length: 15 ft
Set Between: 2 ft and 17 ft **NOTE: MULTIPLE SCREENS**
____ ft and ____ ft **USE SECOND SHEET**

Sieve Analysis [ ] Yes (please enclose) [ ] No

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

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. ARTIFICAL FILTER (filter pack) [X] Yes [ ] No
Installed from 1 ft. to 17 ft
Effective size 20/30 Uniformity

16. WELL GROUTED? [X] Yes [ ] No
[ ] Neat Cement [ ] Bentonite [X] Bentonite/Cement [ ] Other ____
Depth: From 0 ft to 1

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: James Wilson CERT. NO: 1612
Address: 1800 MacLeod Dr. Ste F, Lawrenceville, GA 30043
Telephone No.: 678 377 0400 Fax No.: 678 377 0051

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

Signed: ____ Date: 12/19/05
Authorized Representative

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: SCDHEC
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: (803) 898-4300 Home:

2. LOCATION OF WELL: MW-40 **COUNTY: Spartanburg**
Name: George Souther's Grocery
Street Address: 280 Goodjoin Road
City: Campobello, SC Zip: 29322
Latitude: 35° 03' 46" Longitude: 82° 10' 59"

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
Red Sandy Clay	10	10
Red to brown Silty Sand	12	22
Red to Brown Sand	6	28
Basement Rock	12	40

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

5. REMARKS:

6. PERMIT NUMBER: UMW -19055 MW-40

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

8. WELL DEPTH (completed) Date Started: 12/06/05
40 ft Date Completed: 12/06/05

9. TYPE [ ] Mud Rotary [ ] Jetted [ ] Bored [ ] Dug [X] Air Rotary [ ] Driven [ ] Cable Tool [ ] Hollow Stem Auger

10. CASING: [X]Threaded [ ] Welded
Diam.: 2"
Type: [X] PVC [ ] Galvanized [ ] Steel [ ] Other
2" 0 in. to 25 ft depth
____ in. to ____ ft depth
Height: Above/Below Surface Flush ft
Weight ____ lb/ft
Drive Shoe? [ ] Yes [ ] No

11. SCREEN
Type PVC Diam.: 2"
Slot/Gauge: 0.010 Length: 15 ft
Set Between: 25 ft and 40 ft **NOTE: MULTIPLE SCREENS**
____ ft and ____ ft **USE SECOND SHEET**
Sieve Analysis [ ] Yes (please enclose) [ ] No

12. STATIC WATER LEVEL 38 ft below land surface after 24 hrs

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. ARTIFICAL FILTER (filter pack) [X] Yes [ ] No
Installed from 23 ft. to 40 ft
Effective size 20/30 Uniformity

16. WELL GROUTED? [X] Yes [ ] No
[ ] Neat Cement [ ] Bentonite [X] Bentonite/Cement [ ] Other ____
Depth: From 0 ft to 23

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: James Wilson CERT. NO: 1612
Address: 1800 MacLeod Dr. Ste F, Lawrenceville, GA 30043
Telephone No.: 678 377 0400 Fax No.: 678 377 0051

20. WATER WELL CONTRACTOR'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: 12/19/05
Authorized Representative

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: SCDHEC

Address: 2600 Bull Street

City: Columbia State: SC Zip: 29201-1708

Telephone: Work: (803) 898-4300 Home:

2. LOCATION OF WELL: MW-41 **COUNTY: Spartanburg**
Name: George Souther's Grocery

Street Address: 280 Goodjoin Road
City: Campobello, SC Zip: 29322

Latitude: 35° 03' 46" Longitude: 82° 10' 59"

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
Red to brown Silty Sand	25	25
Red to white Sandy Clay	15	40
* Indicate Water Bearing Zones Use a 2nd sheet if needed		

5. REMARKS:

6. PERMIT NUMBER: UMW -19055 MW-41

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

8. WELL DEPTH (completed) Date Started: 11/17/05

40 ft Date Completed: 11/17/05

9. TYPE [ ] Mud Rotary [ ] Jetted [ ] Bored
[ ] Dug [ ] Air Rotary [ ] Driven
[ ] Cable Tool [X] Hollow Stem Auger

10. CASING: [X]Threaded [ ] Welded
Diam.: 2"
Type: [X] PVC [ ] Galvanized
[ ] Steel [ ] Other
0 in. to 25 ft depth
____ in. to ____ ft depth

Height: Above/Below
Surface Flush ft
Weight____ lb/ft
Drive Shoe? [ ] Yes [ ] No

11. SCREEN
Type____ PVC Diam.: 2"
Slot/Gauge: 0.010 Length: 15 ft
Set Between: 25 ft and 40 ft **NOTE: MULTIPLE SCREENS**
____ ft and ____ ft **USE SECOND SHEET**

Sieve Analysis [ ] Yes (please enclose) [ ] No

12. STATIC WATER LEVEL 36 ft below land surface after 24 hrs

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. ARTIFICAL FILTER (filter pack) [X] Yes [ ] No
Installed from 23 ft. to 40 ft
Effective size 20/30 Uniformity

16. WELL GROUTED? [X] Yes [ ] No
[ ] Neat Cement [ ] Bentonite [X] Bentonite/Cement [ ] Other ____
Depth: From 0 ft to 23

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: James Wilson CERT. NO: 1612
Address: 1800 MacLeod Dr. Ste F, Lawrenceville, GA 30043
Telephone No.: 678 377 0400 Fax No.: 678 377 0051

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

Signed: ____ Date: 12/19/05
Authorized Representative

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: SCDHEC
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: (803) 898-4300 Home:

2. LOCATION OF WELL: MW-42 **COUNTY: Spartanburg**
Name: George Souther's Grocery
Street Address: 280 Goodjoin Road
City: Campobello, SC Zip: 29322
Latitude: 35° 03' 46" Longitude: 82° 10' 59"

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
Red to brown Silty Sand	25	25
Red to white Sandy Clay	15	40

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

5. REMARKS:

6. PERMIT NUMBER: UMW -19055 MW-42

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

8. WELL DEPTH (completed) Date Started: 11/17/05
40 ft Date Completed: 11/17/05

9. TYPE [] Mud Rotary [] Jetted [] Bored
[] Dug [] Air Rotary [] Driven
[] Cable Tool [X] Hollow Stem Auger

10. CASING: [X]Threaded [] Welded
Diam.: 2"
Type: [X] PVC [] Galvanized
[] Steel [] Other
0 in. to 25 ft depth
____ in. to ____ ft depth

Height: Above/Below
Surface Flush ft
Weight ______ lb/ft
Drive Shoe? [] Yes [] No

11. SCREEN
Type PVC Diam.: 2"
Slot/Gauge: 0.010 Length: 15 ft
Set Between: 25 ft and 40 ft **NOTE: MULTIPLE SCREENS**
____ ft and ____ ft **USE SECOND SHEET**
Sieve Analysis [] Yes (please enclose) [] No

12. STATIC WATER LEVEL 36 ft below land surface after 24 hrs

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. ARTIFICAL FILTER (filter pack) [X] Yes [] No
Installed from 23 ft. to 40 ft
Effective size 20/30 Uniformity

16. WELL GROUTED? [X] Yes [] No
[] Neat Cement [] Bentonite [X] Bentonite/Cement [] Other ____
Depth: From 0 ft to 23

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: James Wilson CERT. NO: 1612
Address: 1800 MacLeod Dr. Ste F, Lawrenceville, GA 30043
Telephone No.: 678 377 0400 Fax No.: 678 377 0051

20. WATER WELL CONTRACTOR'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: 12/19/05
Authorized Representative

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

PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: SCDHEC

Address: 2600 Bull Street

City: Columbia State: SC Zip: 29201-1708

Telephone: Work: (803) 898-4300 Home:

2. LOCATION OF WELL: MW-43 **COUNTY: Spartanburg**
Name: George Souther's Grocery

Street Address: 280 Goodjoin Road
City: Campobello, SC Zip: 29322

Latitude: $35^0\ 03^1\ 46^{11}$ Longitude: $82^0\ 10^1\ 59^{11}$

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
Red to brown Silty Sand	17	17
Red to white Sandy Clay	23	40
* Indicate Water Bearing Zones		
Use a 2nd sheet if needed		

5. REMARKS:

6. PERMIT NUMBER: UMW -19055 MW-43

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

8. WELL DEPTH (completed) Date Started: 11/18/05

40 ft Date Completed: 11/18/05

9. TYPE [ ] Mud Rotary [ ] Jetted [ ] Bored
[ ] Dug [ ] Air Rotary [ ] Driven
[ ] Cable Tool [X] Hollow Stem Auger

10. CASING: [X]Threaded [ ] Welded
Diam.: 2^{11}
Type: [X] PVC [ ] Galvanized
[ ] Steel [ ] Other
0 in. to 25 ft depth
____ in. to ____ ft depth

Height: Above/Below
Surface Flush ft
Weight____ lb/ft
Drive Shoe? [ ] Yes [ ] No

11. SCREEN
Type____ PVC Diam.: 2^{11}
Slot/Gauge: 0.010 Length: 15 ft
Set Between: 25 ft and 40 ft **NOTE: MULTIPLE SCREENS**
____ ft and ____ ft **USE SECOND SHEET**

Sieve Analysis [ ] Yes (please enclose) [ ] No

12. STATIC WATER LEVEL 30 ft below land surface after 24 hrs

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. ARTIFICAL FILTER (filter pack) [X] Yes [ ] No
Installed from 23 ft. to 40 ft
Effective size 20/30 Uniformity

16. WELL GROUTED? [X] Yes [ ] No
[ ] Neat Cement [ ] Bentonite [X] Bentonite/Cement [ ] Other ____
Depth: From 0 ft to 23

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: James Wilson CERT. NO: 1612
Address: 1800 MacLeod Dr. Ste F, Lawrenceville, GA 30043
Telephone No.: 678 377 0400 Fax No.: 678 377 0051

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

Signed: James A Wilson Date: 12/19/05
Authorized Representative

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

PROMOTE PROTECT PROSPER

1. WELL OWNER INFORMATION:
Name: SCDHEC

Address: 2600 Bull Street

City: Columbia State: SC Zip: 29201-1708

Telephone: Work: (803) 898-4300 Home:

2. LOCATION OF WELL: DW-1 **COUNTY: Spartanburg**
Name: George Souther's Grocery

Street Address: 280 Goodjoin Road
City: Campobello, SC Zip: 29322

Latitude: $35^0\ 03^1\ 46^{11}$ Longitude: $82^0\ 10^1\ 59^{11}$

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
Red to brown Silty Sand	35	35
Red to brown Sand	43	78
Basement Rock	12	90
* Indicate Water Bearing Zones		
Use a 2nd sheet if needed		

5. REMARKS:

6. PERMIT NUMBER: UMW -19055 DW-1

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

8. WELL DEPTH (completed) Date Started: 12/12/05

90 ft Date Completed: 12/13/05

9. TYPE [ ] Mud Rotary [ ] Jetted [ ] Bored
[ ] Dug [X] Air Rotary [ ] Driven
[ ] Cable Tool [ ] Hollow Stem Auger

10. CASING: [X]Threaded [ ] Welded
Diam.: 2^{11} / 5"
Type: [X] PVC [ ] Galvanized
[ ] Steel [ ] Other
2" 0 in. to 85 ft depth
5" 0 in. to 78 ft depth

Height: Above/Below
Surface Flush ft
Weight_____lb/ft
Drive Shoe? [ ] Yes [ ] No

11. SCREEN
Type PVC Diam.: 2^{11}
Slot/Gauge: 0.010 Length: 5 ft
Set Between: 85 ft and 90 ft **NOTE: MULTIPLE SCREENS**
____ ft and ____ ft **USE SECOND SHEET**

Sieve Analysis [ ] Yes (please enclose) [ ] No

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

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. ARTIFICAL FILTER (filter pack) [X] Yes [ ] No
Installed from 83 ft. to 90 ft
Effective size 20/30 Uniformity

16. WELL GROUTED? [X] Yes [ ] No
[ ] Neat Cement [ ] Bentonite [X] Bentonite/Cement [ ] Other _____
Depth: From 0 ft to 83

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: James Wilson CERT. NO: 1612
Address: 1800 MacLeod Dr. Ste F, Lawrenceville, GA 30043
Telephone No.: 678 377 0400 Fax No.: 678 377 0051

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

Signed: _____ Date: 12/19/05
Authorized Representative

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: SCDHEC

Address: 2600 Bull Street

City: Columbia State: SC Zip: 29201-1708

Telephone: Work: (803) 898-4300 Home:

2. LOCATION OF WELL: DW-2 **COUNTY: Spartanburg**
Name: George Souther's Grocery

Street Address: 280 Goodjoin Road
City: Campobello, SC Zip: 29322

Latitude: $35^0\ 03^1\ 46^{11}$ Longitude: $82^0\ 10^1\ 59^{11}$

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
Red Sandy Clay	5	5
Red to brown Silty Sand	35	40
Red to Brown Sand	35	75
* Indicate Water Bearing Zones		
Use a 2nd sheet if needed		

5. REMARKS:

6. PERMIT NUMBER: UMW -19055 DW-2

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

8. WELL DEPTH (completed) Date Started: 11/30/05

75 ft Date Completed: 12/01/05

9. TYPE [ ] Mud Rotary [ ] Jetted [ ] Bored
[ ] Dug [ ] Air Rotary [ ] Driven
[ ] Cable Tool [X] Hollow Stem Auger

10. CASING: [X]Threaded [ ] Welded
Diam.: 2^{11} / 5"
Type: [X] PVC [ ] Galvanized
[ ] Steel [ ] Other
2" 0 in. to 70 ft depth
5" 0 in. to 65 ft depth

Height: Above/Below
Surface Flush ft
Weight_____lb/ft
Drive Shoe? [ ] Yes [ ] No

11. SCREEN
Type_____PVC_____ Diam.: 2^{11}
Slot/Gauge: 0.010 Length: 5 ft
Set Between: 70 ft and 75 ft **NOTE: MULTIPLE SCREENS**
_____ft and _____ft **USE SECOND SHEET**

Sieve Analysis [ ] Yes (please enclose) [ ] No

12. STATIC WATER LEVEL 38 ft below land surface after 24 hrs

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. ARTIFICAL FILTER (filter pack) [X] Yes [ ] No
Installed from 63 ft. to 75 ft
Effective size 20/30 Uniformity

16. WELL GROUTED? [X] Yes [ ] No
[ ] Neat Cement [ ] Bentonite [X] Bentonite/Cement [ ] Other _____
Depth: From 0 ft to 63

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: James Wilson CERT. NO: 1612
Address: 1800 MacLeod Dr. Ste F, Lawrenceville, GA 30043
Telephone No.: 678 377 0400 Fax No.: 678 377 0051

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

Signed: _____ Date: 12/19/05
Authorized Representative

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: SCDHEC

Address: 2600 Bull Street

City: Columbia State: SC Zip: 29201-1708

Telephone: Work: (803) 898-4300 Home:

2. LOCATION OF WELL: DW-3 **COUNTY: Spartanburg**
Name: George Souther's Grocery

Street Address: 280 Goodjoin Road
City: Campobello, SC Zip: 29322

Latitude: $35^0\ 03^1\ 46^{11}$ Longitude: $82^0\ 10^1\ 59^{11}$

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
Red Silty Sand	20	20
Red to brown Silty Sand	30	50
Red to Brown Sand	3	53
Basement Rock	12	65
* Indicate Water Bearing Zones Use a 2nd sheet if needed		

5. REMARKS:

6. PERMIT NUMBER: UMW -19055 DW-3

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

8. WELL DEPTH (completed) Date Started: 12/07/05

65 ft Date Completed: 12/08/05

9. TYPE [ ] Mud Rotary [ ] Jetted [ ] Bored
[ ] Dug [X] Air Rotary [ ] Driven
[ ] Cable Tool [ ] Hollow Stem Auger

10. CASING: [X]Threaded [ ] Welded
Diam.: 2^{11} / 5"
Type: [X] PVC [ ] Galvanized
[ ] Steel [ ] Other
2" 0 in. to 60 ft depth
5" 0 in. to 53 ft depth

Height: Above/Below
Surface Flush ft
Weight_____lb/ft
Drive Shoe? [ ] Yes [ ] No

11. SCREEN
Type PVC Diam.: 2^{11}
Slot/Gauge: 0.010 Length: 5 ft
Set Between: 60 ft and 65 ft **NOTE: MULTIPLE SCREENS**
____ ft and ____ ft **USE SECOND SHEET**

Sieve Analysis [ ] Yes (please enclose) [ ] No

12. STATIC WATER LEVEL 28 ft below land surface after 24 hrs

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. ARTIFICAL FILTER (filter pack) [X] Yes [ ] No
Installed from 58 ft. to 65 ft
Effective size 20/30 Uniformity

16. WELL GROUTED? [X] Yes [ ] No
[ ] Neat Cement [ ] Bentonite [X] Bentonite/Cement [ ] Other _____
Depth: From 0 ft to 58

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: James Wilson CERT. NO: 1612
Address: 1800 MacLeod Dr. Ste F, Lawrenceville, GA 30043
Telephone No.: 678 377 0400 Fax No.: 678 377 0051

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

Signed: James Wilson Date: 12/19/05
Authorized Representative

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: SCDHEC

Address: 2600 Bull Street

City: Columbia State: SC Zip: 29201-1708

Telephone: Work: (803) 898-4300 Home:

2. LOCATION OF WELL: DW-4 **COUNTY: Spartanburg**
Name: George Souther's Grocery

Street Address: 280 Goodjoin Road
City: Campobello, SC Zip: 29322

Latitude: $35^0\ 03^1\ 46^{11}$ Longitude: $82^0\ 10^1\ 59^{11}$

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
Red Sandy Clay	10	10
Red to brown Silty Sand	30	40
Red to Brown Sand	12	52
Basement Rock	15	67
* Indicate Water Bearing Zones		
Use a 2nd sheet if needed		

5. REMARKS:

6. PERMIT NUMBER: UMW -19055 DW-4

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

8. WELL DEPTH (completed) Date Started: 12/05/05

67 ft Date Completed: 12/06/05

9. TYPE [ ] Mud Rotary [ ] Jetted [ ] Bored
[ ] Dug [X] Air Rotary [ ] Driven
[ ] Cable Tool [ ] Hollow Stem Auger

10. CASING: [X]Threaded [ ] Welded
Diam.: 2^{11} / 5"
Type: [X] PVC [ ] Galvanized
[ ] Steel [ ] Other
2" 0 in. to 62 ft depth
5" 0 in. to 52 ft depth

Height: Above/Below
Surface Flush ft
Weight_____lb/ft
Drive Shoe? [ ] Yes [ ] No

11. SCREEN
Type PVC Diam.: 2^{11}
Slot/Gauge: 0.010 Length: 5 ft
Set Between: 62 ft and 67 ft **NOTE: MULTIPLE SCREENS**
_____ft and _____ft **USE SECOND SHEET**

Sieve Analysis [ ] Yes (please enclose) [ ] No

12. STATIC WATER LEVEL 32 ft below land surface after 24 hrs

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. ARTIFICAL FILTER (filter pack) [X] Yes [ ] No
Installed from 60 ft. to 67 ft
Effective size 20/30 Uniformity

16. WELL GROUTED? [X] Yes [ ] No
[ ] Neat Cement [ ] Bentonite [X] Bentonite/Cement [ ] Other _____
Depth: From 0 ft to 60

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: James Wilson CERT. NO: 1612
Address: 1800 MacLeod Dr. Ste F, Lawrenceville, GA 30043
Telephone No.: 678 377 0400 Fax No.: 678 377 0051

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

Signed: _____ Date: 12/19/05
Authorized Representative

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: SCDHEC
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: (803) 898-4300 Home:

2. LOCATION OF WELL: DW-5 **COUNTY: Spartanburg**
Name: George Souther's Grocery
Street Address: 280 Goodjoin Road
City: Campobello, SC Zip: 29322
Latitude: 35° 03' 46" Longitude: 82° 10' 59"

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
Red Silty Sand	20	20
Red to brown Silty Sand	28	48
Red to Brown Sand	4	52
Basement Rock	23	75
* Indicate Water Bearing Zones Use a 2nd sheet if needed		

5. REMARKS:

6. PERMIT NUMBER: UMW -19055 DW-5

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

8. WELL DEPTH (completed) Date Started: 12/08/05
75 ft Date Completed: 12/09/05

9. TYPE [ ] Mud Rotary [ ] Jetted [ ] Bored
[ ] Dug [X] Air Rotary [ ] Driven
[ ] Cable Tool [ ] Hollow Stem Auger

10. CASING: [X]Threaded [ ] Welded
Diam.: 2" / 5"
Type: [X] PVC [ ] Galvanized
[ ] Steel [ ] Other
2" 0 in. to 70 ft depth
5" 0 in. to 52 ft depth

Height: Above/Below
Surface Flush ft
Weight ____ lb/ft
Drive Shoe? [ ] Yes [ ] No

11. SCREEN
Type PVC Diam.: 2"
Slot/Gauge: 0.010 Length: 5 ft
Set Between: 70 ft and 75 ft **NOTE: MULTIPLE SCREENS**
____ ft and ____ ft **USE SECOND SHEET**
Sieve Analysis [ ] Yes (please enclose) [ ] No

12. STATIC WATER LEVEL 31 ft below land surface after 24 hrs

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. ARTIFICAL FILTER (filter pack) [X] Yes [ ] No
Installed from 68 ft. to 75 ft
Effective size 20/30 Uniformity

16. WELL GROUTED? [X] Yes [ ] No
[ ] Neat Cement [ ] Bentonite [X] Bentonite/Cement [ ] Other ____
Depth: From 0 ft to 68

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: James Wilson CERT. NO: 1612
Address: 1800 MacLeod Dr. Ste F, Lawrenceville, GA 30043
Telephone No.: 678 377 0400 Fax No.: 678 377 0051

20. WATER WELL CONTRACTOR'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: 12/19/05
Authorized Representative

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: SCDHEC

Address: 2600 Bull Street

City: Columbia State: SC Zip: 29201-1708

Telephone: Work: (803) 898-4300 Home:

2. LOCATION OF WELL: DW-6 **COUNTY: Spartanburg**
Name: George Souther's Grocery

Street Address: 280 Goodjoin Road
City: Campobello, SC Zip: 29322

Latitude: $35^0\ 03^1\ 46^{11}$ Longitude: $82^0\ 10^1\ 59^{11}$

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
Red to brown Silty Sand	25	25
Red to white Sandy Clay	28	52
Brown Sand	23	75
* Indicate Water Bearing Zones		
Use a 2nd sheet if needed		

5. REMARKS:

6. PERMIT NUMBER: UMW -19055 DW-6

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

8. WELL DEPTH (completed) Date Started: 11/28/05

75 ft Date Completed: 11/29/05

9. TYPE [ ] Mud Rotary [ ] Jetted [ ] Bored
[ ] Dug [ ] Air Rotary [ ] Driven
[ ] Cable Tool [X] Hollow Stem Auger

10. CASING: [X]Threaded [ ] Welded
Diam.: 2^{11} / 5"
Type: [X] PVC [ ] Galvanized
[ ] Steel [ ] Other
2" 0 in. to 70 ft depth
5" 0 in. to 65 ft depth

Height: Above/Below
Surface Flush ft
Weight_____lb/ft
Drive Shoe? [ ] Yes [ ] No

11. SCREEN
Type_____PVC_____ Diam.: 2^{11}
Slot/Gauge: 0.010 Length: 5 ft
Set Between: 70 ft and 75 ft **NOTE: MULTIPLE SCREENS**
_____ft and _____ft **USE SECOND SHEET**

Sieve Analysis [ ] Yes (please enclose) [ ] No

12. STATIC WATER LEVEL 46 ft below land surface after 24 hrs

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. ARTIFICAL FILTER (filter pack) [X] Yes [ ] No
Installed from 63 ft. to 75 ft
Effective size 20/30 Uniformity

16. WELL GROUTED? [X] Yes [ ] No
[ ] Neat Cement [ ] Bentonite [X] Bentonite/Cement [ ] Other _____
Depth: From 0 ft to 63

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: James Wilson CERT. NO: 1612
Address: 1800 MacLeod Dr. Ste F, Lawrenceville, GA 30043
Telephone No.: 678 377 0400 Fax No.: 678 377 0051

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

Signed: James Wilson Date: 12/19/05
Authorized Representative

APPENDIX 4
Field Data

GROUNDWATER ELEVATION DATA

PROJECT NAME: Souther's Grocery
DATE: 12/12-14/05 RECORDED BY: Drew Miller

CONSULTECH PROJECT NO.: 05-02-015
MEASURING DEVICE: Oil/Water Interface Probe

WELL NO.	DATE	TIME	DEPTH TO GROUND-WATER	DEPTH to FREE PRODUCT	pH	TEMP	CONDUCTIVITY	DISSOLVED OXYGEN
MW-1	12/12/05	1000	14.58		5.3	18.2	105	2.1
MW-2	12/12/05	dry	DRY	DRY	DRY	DRY	DRY	DRY
MW-3	12/12/05	1030	15.65		7.1	19.3	85	1.9
MW-4	12/12/05	1045	10.61		5.1	18.3	113	2.6
MW-5	12/12/05	1100	12.23	11.90	FP	FP	FP	FP
MW-6R	12/13/05	1115	11.18		5.1	19.1	129	3.7
MW-7	12/14/05	930	13.40	sheen	4.8	18.6	193	0.9
MW-8	12/12/05	1145	17.86	17.60	FP	FP	FP	FP
MW-9	12/12/05	1000	19.03		5.3	19.2	123	1.4
MW-10R	12/12/05	1300	5.45		5.8	18.4	65	4.2
MW-11	12/12/05	1215	14.69	Sheen	4.8	18.9	136	3.7
MW-12	12/13/05	1245	15.93		5.6	19.3	229	4.0
MW-13R	12/12/05	1430	9.82		4.8	19.6	78	2.8
MW-15R	12/14/05	1000	7.70		6.9	20.1	341	3.7
MW-16	12/12/05	1215	16.67		5.9	20.0	169	4.2
MW-17	12/12/05	1245	13.16		5.4	19.2	29	3.6
MW-18R	12/12/05	1500	26.89		4.7	18.7	143	3.5
MW-19	12/12/05	1100	23.27		4.7	21.1	433	4.3
MW-20	12/12/05	1030	25.29		5.5	20.2	456	2.9

Measured from top of riser unless otherwise noted.
Collected depth to water/product measurements prior to initiating well development activities.

GROUNDWATER ELEVATION DATA

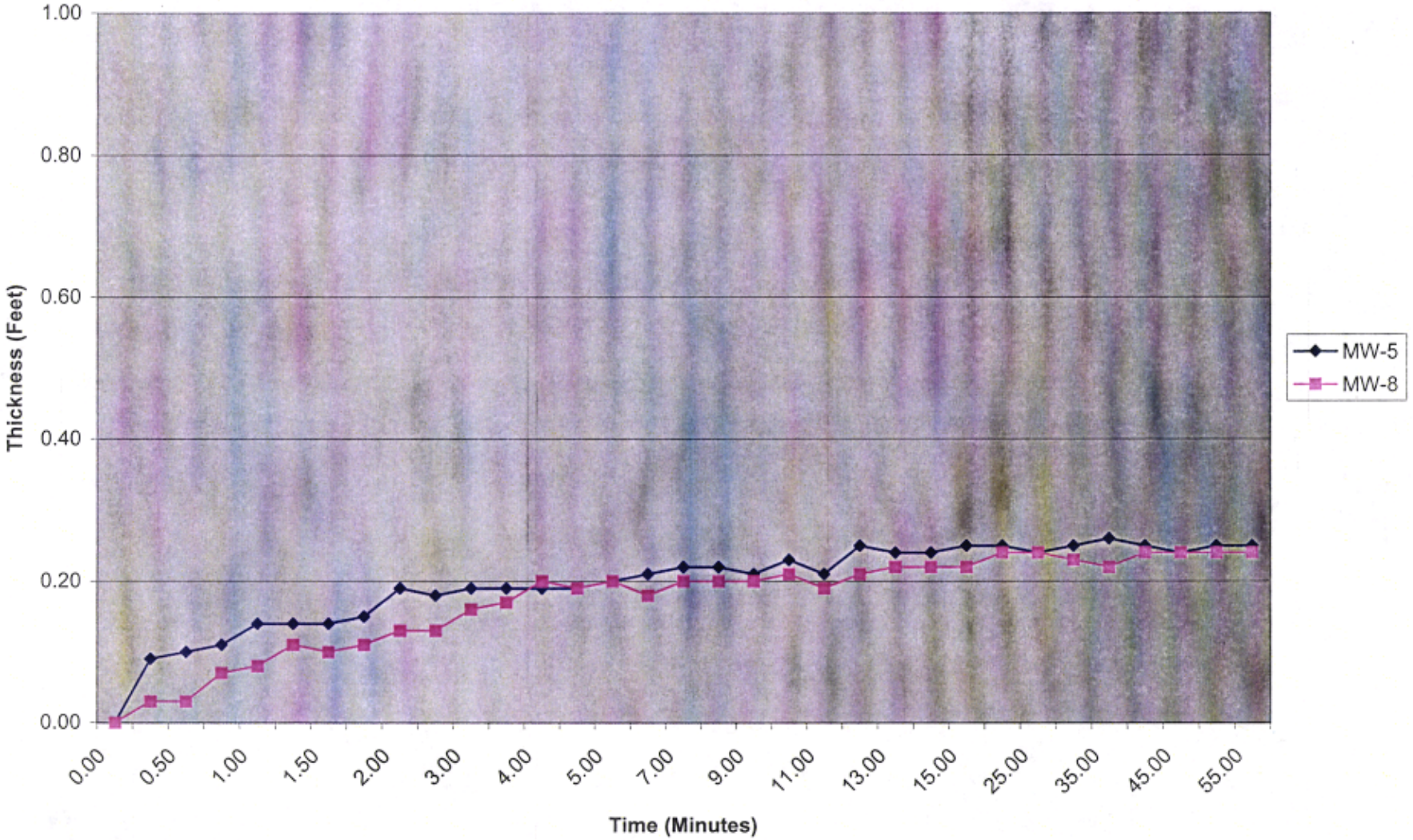
PROJECT NAME: George Souther's Grocery
DATE: 12/12-14/05 RECORDED BY: Drew Miller

CONSULTECH PROJECT NO.: 05-02-015
MEASURING DEVICE: Oil/Water Interface Probe

WELL NO.	DATE	TIME	DEPTH TO GROUND-WATER	DEPTH to FREE PRODUCT	pH	TEMP	CONDUCTIVITY	DISSOLVED OXYGEN
MW-21	12/12/05	830	6.26		5.3	19.8	255	3.6
MW-22	12/12/05	900	8.37		5.5	20.2	94	3.2
MW-23	12/12/05	1200	16.70		4.7	19.6	103	3.0
MW-24	12/12/05	1230	7.03		6.1	19.6	301	4.1
MW-25	12/12/05	1245	7.99		4.7	19.2	86	2.8
MW-26	12/13/05	1100	7.54		5.9	19.9	91	3.8
MW-27	12/13/05	1530	11.24		5.2	18.3	143	3.4
MW-28	12/13/05	1600	12.61		5.8	18.1	469	3.6
MW-29	12/13/05	930	21.34		5.3	19.2	119	3.2
MW-30	12/13/05	930	26.40		5.5	19.6	220	3.0
MW-31	12/13/05	900	23.01		6.0	18.1	86	2.3
MW-32	12/13/05	900	21.34		6.4	18.4	94	3.1
MW-33	12/13/05	1200	34.72		7.0	19.1	131	3.6
MW-34	12/13/05	dry	DRY	DRY	7.4	DRY	DRY	DRY
MW-35	12/13/05	1200	21.04		6.3	18.0	69	3.3
MW-36	12/13/05	1000	15.65		6.1	17.5	125	3.0
MW-37	12/14/05	1130	14.50		5.9	18.4	211	2.9
MW-38	12/14/05	1030	16.51		6.4	17.9	106	2.9

Measured from top of riser unless otherwise noted.

Product Recovery Test C-05-02-015



GROUNDWATER ELEVATION DATA

PROJECT NAME: George Souther's Grocery
DATE: 12/12-14/05 RECORDED BY: Drew Miller

CONSULTECH PROJECT NO.: 05-02-015
MEASURING DEVICE: Oil/Water Interface Probe

WELL NO.	DATE	TIME	DEPTH TO GROUND-WATER	DEPTH to FREE PRODUCT	PH	TEMP	CONDUCTIVITY	DISSOLVED OXYGEN
MW-39	12/14/05	1100	12.06		7.1	18.3	113	3.1
MW-40	12/14/05	1215	34.80		4.5	18.6	162	3.4
MW-41	12/14/05	1230	34.80		6.1	20.1	168	3.8
MW-42	12/14/05	1300	34.41		5.2	18.1	303	3.9
MW-43	12/14/05	1330	27.22		4.7	18.7	121	2.4
DW-1	12/14/05	1400	20.21		6.3	18.3	93	2.8
DW-2	12/14/05	1330	13.03		7.2	17.9	44	3.0
DW-3	12/14/05	900	22.64		7.4	19.4	110	2.6
DW-4	12/14/05	1200	32.12		6.7	19.3	234	3.6
DW-5	12/14/05	1000	28.41		7.0	18.2	245	2.4
DW-6	12/14/05	1230	43.52		6.3	17.8	62	3.0
RW-1	12/14/05	1130	14.97		4.9	18.1	93	2.1
PW-1	12/14/05	1145	14.78		4.7	18.3	328	1.7
PW-2	12/14/05	1100	16.16		8.1	17.9	174	3.0

Measured from top of riser unless otherwise noted.
Collected depth to water/product measurements prior to initiating well development activities.

Product Recovery Test MW-5

Time	Water level	Product Level	Product Thickness
0.00	13.34	13.34	0.00
0.25	13.25	13.16	0.09
0.50	13.16	13.06	0.10
0.75	13.11	13.00	0.11
1.00	13.10	12.96	0.14
1.25	13.05	12.91	0.14
1.50	13.03	12.89	0.14
1.75	13.00	12.85	0.15
2.00	12.99	12.80	0.19
2.50	12.93	12.75	0.18
3.00	12.89	12.70	0.19
3.50	12.84	12.65	0.19
4.00	12.79	12.60	0.19
4.50	12.75	12.56	0.19
5.00	12.74	12.54	0.20
6.00	12.70	12.49	0.21
7.00	12.67	12.45	0.22
8.00	12.64	12.42	0.22
9.00	12.61	12.40	0.21
10.00	12.59	12.36	0.23
11.00	12.56	12.35	0.21
12.00	12.56	12.31	0.25
13.00	12.54	12.30	0.24
14.00	12.51	12.27	0.24
15.00	12.50	12.25	0.25
20.00	12.45	12.20	0.25
25.00	12.40	12.16	0.24
30.00	12.35	12.10	0.25
35.00	12.34	12.08	0.26
40.00	12.30	12.05	0.25
45.00	12.26	12.02	0.24
50.00	12.26	12.01	0.25
55.00	12.26	12.01	0.25

Product Recovery Test MW-8

Time	Water level	Product Level	Product Thickness
0.00	18.65	18.65	0.00
0.25	18.58	18.55	0.03
0.50	18.53	18.50	0.03
0.75	18.49	18.42	0.07
1.00	18.45	18.37	0.08
1.25	18.42	18.31	0.11
1.50	18.38	18.28	0.10
1.75	18.36	18.25	0.11
2.00	18.33	18.20	0.13
2.50	18.30	18.17	0.13
3.00	18.27	18.11	0.16
3.50	18.26	18.09	0.17
4.00	18.24	18.04	0.20
4.50	18.21	18.02	0.19
5.00	18.20	18.00	0.20
6.00	18.17	17.99	0.18
7.00	18.15	17.95	0.20
8.00	18.11	17.91	0.20
9.00	18.10	17.90	0.20
10.00	18.09	17.88	0.21
11.00	18.05	17.86	0.19
12.00	18.05	17.84	0.21
13.00	18.05	17.83	0.22
14.00	18.03	17.81	0.22
15.00	18.02	17.80	0.22
20.00	17.99	17.75	0.24
25.00	17.95	17.71	0.24
30.00	17.93	17.70	0.23
35.00	17.92	17.70	0.22
40.00	17.90	17.66	0.24
45.00	17.88	17.64	0.24
50.00	17.87	17.63	0.24
55.00	17.86	17.62	0.24

UTILITY FORMAT AND POTENTIAL RECEPTOR FORMAT

Receptor Analysis

Describe all potential receptors and preferential pathways within a 1000-foot radius of the site

Description of Receptor	Distance/Direction from Site
1) WSW-1	On site
1) Tributary of Motlow Creek	250 feet Northeast

Utilities Survey

List the utilities on site, and adjacent to the site within a 250-foot radius, that could serve as exposure points or as preferential pathways

Utility	On-site or Distance/Direction from site	Depth to Utility
2.) Water	Water lines run on the south side of Mt. Lebanon and Goodjoin roads and on the south side of Goodjoin road and on the north side of these roads west of the intersection in the easement.	2-5 Feet
2.) Fiber optic/ Telephone	Telephone lines run on the south side of Goodjoin road and on the north side of Mt. Lebanon road west of the intersection in the easement.	2-5 Feet
2.) Septic systems	Septic systems are behind all residences and businesses in the area.	2-5 Feet

Example format taken from DHEC 3542(07/1999)

APPENDIX 5
Laboratory Analytical Results

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

September 12, 2005

Jim Wilson
Consultech Environmental, Inc.
1800 MacLeod Rd
Suite F
Lawrenceville, GA 30043

TEL: (678) 377-0400
FAX (678) 377-0051

RE: George Souther's Grocery

Order No.: 0509281

Dear Jim Wilson:

Analytical Environmental Services, Inc. received 8 samples on 9/7/2005 10:05:00 AM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. Sample results are not dry weight corrected, unless if Pmoist analysis are requested on the chain of custody or other project spefic arrangements have been made.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 06/01/05-06/30/06.
-AIHA Certification number 505 for analysis of Industrial Hygiene samples (Organics, Inorganics), Paint Chips, Soil and Dust Wipes, effective until 02/01/07.

These results relate only to the items tested. This report may only be reproduced in full and contains 14 total pages (including cover letter).

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

Sincerely,

J. Trichinotis

James Trichinotis
Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 0509281

Date: _____ Page 1 of 1

COMPANY: CONSULTECH

ADDRESS: 1800 MACLOUD SUITE 1800 LIVILLE, GA 30043

PHONE: 678-377-0400

FAX: 678-377-0051

SAMPLED BY: Kevin Van De Vusse

SIGNATURE: Kevin Van De Vusse

ANALYSIS REQUESTED: BTEX, MTBE, MAP-8260B; BTEX

PRESERVATION (See codes)

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	BTEX, MTBE, MAP-8260B	BTEX	REMARKS	No # of Containers
1										
2	GW-01	9/1/05	1530	✓			2			
3	GW-02	9/1/05	1615	✓			2			
4	GW-03	9/1/05	1730	✓			2			
5	GW-04	9/2/05	0800	✓			2			
6	GW-05	9/2/05	0845	✓			2			
7	GW-06	9/2/05	0945	✓			2			
8	GW-07	9/2/05	1050	✓			2			
9	05-02-015	9/2/05	1130		✓			4		
10										
11										
12										
13										
14										

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: Kevin Van De Vusse		1: FED EX	
2: fed ex		2: Marcus D Robinson	9-2-5 10:05
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER_____

PROJECT INFORMATION
PROJECT NAME: GEORGE SOUTHER'S GROCERY
PROJECT #: 05-02-015
SITE ADDRESS: CAMPOBELLO, SC
SEND REPORT TO: Jim Wilson
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #:_____ PO#:_____

RECEIPT
Total # of Containers

Turnaround Time Request
- [x] Standard 5 Business Days
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same Day Rush (auth req.)
- [ ] Other _____

STATE PROGRAM (if any): _____
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: [illegible]ir GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blank[illegible] DW = Drinking Water (Blanks) O = Other (specify)
PRESERVATIVE C[illegible] H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+[illegible]um Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc. **Date:** *12-Sep-05*

CLIENT: Consultech Environmental, Inc.
Project: George Souther's Grocery
Lab Order: 0509281

CASE NARRATIVE

Sample Receipt Non-Conformance:

A Trip Blank was provided but is not listed on the COC. Trip blank will be analyzed free of charge.

Sample 05-02-015 was not received with the rest of the samples.

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 4th Edition. All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives unless indicated in the case narrative.

Volatile Organic Compounds Analysis by Method 8260B:

Matrix spike recovery for Toluene on sample 0509281-001AMS were outside control limits biased high. LCS recovery was within control limits indicating possible matrix interference.

Analytical Environmental Services, Inc.

Date: *12-Sep-05*

CLIENT: Consultech Environmental, Inc.
Project: George Souther's Grocery
Lab ID: 0509281-001

Client Sample ID: GW-01
Collection Date: 9/1/2005 3:30:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **TMP**
Methyl tert-butyl ether	BRL	1.0		µg/L	61903	1	9/8/2005 1:03 PM
Benzene	BRL	1.0		µg/L	61903	1	9/8/2005 1:03 PM
Toluene	BRL	1.0		µg/L	61903	1	9/8/2005 1:03 PM
Ethylbenzene	BRL	1.0		µg/L	61903	1	9/8/2005 1:03 PM
m,p-Xylene	BRL	1.0		µg/L	61903	1	9/8/2005 1:03 PM
o-Xylene	BRL	1.0		µg/L	61903	1	9/8/2005 1:03 PM
Naphthalene	BRL	5.0		µg/L	61903	1	9/8/2005 1:03 PM
Surr: 4-Bromofluorobenzene	97.2	66.7-128		%REC	61903	1	9/8/2005 1:03 PM
Surr: Dibromofluoromethane	99.3	72.1-121		%REC	61903	1	9/8/2005 1:03 PM
Surr: Toluene-d8	103	75.2-121		%REC	61903	1	9/8/2005 1:03 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *12-Sep-05*

CLIENT: Consultech Environmental, Inc.
Project: George Souther's Grocery
Lab ID: 0509281-002

Client Sample ID: GW-02
Collection Date: 9/1/2005 4:15:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **TMP**
Methyl tert-butyl ether	BRL	1.0		µg/L	61903	1	9/8/2005 2:47 PM
Benzene	10	1.0		µg/L	61903	1	9/8/2005 2:47 PM
Toluene	3.5	1.0		µg/L	61903	1	9/8/2005 2:47 PM
Ethylbenzene	BRL	1.0		µg/L	61903	1	9/8/2005 2:47 PM
m,p-Xylene	BRL	1.0		µg/L	61903	1	9/8/2005 2:47 PM
o-Xylene	BRL	1.0		µg/L	61903	1	9/8/2005 2:47 PM
Naphthalene	BRL	5.0		µg/L	61903	1	9/8/2005 2:47 PM
Surr: 4-Bromofluorobenzene	95.7	66.7-128		%REC	61903	1	9/8/2005 2:47 PM
Surr: Dibromofluoromethane	99.8	72.1-121		%REC	61903	1	9/8/2005 2:47 PM
Surr: Toluene-d8	106	75.2-121		%REC	61903	1	9/8/2005 2:47 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *12-Sep-05*

CLIENT: Consultech Environmental, Inc.
Project: George Souther's Grocery
Lab ID: 0509281-003

Client Sample ID: GW-03
Collection Date: 9/1/2005 5:30:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **TMP**
Methyl tert-butyl ether	BRL	1.0		µg/L	61903	1	9/8/2005 4:59 PM
Benzene	18	1.0		µg/L	61903	1	9/8/2005 4:59 PM
Toluene	10	1.0		µg/L	61903	1	9/8/2005 4:59 PM
Ethylbenzene	BRL	1.0		µg/L	61903	1	9/8/2005 4:59 PM
m,p-Xylene	2.4	1.0		µg/L	61903	1	9/8/2005 4:59 PM
o-Xylene	1.6	1.0		µg/L	61903	1	9/8/2005 4:59 PM
Naphthalene	BRL	5.0		µg/L	61903	1	9/8/2005 4:59 PM
Surr: 4-Bromofluorobenzene	108	66.7-128		%REC	61903	1	9/8/2005 4:59 PM
Surr: Dibromofluoromethane	91.5	72.1-121		%REC	61903	1	9/8/2005 4:59 PM
Surr: Toluene-d8	110	75.2-121		%REC	61903	1	9/8/2005 4:59 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *12-Sep-05*

CLIENT: Consultech Environmental, Inc.
Project: George Souther's Grocery
Lab ID: 0509281-004

Client Sample ID: GW-04
Collection Date: 9/2/2005 8:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **TMP**
Methyl tert-butyl ether	BRL	1.0		µg/L	61903	1	9/8/2005 3:14 PM
Benzene	6.7	1.0		µg/L	61903	1	9/8/2005 3:14 PM
Toluene	3.4	1.0		µg/L	61903	1	9/8/2005 3:14 PM
Ethylbenzene	BRL	1.0		µg/L	61903	1	9/8/2005 3:14 PM
m,p-Xylene	BRL	1.0		µg/L	61903	1	9/8/2005 3:14 PM
o-Xylene	BRL	1.0		µg/L	61903	1	9/8/2005 3:14 PM
Naphthalene	BRL	5.0		µg/L	61903	1	9/8/2005 3:14 PM
Surr: 4-Bromofluorobenzene	94.4	66.7-128		%REC	61903	1	9/8/2005 3:14 PM
Surr: Dibromofluoromethane	101	72.1-121		%REC	61903	1	9/8/2005 3:14 PM
Surr: Toluene-d8	103	75.2-121		%REC	61903	1	9/8/2005 3:14 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *12-Sep-05*

CLIENT: Consultech Environmental, Inc.
Project: George Souther's Grocery
Lab ID: 0509281-005

Client Sample ID: GW-05
Collection Date: 9/2/2005 8:45:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **TMP**
Methyl tert-butyl ether	BRL	1.0		µg/L	61903	1	9/8/2005 4:06 PM
Benzene	BRL	1.0		µg/L	61903	1	9/8/2005 4:06 PM
Toluene	BRL	1.0		µg/L	61903	1	9/8/2005 4:06 PM
Ethylbenzene	BRL	1.0		µg/L	61903	1	9/8/2005 4:06 PM
m,p-Xylene	BRL	1.0		µg/L	61903	1	9/8/2005 4:06 PM
o-Xylene	BRL	1.0		µg/L	61903	1	9/8/2005 4:06 PM
Naphthalene	BRL	5.0		µg/L	61903	1	9/8/2005 4:06 PM
Surr: 4-Bromofluorobenzene	94.7	66.7-128		%REC	61903	1	9/8/2005 4:06 PM
Surr: Dibromofluoromethane	100	72.1-121		%REC	61903	1	9/8/2005 4:06 PM
Surr: Toluene-d8	103	75.2-121		%REC	61903	1	9/8/2005 4:06 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *12-Sep-05*

CLIENT: Consultech Environmental, Inc.
Project: George Souther's Grocery
Lab ID: 0509281-006

Client Sample ID: GW-06
Collection Date: 9/2/2005 9:45:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **TMP**
Methyl tert-butyl ether	BRL	1.0		µg/L	61903	1	9/8/2005 3:40 PM
Benzene	1.1	1.0		µg/L	61903	1	9/8/2005 3:40 PM
Toluene	BRL	1.0		µg/L	61903	1	9/8/2005 3:40 PM
Ethylbenzene	BRL	1.0		µg/L	61903	1	9/8/2005 3:40 PM
m,p-Xylene	BRL	1.0		µg/L	61903	1	9/8/2005 3:40 PM
o-Xylene	BRL	1.0		µg/L	61903	1	9/8/2005 3:40 PM
Naphthalene	BRL	5.0		µg/L	61903	1	9/8/2005 3:40 PM
Surr: 4-Bromofluorobenzene	92.6	66.7-128		%REC	61903	1	9/8/2005 3:40 PM
Surr: Dibromofluoromethane	99.5	72.1-121		%REC	61903	1	9/8/2005 3:40 PM
Surr: Toluene-d8	106	75.2-121		%REC	61903	1	9/8/2005 3:40 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *12-Sep-05*

CLIENT: Consultech Environmental, Inc.
Project: George Souther's Grocery
Lab ID: 0509281-007

Client Sample ID: GW-07
Collection Date: 9/2/2005 10:50:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **TMP**
Methyl tert-butyl ether	BRL	1.0		µg/L	61903	1	9/8/2005 4:33 PM
Benzene	BRL	1.0		µg/L	61903	1	9/8/2005 4:33 PM
Toluene	BRL	1.0		µg/L	61903	1	9/8/2005 4:33 PM
Ethylbenzene	BRL	1.0		µg/L	61903	1	9/8/2005 4:33 PM
m,p-Xylene	BRL	1.0		µg/L	61903	1	9/8/2005 4:33 PM
o-Xylene	BRL	1.0		µg/L	61903	1	9/8/2005 4:33 PM
Naphthalene	BRL	5.0		µg/L	61903	1	9/8/2005 4:33 PM
Surr: 4-Bromofluorobenzene	95.7	66.7-128		%REC	61903	1	9/8/2005 4:33 PM
Surr: Dibromofluoromethane	99.4	72.1-121		%REC	61903	1	9/8/2005 4:33 PM
Surr: Toluene-d8	102	75.2-121		%REC	61903	1	9/8/2005 4:33 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *12-Sep-05*

CLIENT: Consultech Environmental, Inc.
Project: George Souther's Grocery
Lab ID: 0509281-008

Client Sample ID: TRIP BLANK
Collection Date: 9/2/2005
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **TMP**
Methyl tert-butyl ether	BRL	1.0		µg/L	61903	1	9/8/2005 11:45 AM
Benzene	BRL	1.0		µg/L	61903	1	9/8/2005 11:45 AM
Toluene	BRL	1.0		µg/L	61903	1	9/8/2005 11:45 AM
Ethylbenzene	BRL	1.0		µg/L	61903	1	9/8/2005 11:45 AM
m,p-Xylene	BRL	1.0		µg/L	61903	1	9/8/2005 11:45 AM
o-Xylene	BRL	1.0		µg/L	61903	1	9/8/2005 11:45 AM
Naphthalene	BRL	5.0		µg/L	61903	1	9/8/2005 11:45 AM
Surr: 4-Bromofluorobenzene	92.4	66.7-128		%REC	61903	1	9/8/2005 11:45 AM
Surr: Dibromofluoromethane	103	72.1-121		%REC	61903	1	9/8/2005 11:45 AM
Surr: Toluene-d8	105	75.2-121		%REC	61903	1	9/8/2005 11:45 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *12-Sep-05*

CLIENT: Consultech Environmental, Inc.
Work Order: 0509281
Project: George Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID **MB-61903** SampType: **MBLK** TestCode: **8260B_W** Units: **µg/L** Prep Date: **9/8/2005** RunNo: **71325**
Client ID: Batch ID: **61903** TestNo: **SW8260B** Analysis Date: **9/8/2005** SeqNo: **1406195**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	BRL	5.0									
Ethylbenzene	BRL	5.0									
m,p-Xylene	BRL	10									
Methyl tert-butyl ether	BRL	5.0									
Naphthalene	BRL	5.0									
o-Xylene	BRL	5.0									
Toluene	BRL	5.0									
Surr: 4-Bromofluorobenzene	47.99	5.0	50	0	96	66.7	128	0	0		
Surr: Dibromofluoromethane	52.27	5.0	50	0	105	72.1	121	0	0		
Surr: Toluene-d8	51.69	5.0	50	0	103	75.2	121	0	0		

Sample ID **LCS-61903** SampType: **LCS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **9/8/2005** RunNo: **71325**
Client ID: Batch ID: **61903** TestNo: **SW8260B** Analysis Date: **9/8/2005** SeqNo: **1406197**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	53	5.0	50	0	106	74.9	126	0	0		
Toluene	58.89	5.0	50	0	118	81.3	125	0	0		
Surr: 4-Bromofluorobenzene	47.3	5.0	50	0	94.6	66.7	128	0	0		
Surr: Dibromofluoromethane	53.68	5.0	50	0	107	72.1	121	0	0		
Surr: Toluene-d8	51.32	5.0	50	0	103	75.2	121	0	0		

Sample ID **0509281-001AMS** SampType: **MS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **9/8/2005** RunNo: **71325**
Client ID: **GW-01** Batch ID: **61903** TestNo: **SW8260B** Analysis Date: **9/8/2005** SeqNo: **1406200**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	54.72	5.0	50	0	109	69.7	128	0	0		
Toluene	64.69	5.0	50	0	129	76.2	128	0	0		S
Surr: 4-Bromofluorobenzene	48.55	5.0	50	0	97.1	66.7	128	0	0		
Surr: Dibromofluoromethane	48.23	5.0	50	0	96.5	72.1	121	0	0		

Qualifiers:
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- BRL Below Reporting Limit
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0509281
Project: George Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID **0509281-001AMS** SampType: **MS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **9/8/2005** RunNo: **71325**
Client ID: **GW-01** Batch ID: **61903** TestNo: **SW8260B** Analysis Date: **9/8/2005** SeqNo: **1406200**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	52.9	5.0	50	0	106	75.2	121	0	0		

Sample ID **0509281-001AMSD** SampType: **MSD** TestCode: **8260B_W** Units: **µg/L** Prep Date: **9/8/2005** RunNo: **71325**
Client ID: **GW-01** Batch ID: **61903** TestNo: **SW8260B** Analysis Date: **9/8/2005** SeqNo: **1406201**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	56.72	5.0	50	0	113	69.7	128	54.72	3.59	10	
Toluene	63.99	5.0	50	0	128	76.2	128	64.69	1.09	10	
Surr: 4-Bromofluorobenzene	48.03	5.0	50	0	96.1	66.7	128	48.55	0	0	
Surr: Dibromofluoromethane	49.62	5.0	50	0	99.2	72.1	121	48.23	0	0	
Surr: Toluene-d8	51.01	5.0	50	0	102	75.2	121	52.9	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

October 25, 2005

Jim Wilson
Consultech Environmental, Inc.
1800 MacLeod Rd
Suite F
Lawrenceville, GA 30043

TEL: (678) 377-0400
FAX (678) 377-0051

RE: George Souther's Grocery

Order No.: 0510C07

Dear Jim Wilson:

Analytical Environmental Services, Inc. received 9 samples on 10/24/2005 3:40:00 PM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. Sample results are not dry weight corrected, unless if Pmoist analysis are requested on the chain of custody or other project specific arrangements have been made.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 06/01/05-06/30/06.
-AIHA Certification number 505 for analysis of Industrial Hygiene samples (Organics, Inorganics), Paint Chips, Soil and Dust Wipes, effective until 02/01/07.

These results relate only to the items tested. This report may only be reproduced in full and contains 15 total pages (including cover letter).

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

Sincerely,

Mila Crain

Mila Crain
Customer Service Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 0510C07

Date: _____ Page 1 of 1

COMPANY: CONSULTECH
ADDRESS: 1800 Macland Suite E Lawrenceville, GA
PHONE: 678-377-0400
FAX: 678-377-0051
SAMPLED BY: Keith Van De Vusse
SIGNATURE: [signature]

ANALYSIS REQUESTED: TPH, EX, MTBE, VOC-8260B

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)	REMARKS	No # of Containers
1									
2	GW-08	10/20/05	1610	✓			2		
3	GW-09	10/20/05	1705	✓			2		
4	GW-10	10/20/05	1820	✓			2		
5	GW-11	10/21/05	1200	✓			2		
6	GW-12	10/21/05	1315	✓			2		
7	GW-13	10/21/05	1400	✓			2		
8	GW-14	10/21/05	1430	✓			2		
9	GW-15	10/21/05	1505	✓			2		
10									
11									
12									
13									
14									

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: [signature]	10/24/05	1: 10/24/05 2:45 [signature]	
2: 10/24/05 3:40 [signature]		2: [signature] 10/24/05 3:40	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER_____

PROJECT INFORMATION
PROJECT NAME: GEORGE SOUTHER'S GROCERY
PROJECT #: 05-02-015
SITE ADDRESS: Campobello, SC
SEND REPORT TO: Jim Wilson
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #:_____ PO#:_____

RECEIPT
Total # of Containers

Turnaround Time Request
- ○ Standard 5 Business Days
- ○ 2 Business Day Rush
- ☒ Next Business Day Rush
- ○ Same Day Rush (auth req.)
- ○ Other _____

STATE PROGRAM (if any): _____
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc. **Date:** *25-Oct-05*

CLIENT: Consultech Environmental, Inc.
Project: George Souther's Grocery
Lab Order: 0510C07

CASE NARRATIVE

Sample Receipt Non-Conformance:

A Trip Blank was provided but is not listed on the COC. Proceed with trip blank analysis at no cost to the client.
One sample of "GW-10" has headspace. Proceed with analysis.

Analytical Environmental Services, Inc.

Date: *25-Oct-05*

CLIENT: Consultech Environmental, Inc.
Project: George Souther's Grocery
Lab ID: 0510C07-001

Client Sample ID: GW-08
Collection Date: 10/20/2005 4:10:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **JTC**
Methyl tert-butyl ether	BRL	1.0		µg/L	63551	1	10/24/2005 10:04 PM
Benzene	BRL	1.0		µg/L	63551	1	10/24/2005 10:04 PM
Toluene	1.3	1.0		µg/L	63551	1	10/24/2005 10:04 PM
Ethylbenzene	BRL	1.0		µg/L	63551	1	10/24/2005 10:04 PM
m,p-Xylene	BRL	1.0		µg/L	63551	1	10/24/2005 10:04 PM
o-Xylene	BRL	1.0		µg/L	63551	1	10/24/2005 10:04 PM
Naphthalene	BRL	5.0		µg/L	63551	1	10/24/2005 10:04 PM
Surr: 4-Bromofluorobenzene	77.5	63.7-115		%REC	63551	1	10/24/2005 10:04 PM
Surr: Dibromofluoromethane	104	70.4-123		%REC	63551	1	10/24/2005 10:04 PM
Surr: Toluene-d8	100	73.4-115		%REC	63551	1	10/24/2005 10:04 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *25-Oct-05*

CLIENT: Consultech Environmental, Inc.
Project: George Souther's Grocery
Lab ID: 0510C07-002

Client Sample ID: GW-09
Collection Date: 10/20/2005 5:05:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **JTC**
Methyl tert-butyl ether	BRL	1.0		µg/L	63551	1	10/24/2005 10:31 PM
Benzene	BRL	1.0		µg/L	63551	1	10/24/2005 10:31 PM
Toluene	4.8	1.0		µg/L	63551	1	10/24/2005 10:31 PM
Ethylbenzene	1.7	1.0		µg/L	63551	1	10/24/2005 10:31 PM
m,p-Xylene	4.1	1.0		µg/L	63551	1	10/24/2005 10:31 PM
o-Xylene	1.4	1.0		µg/L	63551	1	10/24/2005 10:31 PM
Naphthalene	BRL	5.0		µg/L	63551	1	10/24/2005 10:31 PM
Surr: 4-Bromofluorobenzene	79.7	63.7-115		%REC	63551	1	10/24/2005 10:31 PM
Surr: Dibromofluoromethane	102	70.4-123		%REC	63551	1	10/24/2005 10:31 PM
Surr: Toluene-d8	100	73.4-115		%REC	63551	1	10/24/2005 10:31 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *25-Oct-05*

CLIENT: Consultech Environmental, Inc.
Project: George Souther's Grocery
Lab ID: 0510C07-003

Client Sample ID: GW-10
Collection Date: 10/20/2005 6:20:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **JTC**
Methyl tert-butyl ether	BRL	1.0		µg/L	63551	1	10/24/2005 9:37 PM
Benzene	BRL	1.0		µg/L	63551	1	10/24/2005 9:37 PM
Toluene	BRL	1.0		µg/L	63551	1	10/24/2005 9:37 PM
Ethylbenzene	BRL	1.0		µg/L	63551	1	10/24/2005 9:37 PM
m,p-Xylene	BRL	1.0		µg/L	63551	1	10/24/2005 9:37 PM
o-Xylene	BRL	1.0		µg/L	63551	1	10/24/2005 9:37 PM
Naphthalene	BRL	5.0		µg/L	63551	1	10/24/2005 9:37 PM
Surr: 4-Bromofluorobenzene	77.7	63.7-115		%REC	63551	1	10/24/2005 9:37 PM
Surr: Dibromofluoromethane	109	70.4-123		%REC	63551	1	10/24/2005 9:37 PM
Surr: Toluene-d8	100	73.4-115		%REC	63551	1	10/24/2005 9:37 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *25-Oct-05*

CLIENT: Consultech Environmental, Inc.
Project: George Souther's Grocery
Lab ID: 0510C07-004

Client Sample ID: GW-11
Collection Date: 10/21/2005 12:00:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **JTC**
Methyl tert-butyl ether	BRL	1.0		µg/L	63551	1	10/24/2005 9:09 PM
Benzene	BRL	1.0		µg/L	63551	1	10/24/2005 9:09 PM
Toluene	BRL	1.0		µg/L	63551	1	10/24/2005 9:09 PM
Ethylbenzene	BRL	1.0		µg/L	63551	1	10/24/2005 9:09 PM
m,p-Xylene	BRL	1.0		µg/L	63551	1	10/24/2005 9:09 PM
o-Xylene	BRL	1.0		µg/L	63551	1	10/24/2005 9:09 PM
Naphthalene	BRL	5.0		µg/L	63551	1	10/24/2005 9:09 PM
Surr: 4-Bromofluorobenzene	77.7	63.7-115		%REC	63551	1	10/24/2005 9:09 PM
Surr: Dibromofluoromethane	106	70.4-123		%REC	63551	1	10/24/2005 9:09 PM
Surr: Toluene-d8	99.2	73.4-115		%REC	63551	1	10/24/2005 9:09 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *25-Oct-05*

CLIENT: Consultech Environmental, Inc.
Project: George Souther's Grocery
Lab ID: 0510C07-005

Client Sample ID: GW-12
Collection Date: 10/21/2005 1:15:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **JTC**
Methyl tert-butyl ether	BRL	1.0		µg/L	63551	1	10/24/2005 10:58 PM
Benzene	290	100		µg/L	63551	100	10/25/2005 4:18 PM
Toluene	6900	100		µg/L	63551	100	10/25/2005 4:18 PM
Ethylbenzene	1000	100		µg/L	63551	100	10/25/2005 4:18 PM
m,p-Xylene	4400	100		µg/L	63551	100	10/25/2005 4:18 PM
o-Xylene	1800	100		µg/L	63551	100	10/25/2005 4:18 PM
Naphthalene	54	5.0		µg/L	63551	1	10/24/2005 10:58 PM
Surr: 4-Bromofluorobenzene	99.6	63.7-115		%REC	63551	100	10/25/2005 4:18 PM
Surr: 4-Bromofluorobenzene	99.1	63.7-115		%REC	63551	1	10/24/2005 10:58 PM
Surr: Dibromofluoromethane	91.3	70.4-123		%REC	63551	100	10/25/2005 4:18 PM
Surr: Dibromofluoromethane	90.0	70.4-123		%REC	63551	1	10/24/2005 10:58 PM
Surr: Toluene-d8	92.8	73.4-115		%REC	63551	100	10/25/2005 4:18 PM
Surr: Toluene-d8	107	73.4-115		%REC	63551	1	10/24/2005 10:58 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *25-Oct-05*

CLIENT: Consultech Environmental, Inc.
Project: George Souther's Grocery
Lab ID: 0510C07-006

Client Sample ID: GW-13
Collection Date: 10/21/2005 2:00:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **JTC**
Methyl tert-butyl ether	BRL	1.0		µg/L	63551	1	10/24/2005 6:53 PM
Benzene	1.1	1.0		µg/L	63551	1	10/24/2005 6:53 PM
Toluene	15	1.0		µg/L	63551	1	10/24/2005 6:53 PM
Ethylbenzene	1.3	1.0		µg/L	63551	1	10/24/2005 6:53 PM
m,p-Xylene	1.9	1.0		µg/L	63551	1	10/24/2005 6:53 PM
o-Xylene	3.7	1.0		µg/L	63551	1	10/24/2005 6:53 PM
Naphthalene	BRL	5.0		µg/L	63551	1	10/24/2005 6:53 PM
Surr: 4-Bromofluorobenzene	85.4	63.7-115		%REC	63551	1	10/24/2005 6:53 PM
Surr: Dibromofluoromethane	108	70.4-123		%REC	63551	1	10/24/2005 6:53 PM
Surr: Toluene-d8	99.2	73.4-115		%REC	63551	1	10/24/2005 6:53 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *25-Oct-05*

CLIENT: Consultech Environmental, Inc.
Project: George Souther's Grocery
Lab ID: 0510C07-007

Client Sample ID: GW-14
Collection Date: 10/21/2005 2:30:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **JTC**
Methyl tert-butyl ether	BRL	1.0		µg/L	63551	1	10/24/2005 7:48 PM
Benzene	1.8	1.0		µg/L	63551	1	10/24/2005 7:48 PM
Toluene	27	1.0		µg/L	63551	1	10/24/2005 7:48 PM
Ethylbenzene	2.4	1.0		µg/L	63551	1	10/24/2005 7:48 PM
m,p-Xylene	3.5	1.0		µg/L	63551	1	10/24/2005 7:48 PM
o-Xylene	7.1	1.0		µg/L	63551	1	10/24/2005 7:48 PM
Naphthalene	BRL	5.0		µg/L	63551	1	10/24/2005 7:48 PM
Surr: 4-Bromofluorobenzene	86.1	63.7-115		%REC	63551	1	10/24/2005 7:48 PM
Surr: Dibromofluoromethane	104	70.4-123		%REC	63551	1	10/24/2005 7:48 PM
Surr: Toluene-d8	98.1	73.4-115		%REC	63551	1	10/24/2005 7:48 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *25-Oct-05*

CLIENT: Consultech Environmental, Inc.
Project: George Souther's Grocery
Lab ID: 0510C07-008

Client Sample ID: GW-15
Collection Date: 10/21/2005 3:05:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **JTC**
Methyl tert-butyl ether	BRL	1.0		µg/L	63551	1	10/24/2005 7:21 PM
Benzene	1.8	1.0		µg/L	63551	1	10/24/2005 7:21 PM
Toluene	25	1.0		µg/L	63551	1	10/24/2005 7:21 PM
Ethylbenzene	2.1	1.0		µg/L	63551	1	10/24/2005 7:21 PM
m,p-Xylene	3.0	1.0		µg/L	63551	1	10/24/2005 7:21 PM
o-Xylene	6.3	1.0		µg/L	63551	1	10/24/2005 7:21 PM
Naphthalene	BRL	5.0		µg/L	63551	1	10/24/2005 7:21 PM
Surr: 4-Bromofluorobenzene	86.1	63.7-115		%REC	63551	1	10/24/2005 7:21 PM
Surr: Dibromofluoromethane	105	70.4-123		%REC	63551	1	10/24/2005 7:21 PM
Surr: Toluene-d8	99.1	73.4-115		%REC	63551	1	10/24/2005 7:21 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *25-Oct-05*

CLIENT: Consultech Environmental, Inc.
Project: George Souther's Grocery
Lab ID: 0510C07-009

Client Sample ID: TRIP BLANK
Collection Date: 10/20/2005
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **JTC**
Methyl tert-butyl ether	BRL	1.0		µg/L	63551	1	10/24/2005 6:26 PM
Benzene	BRL	1.0		µg/L	63551	1	10/24/2005 6:26 PM
Toluene	BRL	1.0		µg/L	63551	1	10/24/2005 6:26 PM
Ethylbenzene	BRL	1.0		µg/L	63551	1	10/24/2005 6:26 PM
m,p-Xylene	BRL	1.0		µg/L	63551	1	10/24/2005 6:26 PM
o-Xylene	BRL	1.0		µg/L	63551	1	10/24/2005 6:26 PM
Naphthalene	BRL	5.0		µg/L	63551	1	10/24/2005 6:26 PM
Surr: 4-Bromofluorobenzene	79.5	63.7-115		%REC	63551	1	10/24/2005 6:26 PM
Surr: Dibromofluoromethane	108	70.4-123		%REC	63551	1	10/24/2005 6:26 PM
Surr: Toluene-d8	98.0	73.4-115		%REC	63551	1	10/24/2005 6:26 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *25-Oct-05*

CLIENT: Consultech Environmental, Inc.
Work Order: 0510C07
Project: George Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID **MB-63551** SampType: **MBLK** TestCode: **8260B_W** Units: **µg/L** Prep Date: **10/24/2005** RunNo: **73707**
Client ID: Batch ID: **63551** TestNo: **SW8260B** Analysis Date: **10/24/2005** SeqNo: **1454381**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	BRL	5.0									
Ethylbenzene	BRL	5.0									
m,p-Xylene	BRL	10									
Methyl tert-butyl ether	BRL	5.0									
Naphthalene	BRL	5.0									
o-Xylene	BRL	5.0									
Toluene	BRL	5.0									
Surr: 4-Bromofluorobenzene	40.9	5.0	50	0	81.8	63.7	115	0	0		
Surr: Dibromofluoromethane	53.29	5.0	50	0	107	70.4	123	0	0		
Surr: Toluene-d8	48.45	5.0	50	0	96.9	73.4	115	0	0		

Sample ID **LCS-63551** SampType: **LCS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **10/24/2005** RunNo: **73707**
Client ID: Batch ID: **63551** TestNo: **SW8260B** Analysis Date: **10/24/2005** SeqNo: **1454382**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	54.15	5.0	50	0	108	77.4	127	0	0		
Toluene	54.15	5.0	50	0	108	79.6	127	0	0		
Surr: 4-Bromofluorobenzene	40.94	5.0	50	0	81.9	63.7	115	0	0		
Surr: Dibromofluoromethane	51	5.0	50	0	102	70.4	123	0	0		
Surr: Toluene-d8	47.85	5.0	50	0	95.7	73.4	115	0	0		

Sample ID **0510C07-007AMS** SampType: **MS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **10/24/2005** RunNo: **73707**
Client ID: **GW-14** Batch ID: **63551** TestNo: **SW8260B** Analysis Date: **10/24/2005** SeqNo: **1454420**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	55.01	5.0	50	1.83	106	72.6	130	0	0		
Toluene	82.39	5.0	50	26.63	112	74.7	129	0	0		
Surr: 4-Bromofluorobenzene	42.97	5.0	50	0	85.9	63.7	115	0	0		
Surr: Dibromofluoromethane	50.55	5.0	50	0	101	70.4	123	0	0		

Qualifiers:
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- BRL Below Reporting Limit
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0510C07
Project: George Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID	0510C07-007AMS	SampType:	MS	TestCode:	8260B_W	Units:	µg/L	Prep Date:	10/24/2005	RunNo:	73707
Client ID:	GW-14	Batch ID:	63551	TestNo:	SW8260B			Analysis Date:	10/24/2005	SeqNo:	1454420

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	48.81	5.0	50	0	97.6	73.4	115	0	0		

Sample ID	0510C07-007AMSD	SampType:	MSD	TestCode:	8260B_W	Units:	µg/L	Prep Date:	10/24/2005	RunNo:	73707
Client ID:	GW-14	Batch ID:	63551	TestNo:	SW8260B			Analysis Date:	10/24/2005	SeqNo:	1454421

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	53.84	5.0	50	1.83	104	72.6	130	55.01	2.15	10	
Toluene	79.44	5.0	50	26.63	106	74.7	129	82.39	3.65	10	
Surr: 4-Bromofluorobenzene	41.04	5.0	50	0	82.1	63.7	115	42.97	0	0	
Surr: Dibromofluoromethane	50.72	5.0	50	0	101	70.4	123	50.55	0	0	
Surr: Toluene-d8	48.22	5.0	50	0	96.4	73.4	115	48.81	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

November 02, 2005

Jim Wilson
Consultech Environmental, Inc.
1800 MacLeod Rd
Suite F
Lawrenceville, GA 30043

TEL: (678) 377-0400
FAX (678) 377-0051

RE: George Southers Grocery

Order No.: 0511004

Dear Jim Wilson:

Analytical Environmental Services, Inc. received 2 samples on 11/1/2005 8:00:00 AM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. Sample results are not dry weight corrected, unless if Pmoist analysis are requested on the chain of custody or other project specific arrangements have been made.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 06/01/05-06/30/06.
-AIHA Certification number 505 for analysis of Industrial Hygiene samples (Organics, Inorganics), Paint Chips, Soil and Dust Wipes, effective until 02/01/07.

These results relate only to the items tested. This report may only be reproduced in full and contains 8 total pages (including cover letter).

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

Sincerely,

Mila Crain

Mila Crain
Customer Service Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 0511004

Date: 10/31/05 Page 1 of 1

COMPANY: Consultech

ADDRESS: 1800 Macland Suite F Lville, GA 30043

PHONE: 678-377-0400

FAX: 678-377-0051

SAMPLED BY: Kevin VanDeVusse

SIGNATURE: VanDeVusse

ANALYSIS REQUESTED: 8260 B TEX / MTBE / NAPH

PRESERVATION (See codes): Y

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	No # of Containers	REMARKS
1	GW-16	10/31/05	1250	✓		GW	2	
2								
3	GW-17	10/31/05	1320	✓		GW	2	
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: [signature]	11/1/05 8:05	1: [signature]	11/1/05 8:00
2:		2:	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS: 100% Rush

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER_____

PROJECT INFORMATION
PROJECT NAME: 05-02-015 George Southern Grocery
PROJECT #: 05-02-015
SITE ADDRESS: Campobello, SC
SEND REPORT TO: Jim Wilson
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #:_____ PO#:_____

RECEIPT
Total # of Containers

Turnaround Time Request
- Standard 5 Business Days
- 2 Business Day Rush
- Next Business Day Rush
- Same Day Rush (auth req.)
- Other _____

STATE PROGRAM (if any): _____
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc. **Date:** *02-Nov-05*

CLIENT: Consultech Environmental, Inc.
Project: George Southers Grocery
Lab Order: 0511004

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 4th Edition. All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives unless indicated in the case narrative.

Analytical Environmental Services, Inc.

Date: *02-Nov-05*

CLIENT: Consultech Environmental, Inc.
Project: George Southers Grocery
Lab ID: 0511004-001

Client Sample ID: GW-16
Collection Date: 10/31/2005 12:50:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **TMP**
Methyl tert-butyl ether	BRL	1.0		µg/L	63877	1	11/1/2005 5:35 PM
Benzene	BRL	1.0		µg/L	63877	1	11/1/2005 5:35 PM
Toluene	10	1.0		µg/L	63877	1	11/1/2005 5:35 PM
Ethylbenzene	BRL	1.0		µg/L	63877	1	11/1/2005 5:35 PM
m,p-Xylene	3.0	1.0		µg/L	63877	1	11/1/2005 5:35 PM
o-Xylene	1.3	1.0		µg/L	63877	1	11/1/2005 5:35 PM
Naphthalene	BRL	5.0		µg/L	63877	1	11/1/2005 5:35 PM
Surr: 4-Bromofluorobenzene	82.6	63.7-115		%REC	63877	1	11/1/2005 5:35 PM
Surr: Dibromofluoromethane	88.5	70.4-123		%REC	63877	1	11/1/2005 5:35 PM
Surr: Toluene-d8	96.3	73.4-115		%REC	63877	1	11/1/2005 5:35 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *02-Nov-05*

CLIENT: Consultech Environmental, Inc.
Project: George Southers Grocery
Lab ID: 0511004-002

Client Sample ID: GW-17
Collection Date: 10/31/2005 1:20:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **TMP**
Methyl tert-butyl ether	BRL	1.0		µg/L	63877	1	11/1/2005 5:09 PM
Benzene	BRL	1.0		µg/L	63877	1	11/1/2005 5:09 PM
Toluene	5.4	1.0		µg/L	63877	1	11/1/2005 5:09 PM
Ethylbenzene	BRL	1.0		µg/L	63877	1	11/1/2005 5:09 PM
m,p-Xylene	1.5	1.0		µg/L	63877	1	11/1/2005 5:09 PM
o-Xylene	BRL	1.0		µg/L	63877	1	11/1/2005 5:09 PM
Naphthalene	BRL	5.0		µg/L	63877	1	11/1/2005 5:09 PM
Surr: 4-Bromofluorobenzene	78.2	63.7-115		%REC	63877	1	11/1/2005 5:09 PM
Surr: Dibromofluoromethane	88.7	70.4-123		%REC	63877	1	11/1/2005 5:09 PM
Surr: Toluene-d8	94.2	73.4-115		%REC	63877	1	11/1/2005 5:09 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *02-Nov-05*

CLIENT: Consultech Environmental, Inc.
Work Order: 0511004
Project: George Southers Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID **MB-63877** SampType: **MBLK** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/1/2005** RunNo: **74129**
Client ID: Batch ID: **63877** TestNo: **SW8260B** Analysis Date: **11/1/2005** SeqNo: **1463324**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	BRL	5.0									
Ethylbenzene	BRL	5.0									
m,p-Xylene	BRL	10									
Methyl tert-butyl ether	BRL	5.0									
Naphthalene	BRL	5.0									
o-Xylene	BRL	5.0									
Toluene	BRL	5.0									
Surr: 4-Bromofluorobenzene	42.62	5.0	50	0	85.2	63.7	115	0	0		
Surr: Dibromofluoromethane	47.53	5.0	50	0	95.1	70.4	123	0	0		
Surr: Toluene-d8	47.12	5.0	50	0	94.2	73.4	115	0	0		

Sample ID **LCS-63877** SampType: **LCS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/1/2005** RunNo: **74129**
Client ID: Batch ID: **63877** TestNo: **SW8260B** Analysis Date: **11/1/2005** SeqNo: **1463325**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	59.28	5.0	50	0	119	77.4	127	0	0		
Toluene	58.35	5.0	50	0	117	79.6	127	0	0		
Surr: 4-Bromofluorobenzene	41.15	5.0	50	0	82.3	63.7	115	0	0		
Surr: Dibromofluoromethane	45.98	5.0	50	0	92	70.4	123	0	0		
Surr: Toluene-d8	47.05	5.0	50	0	94.1	73.4	115	0	0		

Sample ID **0510E34-020AMS** SampType: **MS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/1/2005** RunNo: **74129**
Client ID: Batch ID: **63877** TestNo: **SW8260B** Analysis Date: **11/1/2005** SeqNo: **1463365**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	61.38	5.0	50	0	123	72.6	130	0	0		
Toluene	62.28	5.0	50	0	125	74.7	129	0	0		
Surr: 4-Bromofluorobenzene	40.03	5.0	50	0	80.1	63.7	115	0	0		
Surr: Dibromofluoromethane	45.22	5.0	50	0	90.4	70.4	123	0	0		

Qualifiers:
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0511004
Project: George Southers Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID **0510E34-020AMS** SampType: **MS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/1/2005** RunNo: **74129**
Client ID: Batch ID: **63877** TestNo: **SW8260B** Analysis Date: **11/1/2005** SeqNo: **1463365**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	46.99	5.0	50	0	94	73.4	115	0	0		

Sample ID **0510E34-020AMSD** SampType: **MSD** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/1/2005** RunNo: **74129**
Client ID: Batch ID: **63877** TestNo: **SW8260B** Analysis Date: **11/1/2005** SeqNo: **1463366**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	61.37	5.0	50	0	123	72.6	130	61.38	0.0163	10	
Toluene	61.6	5.0	50	0	123	74.7	129	62.28	1.10	10	
Surr: 4-Bromofluorobenzene	40.73	5.0	50	0	81.5	63.7	115	40.03	0	0	
Surr: Dibromofluoromethane	44.21	5.0	50	0	88.4	70.4	123	45.22	0	0	
Surr: Toluene-d8	47.1	5.0	50	0	94.2	73.4	115	46.99	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

November 29, 2005

Jim Wilson
Consultech Environmental, Inc.
1800 MacLeod Rd Suite F
Suite F
Lawrenceville, GA 30043

TEL: (678) 377-0400
FAX (678) 377-0051

RE: George Southers Grocery

Order No.: 0511B44

Dear Jim Wilson:

Analytical Environmental Services, Inc. received 8 samples on 11/21/2005 9:37:00 AM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. Sample results are not dry weight corrected, unless if Pmoist analysis are requested on the chain of custody or other project specific arrangements have been made.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 06/01/05-06/30/06.
-AIHA Certification number 505 for analysis of Industrial Hygiene samples (Organics, Inorganics), Paint Chips, Soil and Dust Wipes, effective until 02/01/07.

These results relate only to the items tested. This report may only be reproduced in full and contains 19 total pages (including cover letter).

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

Sincerely,

Mila Crain

Mila Crain
Customer Service Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770) 457-8188

ANALYTICAL ENVIRONMENTAL SERVICES, INC
378[illegible]idential Parkway, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 511B94

Date: _____ Page _____ of _____

COMPANY: Consultech Env.

ADDRESS: 1800 Macleod Dr. Suite F. Lawrenceville 30043

PHONE: 678-377-0400

FAX:

SAMPLED BY: Drew Miller

SIGNATURE: Drew Miller

ANALYSIS REQUESTED: BTEX MTBE EDB & Chlorinated Pesticides; Total Lead; EDB 8011

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	BTEX MTBE EDB & Chlorinated Pesticides (H+I)	Total Lead (N)	EDB 8011 (H)	REMARKS	No # of Containers
1	MW-1	11/18	1000	✓		GW	2	1	2		5
2	MW 3	11/18	1030								
3	MW-4	11/18	1045								
4	MW-7	11/18	1115								
5	MW-9	11/18	1245								
6	MW-5	11/18	1100								
7	MW-14	11/18	1245	✓		✓	✓	✓	✓		✓
8											
9											
10											
11											
12											
13											
14											

PRESERVATION (See codes)

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: Drew Miller	11/21 9:37	1: Marcus D Robinson	11-21-05 9:37
2:		2:	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
(CLIENT) FedEx UPS MAIL COURIER
GREYHOUND OTHER_____

PROJECT INFORMATION
PROJECT NAME: GEORGE Southern Grocery
PROJECT #: SC-05-02-015
SITE ADDRESS:
SEND REPORT TO: Jim Wilson
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers

Turnaround Time Request
- (X) Standard 5 Business Days
- ( ) 2 Business Day Rush
- ( ) Next Business Day Rush
- ( ) Same Day Rush (auth req.)
- ( ) Other _____

STATE PROGRAM (if any): _____
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc.

Date: *09-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: George Southers Grocery
Lab Order: 0511B44

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 4th Edition. All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives unless indicated in the case narrative.

Volatile Organic Compounds Analysis by Method 8260B:

Matrix spike and matrix spike duplicate recoveries for tert-Butyl formate on sample 0511B44-003AMS/MSD were outside control limits biased low. LCS recovery was within control limits indicating possible matrix interference.

Matrix spike duplicate recovery for tert-Butyl alcohol on sample 0511B44-003AMSD was outside control limits biased high. LCS recovery was within control limits indicating possible matrix interference.

RPD value for tert-Butyl formate on sample 0511B44-003AMSD was outside advisory control limits. The greater than expected variability was the result of values at or near the reporting limit.

Due to sample matrix, samples 0511B44-001A, -004A, -005A, and -006A required dilution during preparation and/or analysis resulting in elevated reporting limits.

EDB Analysis by Method 8011:

Percent recoveries for the surrogate spiking compound on samples 0511B44-001B, MS, MSD, 002B, 004B, 005B and 006B were outside control limits biased low due to matrix interference.

Matrix spike recovery for EDB on sample 0511B44-001B was outside control limits due to insignificant spike amount as compared to sample concentration. LCS recovery was within control limits.

EDB value for the QC sample 0511B44-001BMS is "E" qualified indicating an estimated value over linear calibration range due to the level of target analyte present in the unspiked sample.

Analytical Environmental Services, Inc.

Date: *09-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: George Southers Grocery
Lab ID: 0511B44-001

Client Sample ID: MW-1
Collection Date: 11/18/2005 10:00:00 AM
Matrix: GRQUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	322	96.0		µg/L	64687	5000	11/28/2005 3:44 PM
Surr: 4-Bromofluorobenzene	0	39.4-142	S	%REC	64687	1	11/25/2005 4:03 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	402	1.00		µg/L	64698	1	11/23/2005 3:08 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	12000	N	µg/L	64700	500	11/22/2005 8:12 PM
Ethyl tert-butyl alcohol	BRL	2500	N	µg/L	64700	500	11/22/2005 8:12 PM
Ethyl tert-butyl ether	BRL	2500	N	µg/L	64700	500	11/22/2005 8:12 PM
Isopropyl ether	52000	2500	N	µg/L	64700	500	11/22/2005 8:12 PM
tert-Amyl alcohol	BRL	2500	N	µg/L	64700	500	11/22/2005 8:12 PM
tert-Amyl methyl ether	BRL	2500	N	µg/L	64700	500	11/22/2005 8:12 PM
tert-Butyl Alcohol	BRL	2500	N	µg/L	64700	500	11/22/2005 8:12 PM
tert-Butyl formate	BRL	2500	N	µg/L	64700	500	11/22/2005 8:12 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	10000	500		µg/L	64700	500	11/22/2005 8:12 PM
Benzene	45000	500		µg/L	64700	500	11/22/2005 8:12 PM
1,2-Dichloroethane	BRL	2500		µg/L	64700	500	11/22/2005 8:12 PM
Toluene	620000	5000		µg/L	64700	5000	11/28/2005 12:05 PM
Ethylbenzene	22000	500		µg/L	64700	500	11/22/2005 8:12 PM
m,p-Xylene	79000	500		µg/L	64700	500	11/22/2005 8:12 PM
o-Xylene	29000	500		µg/L	64700	500	11/22/2005 8:12 PM
Naphthalene	6200	2500		µg/L	64700	500	11/22/2005 8:12 PM
Surr: 4-Bromofluorobenzene	95.5	63.7-115		%REC	64700	500	11/22/2005 8:12 PM
Surr: 4-Bromofluorobenzene	87.2	63.7-115		%REC	64700	5000	11/28/2005 12:05 PM
Surr: Dibromofluoromethane	83.9	70.4-123		%REC	64700	5000	11/28/2005 12:05 PM
Surr: Dibromofluoromethane	78.9	70.4-123		%REC	64700	500	11/22/2005 8:12 PM
Surr: Toluene-d8	93.0	73.4-115		%REC	64700	5000	11/28/2005 12:05 PM
Surr: Toluene-d8	93.5	73.4-115		%REC	64700	500	11/22/2005 8:12 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *09-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: George Southers Grocery
Lab ID: 0511B44-002

Client Sample ID: MW-3
Collection Date: 11/18/2005 10:30:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	564	99.0		µg/L	64686	5000	11/25/2005 12:34 PM
Surr: 4-Bromofluorobenzene	0	39.4-142	S	%REC	64686	1	11/25/2005 9:08 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	71.4	1.00		µg/L	64698	1	11/23/2005 2:52 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64700	1	11/22/2005 8:37 PM
Ethyl tert-butyl alcohol	35000	2500	N	µg/L	64700	500	11/28/2005 12:30 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64700	1	11/22/2005 8:37 PM
Isopropyl ether	24000	2500	N	µg/L	64700	500	11/28/2005 12:30 PM
tert-Amyl alcohol	120000	2500	N	µg/L	64700	500	11/28/2005 12:30 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64700	1	11/22/2005 8:37 PM
tert-Butyl Alcohol	13000	2500	N	µg/L	64700	500	11/28/2005 12:30 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64700	1	11/22/2005 8:37 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64700	1	11/22/2005 8:37 PM
Benzene	36000	500		µg/L	64700	500	11/28/2005 12:30 PM
1,2-Dichloroethane	1300	1000		µg/L	64700	500	11/28/2005 12:30 PM
Toluene	46000	500		µg/L	64700	500	11/28/2005 12:30 PM
Ethylbenzene	1700	500		µg/L	64700	500	11/28/2005 12:30 PM
m,p-Xylene	7700	500		µg/L	64700	500	11/28/2005 12:30 PM
o-Xylene	4100	500		µg/L	64700	500	11/28/2005 12:30 PM
Naphthalene	2600	2500		µg/L	64700	500	11/28/2005 12:30 PM
Surr: 4-Bromofluorobenzene	86.3	63.7-115		%REC	64700	500	11/28/2005 12:30 PM
Surr: 4-Bromofluorobenzene	99.2	63.7-115		%REC	64700	1	11/22/2005 8:37 PM
Surr: Dibromofluoromethane	82.6	70.4-123		%REC	64700	500	11/28/2005 12:30 PM
Surr: Dibromofluoromethane	81.5	70.4-123		%REC	64700	1	11/22/2005 8:37 PM
Surr: Toluene-d8	107	73.4-115		%REC	64700	1	11/22/2005 8:37 PM
Surr: Toluene-d8	88.8	73.4-115		%REC	64700	500	11/28/2005 12:30 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *09-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: George Southers Grocery
Lab ID: 0511B44-003

Client Sample ID: MW-4
Collection Date: 11/18/2005 10:45:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	0.211	0.020		µg/L	64686	1	11/25/2005 9:31 AM
Surr: 4-Bromofluorobenzene	83.5	39.4-142		%REC	64686	1	11/25/2005 9:31 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	1.20	1.00		µg/L	64698	1	11/23/2005 3:13 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64700	1	11/22/2005 5:17 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64700	1	11/22/2005 5:17 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64700	1	11/22/2005 5:17 PM
Isopropyl ether	BRL	5.0	N	µg/L	64700	1	11/22/2005 5:17 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64700	1	11/22/2005 5:17 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64700	1	11/22/2005 5:17 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64700	1	11/22/2005 5:17 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64700	1	11/22/2005 5:17 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	3.6	1.0		µg/L	64700	1	11/22/2005 5:17 PM
Benzene	6.4	1.0		µg/L	64700	1	11/22/2005 5:17 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64700	1	11/22/2005 5:17 PM
Toluene	28	1.0		µg/L	64700	1	11/22/2005 5:17 PM
Ethylbenzene	4.0	1.0		µg/L	64700	1	11/22/2005 5:17 PM
m,p-Xylene	17	1.0		µg/L	64700	1	11/22/2005 5:17 PM
o-Xylene	9.0	1.0		µg/L	64700	1	11/22/2005 5:17 PM
Naphthalene	12	5.0		µg/L	64700	1	11/22/2005 5:17 PM
Surr: 4-Bromofluorobenzene	93.7	63.7-115		%REC	64700	1	11/22/2005 5:17 PM
Surr: Dibromofluoromethane	85.7	70.4-123		%REC	64700	1	11/22/2005 5:17 PM
Surr: Toluene-d8	90.7	73.4-115		%REC	64700	1	11/22/2005 5:17 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *09-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: George Southers Grocery
Lab ID: 0511B44-004

Client Sample ID: MW-7
Collection Date: 11/18/2005 11:15:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	246	20.0		µg/L	64686	1000	11/25/2005 12:58 PM
Surr: 4-Bromofluorobenzene	0	39.4-142	S	%REC	64686	1	11/25/2005 9:54 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	78.8	1.00		µg/L	64698	1	11/23/2005 3:18 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	12000	N	µg/L	64700	500	11/22/2005 7:22 PM
Ethyl tert-butyl alcohol	BRL	2500	N	µg/L	64700	500	11/22/2005 7:22 PM
Ethyl tert-butyl ether	BRL	2500	N	µg/L	64700	500	11/22/2005 7:22 PM
Isopropyl ether	62000	2500	N	µg/L	64700	500	11/22/2005 7:22 PM
tert-Amyl alcohol	BRL	2500	N	µg/L	64700	500	11/22/2005 7:22 PM
tert-Amyl methyl ether	BRL	2500	N	µg/L	64700	500	11/22/2005 7:22 PM
tert-Butyl Alcohol	BRL	2500	N	µg/L	64700	500	11/22/2005 7:22 PM
tert-Butyl formate	BRL	2500	N	µg/L	64700	500	11/22/2005 7:22 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	500		µg/L	64700	500	11/22/2005 7:22 PM
Benzene	35000	500		µg/L	64700	500	11/22/2005 7:22 PM
1,2-Dichloroethane	BRL	2500		µg/L	64700	500	11/22/2005 7:22 PM
Toluene	71000	500		µg/L	64700	500	11/22/2005 7:22 PM
Ethylbenzene	3500	500		µg/L	64700	500	11/22/2005 7:22 PM
m,p-Xylene	14000	500		µg/L	64700	500	11/22/2005 7:22 PM
o-Xylene	6400	500		µg/L	64700	500	11/22/2005 7:22 PM
Naphthalene	2700	2500		µg/L	64700	500	11/22/2005 7:22 PM
Surr: 4-Bromofluorobenzene	95.6	63.7-115		%REC	64700	500	11/22/2005 7:22 PM
Surr: Dibromofluoromethane	81.8	70.4-123		%REC	64700	500	11/22/2005 7:22 PM
Surr: Toluene-d8	89.6	73.4-115		%REC	64700	500	11/22/2005 7:22 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *09-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: George Southers Grocery
Lab ID: 0511B44-005

Client Sample ID: MW-9
Collection Date: 11/18/2005 11:45:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	802	99.6		µg/L	64686	5000	11/25/2005 1:21 PM
Surr: 4-Bromofluorobenzene	0	39.4-142	S	%REC	64686	1	11/25/2005 10:39 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	3.14	1.00		µg/L	64698	1	11/23/2005 3:24 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	12000	N	µg/L	64700	500	11/22/2005 7:47 PM
Ethyl tert-butyl alcohol	BRL	2500	N	µg/L	64700	500	11/22/2005 7:47 PM
Ethyl tert-butyl ether	BRL	2500	N	µg/L	64700	500	11/22/2005 7:47 PM
Isopropyl ether	8300	2500	N	µg/L	64700	500	11/22/2005 7:47 PM
tert-Amyl alcohol	97000	2500	N	µg/L	64700	500	11/22/2005 7:47 PM
tert-Amyl methyl ether	BRL	2500	N	µg/L	64700	500	11/22/2005 7:47 PM
tert-Butyl Alcohol	BRL	2500	N	µg/L	64700	500	11/22/2005 7:47 PM
tert-Butyl formate	BRL	2500	N	µg/L	64700	500	11/22/2005 7:47 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	500		µg/L	64700	500	11/22/2005 7:47 PM
Benzene	25000	500		µg/L	64700	500	11/22/2005 7:47 PM
1,2-Dichloroethane	1300	1000		µg/L	64700	500	11/22/2005 7:47 PM
Toluene	22000	500		µg/L	64700	500	11/22/2005 7:47 PM
Ethylbenzene	1100	500		µg/L	64700	500	11/22/2005 7:47 PM
m,p-Xylene	4600	500		µg/L	64700	500	11/22/2005 7:47 PM
o-Xylene	3000	500		µg/L	64700	500	11/22/2005 7:47 PM
Naphthalene	2600	2500		µg/L	64700	500	11/22/2005 7:47 PM
Surr: 4-Bromofluorobenzene	94.0	63.7-115		%REC	64700	500	11/22/2005 7:47 PM
Surr: Dibromofluoromethane	83.0	70.4-123		%REC	64700	500	11/22/2005 7:47 PM
Surr: Toluene-d8	90.9	73.4-115		%REC	64700	500	11/22/2005 7:47 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *09-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: George Southers Grocery
Lab ID: 0511B44-006

Client Sample ID: MW-5
Collection Date: 11/18/2005 11:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	1280	103		µg/L	64686	5000	11/25/2005 1:44 PM
Surr: 4-Bromofluorobenzene	0	39.4-142	S	%REC	64686	1	11/25/2005 11:02 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	512	1.00		µg/L	64698	1	11/23/2005 3:29 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	12000	N	µg/L	64700	500	11/22/2005 6:57 PM
Ethyl tert-butyl alcohol	37000	2500	N	µg/L	64700	500	11/22/2005 6:57 PM
Ethyl tert-butyl ether	BRL	2500	N	µg/L	64700	500	11/22/2005 6:57 PM
Isopropyl ether	29000	2500	N	µg/L	64700	500	11/22/2005 6:57 PM
tert-Amyl alcohol	230000	2500	N	µg/L	64700	500	11/22/2005 6:57 PM
tert-Amyl methyl ether	BRL	2500	N	µg/L	64700	500	11/22/2005 6:57 PM
tert-Butyl Alcohol	BRL	2500	N	µg/L	64700	500	11/22/2005 6:57 PM
tert-Butyl formate	BRL	2500	N	µg/L	64700	500	11/22/2005 6:57 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	500		µg/L	64700	500	11/22/2005 6:57 PM
Benzene	40000	500		µg/L	64700	500	11/22/2005 6:57 PM
1,2-Dichloroethane	1400	1000		µg/L	64700	500	11/22/2005 6:57 PM
Toluene	59000	500		µg/L	64700	500	11/22/2005 6:57 PM
Ethylbenzene	3200	500		µg/L	64700	500	11/22/2005 6:57 PM
m,p-Xylene	12000	500		µg/L	64700	500	11/22/2005 6:57 PM
o-Xylene	6000	500		µg/L	64700	500	11/22/2005 6:57 PM
Naphthalene	5500	2500		µg/L	64700	500	11/22/2005 6:57 PM
Surr: 4-Bromofluorobenzene	94.5	63.7-115		%REC	64700	500	11/22/2005 6:57 PM
Surr: Dibromofluoromethane	80.5	70.4-123		%REC	64700	500	11/22/2005 6:57 PM
Surr: Toluene-d8	90.6	73.4-115		%REC	64700	500	11/22/2005 6:57 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *09-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: George Southers Grocery
Lab ID: 0511B44-007

Client Sample ID: MW-17
Collection Date: 11/18/2005 12:45:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	0.239	0.020		µg/L	64686	1	11/25/2005 12:11 PM
Surr: 4-Bromofluorobenzene	68.7	39.4-142		%REC	64686	1	11/25/2005 12:11 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	2.68	1.00		µg/L	64698	1	11/23/2005 3:45 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64700	1	11/22/2005 6:32 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64700	1	11/22/2005 6:32 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64700	1	11/22/2005 6:32 PM
Isopropyl ether	BRL	5.0	N	µg/L	64700	1	11/22/2005 6:32 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64700	1	11/22/2005 6:32 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64700	1	11/22/2005 6:32 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64700	1	11/22/2005 6:32 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64700	1	11/22/2005 6:32 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64700	1	11/22/2005 6:32 PM
Benzene	7.8	1.0		µg/L	64700	1	11/22/2005 6:32 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64700	1	11/22/2005 6:32 PM
Toluene	32	1.0		µg/L	64700	1	11/22/2005 6:32 PM
Ethylbenzene	5.2	1.0		µg/L	64700	1	11/22/2005 6:32 PM
m,p-Xylene	21	1.0		µg/L	64700	1	11/22/2005 6:32 PM
o-Xylene	11	1.0		µg/L	64700	1	11/22/2005 6:32 PM
Naphthalene	13	5.0		µg/L	64700	1	11/22/2005 6:32 PM
Surr: 4-Bromofluorobenzene	94.8	63.7-115		%REC	64700	1	11/22/2005 6:32 PM
Surr: Dibromofluoromethane	85.2	70.4-123		%REC	64700	1	11/22/2005 6:32 PM
Surr: Toluene-d8	94.2	73.4-115		%REC	64700	1	11/22/2005 6:32 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *09-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: George Southers Grocery
Lab ID: 0511B44-008

Client Sample ID: TRIP BLANK
Collection Date: 11/18/2005
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64700	1	11/22/2005 4:02 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64700	1	11/22/2005 4:02 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64700	1	11/22/2005 4:02 PM
Isopropyl ether	BRL	5.0	N	µg/L	64700	1	11/22/2005 4:02 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64700	1	11/22/2005 4:02 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64700	1	11/22/2005 4:02 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64700	1	11/22/2005 4:02 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64700	1	11/22/2005 4:02 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64700	1	11/22/2005 4:02 PM
Benzene	BRL	1.0		µg/L	64700	1	11/22/2005 4:02 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64700	1	11/22/2005 4:02 PM
Toluene	BRL	1.0		µg/L	64700	1	11/22/2005 4:02 PM
Ethylbenzene	BRL	1.0		µg/L	64700	1	11/22/2005 4:02 PM
m,p-Xylene	BRL	1.0		µg/L	64700	1	11/22/2005 4:02 PM
o-Xylene	BRL	1.0		µg/L	64700	1	11/22/2005 4:02 PM
Naphthalene	BRL	5.0		µg/L	64700	1	11/22/2005 4:02 PM
Surr: 4-Bromofluorobenzene	82.8	63.7-115		%REC	64700	1	11/22/2005 4:02 PM
Surr: Dibromofluoromethane	89.4	70.4-123		%REC	64700	1	11/22/2005 4:02 PM
Surr: Toluene-d8	93.3	73.4-115		%REC	64700	1	11/22/2005 4:02 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *29-Nov-05*

CLIENT: Consultech Environmental, Inc.
Work Order: 0511B44
Project: George Southers Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W

Sample ID **MB-64698** SampType: **MBLK** TestCode: **6020_W** Units: **µg/L** Prep Date: **11/23/2005** RunNo: **75293**
Client ID: Batch ID: **64698** TestNo: **SW6020** Analysis Date: **11/23/2005** SeqNo: **1488930**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	BRL	1.00									

Sample ID **LCS-64698** SampType: **LCS** TestCode: **6020_W** Units: **µg/L** Prep Date: **11/23/2005** RunNo: **75293**
Client ID: Batch ID: **64698** TestNo: **SW6020** Analysis Date: **11/23/2005** SeqNo: **1488928**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	104	1.00	100	0	104	85	115	0	0		

Sample ID **0511B44-002CMS** SampType: **MS** TestCode: **6020_W** Units: **µg/L** Prep Date: **11/23/2005** RunNo: **75293**
Client ID: **MW-3** Batch ID: **64698** TestNo: **SW6020** Analysis Date: **11/23/2005** SeqNo: **1488932**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	174.2	1.00	100	71.39	103	70	130	0	0		

Sample ID **0511B44-002CMSD** SampType: **MSD** TestCode: **6020_W** Units: **µg/L** Prep Date: **11/23/2005** RunNo: **75293**
Client ID: **MW-3** Batch ID: **64698** TestNo: **SW6020** Analysis Date: **11/23/2005** SeqNo: **1488934**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	174.6	1.00	100	71.39	103	70	130	174.2	0.229	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0511B44
Project: George Southers Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8011_W

Sample ID **MB-64686** SampType: **MBLK** TestCode: **8011_W** Units: **µg/L** Prep Date: **11/22/2005** RunNo: **75306**
Client ID: Batch ID: **64686** TestNo: **SW8011** Analysis Date: **11/25/2005** SeqNo: **1489273**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	BRL	0.0200									
Surr: 4-Bromofluorobenzene	4.806	0.0500	5	0	96.1	39.4	142	0	0		

Sample ID **MB-64687** SampType: **MBLK** TestCode: **8011_W** Units: **µg/L** Prep Date: **11/22/2005** RunNo: **75355**
Client ID: Batch ID: **64687** TestNo: **SW8011** Analysis Date: **11/25/2005** SeqNo: **1490336**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	BRL	0.0200									
Surr: 4-Bromofluorobenzene	5.173	0.0500	5	0	103	39.4	142	0	0		

Sample ID **LCS-64686** SampType: **LCS** TestCode: **8011_W** Units: **µg/L** Prep Date: **11/22/2005** RunNo: **75306**
Client ID: Batch ID: **64686** TestNo: **SW8011** Analysis Date: **11/25/2005** SeqNo: **1489274**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.087	0.0200	0.1	0	87	55.1	139	0	0		
Surr: 4-Bromofluorobenzene	5.144	0.0500	5	0	103	39.4	142	0	0		

Sample ID **LCS-64687** SampType: **LCS** TestCode: **8011_W** Units: **µg/L** Prep Date: **11/22/2005** RunNo: **75355**
Client ID: Batch ID: **64687** TestNo: **SW8011** Analysis Date: **11/25/2005** SeqNo: **1490339**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.095	0.0200	0.1	0	95	55.1	139	0	0		
Surr: 4-Bromofluorobenzene	5.371	0.0500	5	0	107	39.4	142	0	0		

Sample ID **LCSD-64686** SampType: **LCSD** TestCode: **8011_W** Units: **µg/L** Prep Date: **11/22/2005** RunNo: **75306**
Client ID: Batch ID: **64686** TestNo: **SW8011** Analysis Date: **11/25/2005** SeqNo: **1489275**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.087	0.0200	0.1	0	87	55.1	139	0.087	0	18.5	
Surr: 4-Bromofluorobenzene	5.094	0.0500	5	0	102	39.4	142	5.144	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0511B44
Project: George Southers Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8011_W

Sample ID LCSD-64687	SampType: LCSD	TestCode: 8011_W	Units: µg/L	Prep Date: 11/22/2005	RunNo: 75355
Client ID:	Batch ID: 64687	TestNo: SW8011		Analysis Date: 11/25/2005	SeqNo: 1490340

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.088	0.0200	0.1	0	88	55.1	139	0.095	7.65	18.5	
Surr: 4-Bromofluorobenzene	4.803	0.0500	5	0	96.1	39.4	142	5.371	0	0	

Sample ID 0511A01-021BMS	SampType: MS	TestCode: 8011_W	Units: µg/L	Prep Date: 11/22/2005	RunNo: 75306
Client ID:	Batch ID: 64686	TestNo: SW8011		Analysis Date: 11/25/2005	SeqNo: 1489278

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.04262	0.0194	0.09687	0	44	40.7	148	0	0		
Surr: 4-Bromofluorobenzene	2.968	0.0484	4.844	0	61.3	39.4	142	0	0		

Sample ID 0511B44-001BMS	SampType: MS	TestCode: 8011_W	Units: µg/L	Prep Date: 11/22/2005	RunNo: 75355
Client ID: MW-1	Batch ID: 64687	TestNo: SW8011		Analysis Date: 11/25/2005	SeqNo: 1490348

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	167.9	0.0203	0.1017	203.2	-34700	40.7	148	0	0		SE
Surr: 4-Bromofluorobenzene	BRL	0.0508	5.084	0	0	39.4	142	0	0		S

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0511B44
Project: George Southers Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_OXY_W

Sample ID **MB-64700** SampType: **MBLK** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/22/2005** RunNo: **75257**
Client ID: Batch ID: **64700** TestNo: **SW8260B** Analysis Date: **11/22/2005** SeqNo: **1488394**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	BRL	25									
Ethyl tert-butyl alcohol	BRL	5.0									
Ethyl tert-butyl ether	BRL	5.0									
Isopropyl ether	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
tert-Amyl alcohol	BRL	5.0									
tert-Amyl methyl ether	BRL	5.0									
tert-Butyl Alcohol	BRL	5.0									
tert-Butyl formate	BRL	5.0									

Sample ID **LCS-64700** SampType: **LCS** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/22/2005** RunNo: **75257**
Client ID: Batch ID: **64700** TestNo: **SW8260B** Analysis Date: **11/22/2005** SeqNo: **1488395**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	251.2	25	250	0	100	50	150	0	0		
Ethyl tert-butyl alcohol	235.6	5.0	250	0	94.2	50	150	0	0		
Ethyl tert-butyl ether	53.15	5.0	50	0	106	50	150	0	0		
Isopropyl ether	54.92	5.0	50	0	110	50	150	0	0		
Methyl tert-butyl ether	51.94	5.0	50	0	104	50	150	0	0		
tert-Amyl alcohol	246	5.0	250	0	98.4	50	150	0	0		
tert-Amyl methyl ether	51.11	5.0	50	0	102	50	150	0	0		
tert-Butyl Alcohol	232.5	5.0	250	0	93	50	150	0	0		
tert-Butyl formate	268.4	5.0	250	0	107	50	150	0	0		

Sample ID **0511B44-003AMS** SampType: **MS** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/22/2005** RunNo: **75257**
Client ID: **MW-4** Batch ID: **64700** TestNo: **SW8260B** Analysis Date: **11/22/2005** SeqNo: **1488400**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	224.6	25	250	0	89.8	50	150	0	0		
Ethyl tert-butyl alcohol	253.3	5.0	250	0	101	50	150	0	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0511B44
Project: George Southers Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_OXY_W

Sample ID **0511B44-003AMS** SampType: **MS** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/22/2005** RunNo: **75257**
Client ID: **MW-4** Batch ID: **64700** TestNo: **SW8260B** Analysis Date: **11/22/2005** SeqNo: **1488400**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethyl tert-butyl ether	54.23	5.0	50	0	108	50	150	0	0		
Isopropyl ether	62.09	5.0	50	3.86	116	50	150	0	0		
Methyl tert-butyl ether	54.97	5.0	50	3.84	102	50	150	0	0		
tert-Amyl alcohol	290.2	5.0	250	0	116	50	150	0	0		
tert-Amyl methyl ether	52.72	5.0	50	0	105	50	150	0	0		
tert-Butyl Alcohol	326.3	5.0	250	0	131	50	150	0	0		
tert-Butyl formate	41.79	5.0	250	0	16.7	50	150	0	0		S

Sample ID **0511B44-003AMSD** SampType: **MSD** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/22/2005** RunNo: **75257**
Client ID: **MW-4** Batch ID: **64700** TestNo: **SW8260B** Analysis Date: **11/22/2005** SeqNo: **1488401**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	306.3	25	250	0	123	50	150	224.6	30.8	40	
Ethyl tert-butyl alcohol	260.8	5.0	250	0	104	50	150	253.3	2.93	40	
Ethyl tert-butyl ether	54.81	5.0	50	0	110	50	150	54.23	1.06	40	
Isopropyl ether	62.27	5.0	50	3.86	117	50	150	62.09	0.289	40	
Methyl tert-butyl ether	54.67	5.0	50	3.84	102	50	150	54.97	0.547	40	
tert-Amyl alcohol	333.3	5.0	250	0	133	50	150	290.2	13.8	40	
tert-Amyl methyl ether	53.56	5.0	50	0	107	50	150	52.72	1.58	40	
tert-Butyl Alcohol	400.3	5.0	250	0	160	50	150	326.3	20.4	40	S
tert-Butyl formate	24.74	5.0	250	0	9.9	50	150	41.79	51.3	40	SR

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0511B44
Project: George Southers Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID **MB-64700** SampType: **MBLK** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/22/2005** RunNo: **75257**
Client ID: Batch ID: **64700** TestNo: **SW8260B** Analysis Date: **11/22/2005** SeqNo: **1488202**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	BRL	5.0									
Ethylbenzene	BRL	5.0									
m,p-Xylene	BRL	10									
Methyl tert-butyl ether	BRL	5.0									
Naphthalene	BRL	5.0									
o-Xylene	BRL	5.0									
Toluene	BRL	5.0									
Surr: 4-Bromofluorobenzene	43.93	5.0	50	0	87.9	63.7	115	0	0		
Surr: Dibromofluoromethane	43.62	5.0	50	0	87.2	70.4	123	0	0		
Surr: Toluene-d8	45.63	5.0	50	0	91.3	73.4	115	0	0		

Sample ID **LCS-64700** SampType: **LCS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/22/2005** RunNo: **75257**
Client ID: Batch ID: **64700** TestNo: **SW8260B** Analysis Date: **11/22/2005** SeqNo: **1488203**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	44.34	5.0	50	0	88.7	77.4	127	0	0		
Toluene	44.55	5.0	50	0	89.1	79.6	127	0	0		
Surr: 4-Bromofluorobenzene	42.62	5.0	50	0	85.2	63.7	115	0	0		
Surr: Dibromofluoromethane	41.86	5.0	50	0	83.7	70.4	123	0	0		
Surr: Toluene-d8	47.07	5.0	50	0	94.1	73.4	115	0	0		

Sample ID **0511B44-003AMS** SampType: **MS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/22/2005** RunNo: **75257**
Client ID: **MW-4** Batch ID: **64700** TestNo: **SW8260B** Analysis Date: **11/22/2005** SeqNo: **1488229**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	57.93	5.0	50	6.4	103	72.6	130	0	0		
Toluene	85.81	5.0	50	27.96	116	74.7	129	0	0		
Surr: 4-Bromofluorobenzene	45.7	5.0	50	0	91.4	63.7	115	0	0		
Surr: Dibromofluoromethane	42.02	5.0	50	0	84	70.4	123	0	0		
Surr: Toluene-d8	46.83	5.0	50	0	93.7	73.4	115	0	0		

Qualifiers:
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- BRL Below Reporting Limit
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0511B44
Project: George Southers Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID	0511B44-003AMSD	SampType:	MSD	TestCode:	8260B_W	Units:	µg/L	Prep Date:	11/22/2005	RunNo:	75257
Client ID:	MW-4	Batch ID:	64700	TestNo:	SW8260B			Analysis Date:	11/22/2005	SeqNo:	1488234

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	56.13	5.0	50	6.4	99.5	72.6	130	57.93	3.16	10	
Toluene	83.92	5.0	50	27.96	112	74.7	129	85.81	2.23	10	
Surr: 4-Bromofluorobenzene	45.98	5.0	50	0	92	63.7	115	45.7	0	0	
Surr: Dibromofluoromethane	40.98	5.0	50	0	82	70.4	123	42.02	0	0	
Surr: Toluene-d8	47.36	5.0	50	0	94.7	73.4	115	46.83	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

November 30, 2005

Jim Wilson
Consultech Environmental, Inc.
1800 MacLeod Rd Suite F
Suite F
Lawrenceville, GA 30043

TEL: (678) 377-0400
FAX (678) 377-0051

RE: Souther's Grocery

Order No.: 0511C76

Dear Jim Wilson:

Analytical Environmental Services, Inc. received 17 samples on 11/23/2005 11:30:00 AM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. Sample results are not dry weight corrected, unless if Pmoist analysis are requested on the chain of custody or other project specific arrangements have been made. AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 06/01/05-06/30/06.
-AIHA Certification number 505 for analysis of Industrial Hygiene samples (Organics, Inorganics), Paint Chips, Soil and Dust Wipes, effective until 02/01/07.

These results relate only to the items tested. This report may only be reproduced in full and contains 42 total pages (including cover letter).

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

Sincerely,

Mila Crain

Mila Crain
Customer Service Manager

35 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770) 457-8188

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 0571C67 76

Date: _____ Page _____ of _____

COMPANY: Consultech Env.

ADDRESS: 1800 Macleod Dr. Suite F

PHONE: 678 377 0400

FAX:

SAMPLED BY: Drew Miller

SIGNATURE: Drew Miller

ANALYSIS REQUESTED

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	BTEX NAPH (EPA 602/8260B)	EDB 504.1	Nitrate Sulfate	Total Lead	Dissolved Iron	Methane								REMARKS	No # of Containers
							PRESERVATION (See codes)														
							HCl	--	--	N	--	--									
1	MW 6R	11/22	1400			GW	2	2	1	1	1	2									9
2	MW 13R	11/22	1430																		
3	MW 18R	11/22	1500																		
4	MW 27		1530																		
5	MW 30		930																		
6	MW 31		900																		
7	MW 35		1200																		
8	MW 36		1000																		
9	MW 37		~~1030~~ 1130																		
10	MW 38		1030																		
11	MW 39		1100																		
12	MW 41		1230																		
13	MW 42		1300																		
14	MW 43		1330																		2

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: Drew Miller	11/22 24:15	1: [illegible]	11/23/05 11:30
2:		2:	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER_____

PROJECT INFORMATION
PROJECT NAME: Southwin Grocery
PROJECT #: C-05-02-015
SITE ADDRESS: Campobello S.C.
SEND REPORT TO: Jim Wilson
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers

Turnaround Time Request
- (X) Standard 5 Business Days
- ( ) 2 Business Day Rush
- ( ) Next Business Day Rush
- ( ) Same Day Rush (auth req.)
- ( ) Other _____

STATE PROGRAM (if any): _____
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 [illegible]ential Parkway, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 05 11 ~~C~~ 76

Date: _____ Page _____ of _____

COMPANY: Consultech Env.

ADDRESS: 1800 Macleod Dr. Suite F

PHONE: 678 377 0400

FAX:

SAMPLED BY: Drew Miller

SIGNATURE: Drew Miller

ANALYSIS REQUESTED

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	BTEX NAPH 1,2DCA MTBE & Oxygenates	EDB 504.1	NITRATE/Sulfate	Total Lead	Dissolved Iron	Methane	REMARKS	No # of Containers
	PRESERVATION (See codes)						H+I	I	I	N	I	I		
1	MW-28	11/22	1600	✓		GW	2	2	1	1	1	2		9
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: Drew Miller	11/22 4:15	1: [illegible]	11/23/05 11:30
2:		2:	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT (FedEx) UPS MAIL COURIER
GREYHOUND OTHER_____

PROJECT INFORMATION
PROJECT NAME: Southern Gregory
PROJECT #: C05-02-015
SITE ADDRESS: Campobello S.C.
SEND REPORT TO: Jim Wilson
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers

Turnaround Time Request
(X) Standard 5 Business Days
( ) 2 Business Day Rush
( ) Next Business Day Rush
( ) Same Day Rush (auth req.)
( ) Other _____

STATE PROGRAM (if any): _____
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid ~~S+I = Sulfuric acid + ice~~ ~~S/M+I = Sodium Bisulfate/Methanol + ice~~ ~~O = Other (specify)~~ NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc. **Date:** *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab Order: 0511C76

CASE NARRATIVE

Sample Receipt Non-Conformance:

Two sets of Trip Blanks were provided but are not listed on the COC. Trip blanks will be analyzed at no cost to the client.

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 4th Edition. All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives unless indicated in the case narrative.

Volatile Organic Compounds Analysis by Method 8260B:

Matrix spike and matrix spike duplicate recoveries for Ethanol and tert-Butyl Alcohol on sample 0511C76-009AMS/MSD were outside control limits biased high. LCS recovery was within control limits indicating possible matrix interference.

Matrix spike and matrix spike duplicate recoveries for tert-Butyl formate on sample 0511C76-009AMS/MSD were outside control limits biased low. LCS recovery was within control limits indicating possible matrix interference.

Due to sample matrix, samples 0511C76-001A, -008A, and -015A required dilution during preparation and/or analysis resulting in elevated reporting limits.

GC Analysis of Gaseous Samples by Method RSKSOP-175:

Matrix spike duplicate analysis was not performed with Batch 64840 per NELAC requirements due to insufficient sample volume.

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0511C76-001

Client Sample ID: MW-6R
Collection Date: 11/22/2005 2:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	0.057	0.020		µg/L	64784	1	11/29/2005 6:35 PM
Surr: 4-Bromofluorobenzene	86.8	39.4-142		%REC	64784	1	11/29/2005 6:35 PM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	BRL	4.0		µg/L	64840	1	11/29/2005 2:51 PM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	BRL	0.25		mg/L		1	11/23/2005 1:50 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	9.7	1.0		mg/L		1	11/23/2005 1:50 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	12.5	1.00		µg/L	64713	1	11/29/2005 1:42 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	182	100		µg/L	64712	1	11/30/2005 2:46 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	250	N	µg/L	64780	10	11/28/2005 2:10 PM
Ethyl tert-butyl alcohol	BRL	50	N	µg/L	64780	10	11/28/2005 2:10 PM
Ethyl tert-butyl ether	BRL	50	N	µg/L	64780	10	11/28/2005 2:10 PM
Isopropyl ether	BRL	50	N	µg/L	64780	10	11/28/2005 2:10 PM
tert-Amyl alcohol	BRL	50	N	µg/L	64780	10	11/28/2005 2:10 PM
tert-Amyl methyl ether	BRL	50	N	µg/L	64780	10	11/28/2005 2:10 PM
tert-Butyl Alcohol	BRL	50	N	µg/L	64780	10	11/28/2005 2:10 PM
tert-Butyl formate	BRL	50	N	µg/L	64780	10	11/28/2005 2:10 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	10		µg/L	64780	10	11/28/2005 2:10 PM
Benzene	15	10		µg/L	64780	10	11/28/2005 2:10 PM
1,2-Dichloroethane	BRL	50		µg/L	64780	10	11/28/2005 2:10 PM
Toluene	480	10		µg/L	64780	10	11/28/2005 2:10 PM
Ethylbenzene	140	10		µg/L	64780	10	11/28/2005 2:10 PM
m,p-Xylene	590	10		µg/L	64780	10	11/28/2005 2:10 PM
o-Xylene	200	10		µg/L	64780	10	11/28/2005 2:10 PM
Naphthalene	79	50		µg/L	64780	10	11/28/2005 2:10 PM
Surr: 4-Bromofluorobenzene	91.6	63.7-115		%REC	64780	10	11/28/2005 2:10 PM
Surr: Dibromofluoromethane	81.6	70.4-123		%REC	64780	10	11/28/2005 2:10 PM
Surr: Toluene-d8	95.4	73.4-115		%REC	64780	10	11/28/2005 2:10 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0511C76-002

Client Sample ID: MW-13R
Collection Date: 11/22/2005 2:30:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	0.041	0.020		µg/L	64784	1	11/29/2005 6:58 PM
Surr: 4-Bromofluorobenzene	85.5	39.4-142		%REC	64784	1	11/29/2005 6:58 PM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	BRL	4.0		µg/L	64840	1	11/29/2005 3:00 PM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	0.26	0.25		mg/L		1	11/23/2005 2:05 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	3.7	1.0		mg/L		1	11/23/2005 2:05 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	BRL	1.00		µg/L	64713	1	11/29/2005 1:48 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	605	100		µg/L	64712	1	11/30/2005 2:30 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64780	1	11/28/2005 6:20 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 6:20 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 6:20 PM
Isopropyl ether	6.9	5.0	N	µg/L	64780	1	11/28/2005 6:20 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 6:20 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 6:20 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 6:20 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64780	1	11/28/2005 6:20 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64780	1	11/28/2005 6:20 PM
Benzene	BRL	1.0		µg/L	64780	1	11/28/2005 6:20 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64780	1	11/28/2005 6:20 PM
Toluene	BRL	1.0		µg/L	64780	1	11/28/2005 6:20 PM
Ethylbenzene	BRL	1.0		µg/L	64780	1	11/28/2005 6:20 PM
m,p-Xylene	BRL	1.0		µg/L	64780	1	11/28/2005 6:20 PM
o-Xylene	BRL	1.0		µg/L	64780	1	11/28/2005 6:20 PM
Naphthalene	BRL	5.0		µg/L	64780	1	11/28/2005 6:20 PM
Surr: 4-Bromofluorobenzene	78.5	63.7-115		%REC	64780	1	11/28/2005 6:20 PM
Surr: Dibromofluoromethane	90.3	70.4-123		%REC	64780	1	11/28/2005 6:20 PM
Surr: Toluene-d8	91.9	73.4-115		%REC	64780	1	11/28/2005 6:20 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0511C76-003

Client Sample ID: MW-18R
Collection Date: 11/22/2005 3:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	64784	1	11/29/2005 7:21 PM
Surr: 4-Bromofluorobenzene	85.5	39.4-142		%REC	64784	1	11/29/2005 7:21 PM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	BRL	4.0		µg/L	64840	1	11/29/2005 3:08 PM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	0.81	0.25		mg/L		1	11/23/2005 2:19 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	BRL	1.0		mg/L		1	11/23/2005 2:19 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	11.4	1.00		µg/L	64713	1	11/29/2005 1:53 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	BRL	100		µg/L	64712	1	11/30/2005 2:51 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64825	1	11/29/2005 5:38 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64825	1	11/29/2005 5:38 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64825	1	11/29/2005 5:38 PM
Isopropyl ether	BRL	5.0	N	µg/L	64825	1	11/29/2005 5:38 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64825	1	11/29/2005 5:38 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64825	1	11/29/2005 5:38 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64825	1	11/29/2005 5:38 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64825	1	11/29/2005 5:38 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64825	1	11/29/2005 5:38 PM
Benzene	BRL	1.0		µg/L	64825	1	11/29/2005 5:38 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64825	1	11/29/2005 5:38 PM
Toluene	BRL	1.0		µg/L	64825	1	11/29/2005 5:38 PM
Ethylbenzene	BRL	1.0		µg/L	64825	1	11/29/2005 5:38 PM
m,p-Xylene	BRL	1.0		µg/L	64825	1	11/29/2005 5:38 PM
o-Xylene	BRL	1.0		µg/L	64825	1	11/29/2005 5:38 PM
Naphthalene	BRL	5.0		µg/L	64825	1	11/29/2005 5:38 PM
Surr: 4-Bromofluorobenzene	83.7	63.7-115		%REC	64825	1	11/29/2005 5:38 PM
Surr: Dibromofluoromethane	82.2	70.4-123		%REC	64825	1	11/29/2005 5:38 PM
Surr: Toluene-d8	86.7	73.4-115		%REC	64825	1	11/29/2005 5:38 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0511C76-004

Client Sample ID: MW-27
Collection Date: 11/22/2005 3:30:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	64784	1	11/29/2005 7:44 PM
Surr: 4-Bromofluorobenzene	92.4	39.4-142		%REC	64784	1	11/29/2005 7:44 PM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	BRL	4.0		µg/L	64840	1	11/29/2005 3:32 PM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	13	0.50		mg/L		2	11/23/2005 6:59 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	1.9	1.0		mg/L		1	11/23/2005 2:34 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	4.29	1.00		µg/L	64713	1	11/29/2005 1:58 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	BRL	100		µg/L	64712	1	11/30/2005 12:44 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64780	1	11/28/2005 6:45 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 6:45 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 6:45 PM
Isopropyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 6:45 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 6:45 PM
tert-Amyl methyl ether	7.4	5.0	N	µg/L	64780	1	11/28/2005 6:45 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 6:45 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64780	1	11/28/2005 6:45 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	20	1.0		µg/L	64780	1	11/28/2005 6:45 PM
Benzene	BRL	1.0		µg/L	64780	1	11/28/2005 6:45 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64780	1	11/28/2005 6:45 PM
Toluene	BRL	1.0		µg/L	64780	1	11/28/2005 6:45 PM
Ethylbenzene	BRL	1.0		µg/L	64780	1	11/28/2005 6:45 PM
m,p-Xylene	BRL	1.0		µg/L	64780	1	11/28/2005 6:45 PM
o-Xylene	2.7	1.0		µg/L	64780	1	11/28/2005 6:45 PM
Naphthalene	BRL	5.0		µg/L	64780	1	11/28/2005 6:45 PM
Surr: 4-Bromofluorobenzene	76.1	63.7-115		%REC	64780	1	11/28/2005 6:45 PM
Surr: Dibromofluoromethane	85.8	70.4-123		%REC	64780	1	11/28/2005 6:45 PM
Surr: Toluene-d8	90.2	73.4-115		%REC	64780	1	11/28/2005 6:45 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0511C76-005

Client Sample ID: MW-30
Collection Date: 11/22/2005 9:30:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	0.158	0.020		µg/L	64784	1	11/29/2005 8:07 PM
Surr: 4-Bromofluorobenzene	86.9	39.4-142		%REC	64784	1	11/29/2005 8:07 PM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	BRL	4.0		µg/L	64840	1	11/29/2005 3:41 PM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	BRL	0.25		mg/L		1	11/23/2005 2:49 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	BRL	1.0		mg/L		1	11/23/2005 2:49 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	61.2	1.00		µg/L	64713	1	11/29/2005 2:04 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	BRL	100		µg/L	64712	1	11/30/2005 12:50 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64780	1	11/28/2005 7:10 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 7:10 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 7:10 PM
Isopropyl ether	38	5.0	N	µg/L	64780	1	11/28/2005 7:10 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 7:10 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 7:10 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 7:10 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64780	1	11/28/2005 7:10 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64780	1	11/28/2005 7:10 PM
Benzene	5.4	1.0		µg/L	64780	1	11/28/2005 7:10 PM
1,2-Dichloroethane	5.2	5.0		µg/L	64780	1	11/28/2005 7:10 PM
Toluene	31	1.0		µg/L	64780	1	11/28/2005 7:10 PM
Ethylbenzene	5.0	1.0		µg/L	64780	1	11/28/2005 7:10 PM
m,p-Xylene	19	1.0		µg/L	64780	1	11/28/2005 7:10 PM
o-Xylene	8.8	1.0		µg/L	64780	1	11/28/2005 7:10 PM
Naphthalene	5.2	5.0		µg/L	64780	1	11/28/2005 7:10 PM
Surr: 4-Bromofluorobenzene	86.8	63.7-115		%REC	64780	1	11/28/2005 7:10 PM
Surr: Dibromofluoromethane	83.6	70.4-123		%REC	64780	1	11/28/2005 7:10 PM
Surr: Toluene-d8	91.0	73.4-115		%REC	64780	1	11/28/2005 7:10 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0511C76-006

Client Sample ID: MW-31
Collection Date: 11/22/2005 9:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	64784	1	11/29/2005 8:30 PM
Surr: 4-Bromofluorobenzene	97.0	39.4-142		%REC	64784	1	11/29/2005 8:30 PM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	BRL	4.0		µg/L	64840	1	11/29/2005 4:06 PM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	0.66	0.25		mg/L		1	11/23/2005 3:04 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	4.8	1.0		mg/L		1	11/23/2005 3:04 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	189	1.00		µg/L	64713	1	11/29/2005 2:20 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	199	100		µg/L	64712	1	11/30/2005 3:18 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64780	1	11/28/2005 7:35 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 7:35 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 7:35 PM
Isopropyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 7:35 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 7:35 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 7:35 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 7:35 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64780	1	11/28/2005 7:35 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64780	1	11/28/2005 7:35 PM
Benzene	BRL	1.0		µg/L	64780	1	11/28/2005 7:35 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64780	1	11/28/2005 7:35 PM
Toluene	BRL	1.0		µg/L	64780	1	11/28/2005 7:35 PM
Ethylbenzene	BRL	1.0		µg/L	64780	1	11/28/2005 7:35 PM
m,p-Xylene	BRL	1.0		µg/L	64780	1	11/28/2005 7:35 PM
o-Xylene	BRL	1.0		µg/L	64780	1	11/28/2005 7:35 PM
Naphthalene	BRL	5.0		µg/L	64780	1	11/28/2005 7:35 PM
Surr: 4-Bromofluorobenzene	78.5	63.7-115		%REC	64780	1	11/28/2005 7:35 PM
Surr: Dibromofluoromethane	90.4	70.4-123		%REC	64780	1	11/28/2005 7:35 PM
Surr: Toluene-d8	91.8	73.4-115		%REC	64780	1	11/28/2005 7:35 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0511C76-007

Client Sample ID: MW-35
Collection Date: 11/22/2005 12:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	64784	1	11/29/2005 8:53 PM
Surr: 4-Bromofluorobenzene	91.6	39.4-142		%REC	64784	1	11/29/2005 8:53 PM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	11	4.0		µg/L	64840	1	11/29/2005 4:28 PM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	BRL	0.25		mg/L		1	11/23/2005 3:48 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	3.8	1.0		mg/L		1	11/23/2005 3:48 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	2.20	1.00		µg/L	64713	1	11/29/2005 2:25 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	BRL	100		µg/L	64712	1	11/30/2005 1:11 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64780	1	11/28/2005 8:01 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:01 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:01 PM
Isopropyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:01 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:01 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:01 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:01 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:01 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64780	1	11/28/2005 8:01 PM
Benzene	BRL	1.0		µg/L	64780	1	11/28/2005 8:01 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64780	1	11/28/2005 8:01 PM
Toluene	BRL	1.0		µg/L	64780	1	11/28/2005 8:01 PM
Ethylbenzene	BRL	1.0		µg/L	64780	1	11/28/2005 8:01 PM
m,p-Xylene	2.1	1.0		µg/L	64780	1	11/28/2005 8:01 PM
o-Xylene	3.1	1.0		µg/L	64780	1	11/28/2005 8:01 PM
Naphthalene	BRL	5.0		µg/L	64780	1	11/28/2005 8:01 PM
Surr: 4-Bromofluorobenzene	83.7	63.7-115		%REC	64780	1	11/28/2005 8:01 PM
Surr: Dibromofluoromethane	89.2	70.4-123		%REC	64780	1	11/28/2005 8:01 PM
Surr: Toluene-d8	94.7	73.4-115		%REC	64780	1	11/28/2005 8:01 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0511C76-008

Client Sample ID: MW-36
Collection Date: 11/22/2005 10:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	64784	1	11/29/2005 9:16 PM
Surr: 4-Bromofluorobenzene	103	39.4-142		%REC	64784	1	11/29/2005 9:16 PM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	15	4.0		µg/L	64840	1	11/29/2005 4:50 PM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	BRL	0.25		mg/L		1	11/23/2005 4:02 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	4.9	1.0		mg/L		1	11/23/2005 4:02 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	661	1.00		µg/L	64713	1	11/29/2005 2:30 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	BRL	100		µg/L	64712	1	11/30/2005 1:16 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	12000	N	µg/L	64780	500	11/28/2005 1:45 PM
Ethyl tert-butyl alcohol	BRL	2500	N	µg/L	64780	500	11/28/2005 1:45 PM
Ethyl tert-butyl ether	BRL	2500	N	µg/L	64780	500	11/28/2005 1:45 PM
Isopropyl ether	BRL	2500	N	µg/L	64780	500	11/28/2005 1:45 PM
tert-Amyl alcohol	BRL	2500	N	µg/L	64780	500	11/28/2005 1:45 PM
tert-Amyl methyl ether	BRL	2500	N	µg/L	64780	500	11/28/2005 1:45 PM
tert-Butyl Alcohol	BRL	2500	N	µg/L	64780	500	11/28/2005 1:45 PM
tert-Butyl formate	BRL	2500	N	µg/L	64780	500	11/28/2005 1:45 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	500		µg/L	64780	500	11/28/2005 1:45 PM
Benzene	BRL	500		µg/L	64780	500	11/28/2005 1:45 PM
1,2-Dichloroethane	BRL	2500		µg/L	64780	500	11/28/2005 1:45 PM
Toluene	5800	500		µg/L	64780	500	11/28/2005 1:45 PM
Ethylbenzene	1300	500		µg/L	64780	500	11/28/2005 1:45 PM
m,p-Xylene	5600	500		µg/L	64780	500	11/28/2005 1:45 PM
o-Xylene	2900	500		µg/L	64780	500	11/28/2005 1:45 PM
Naphthalene	2500	2500		µg/L	64780	500	11/28/2005 1:45 PM
Surr: 4-Bromofluorobenzene	83.9	63.7-115		%REC	64780	500	11/28/2005 1:45 PM
Surr: Dibromofluoromethane	86.1	70.4-123		%REC	64780	500	11/28/2005 1:45 PM
Surr: Toluene-d8	95.0	73.4-115		%REC	64780	500	11/28/2005 1:45 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0511C76-009

Client Sample ID: MW-37
Collection Date: 11/22/2005 11:30:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	64784	1	11/29/2005 9:39 PM
Surr: 4-Bromofluorobenzene	90.4	39.4-142		%REC	64784	1	11/29/2005 9:39 PM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	BRL	4.0		µg/L	64840	1	11/29/2005 5:03 PM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	0.33	0.25		mg/L		1	11/23/2005 4:47 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	1.9	1.0		mg/L		1	11/23/2005 4:47 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	14.9	1.00		µg/L	64713	1	11/29/2005 2:35 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	BRL	100		µg/L	64712	1	11/30/2005 1:21 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64780	1	11/28/2005 5:05 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 5:05 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 5:05 PM
Isopropyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 5:05 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 5:05 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 5:05 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 5:05 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64780	1	11/28/2005 5:05 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64780	1	11/28/2005 5:05 PM
Benzene	BRL	1.0		µg/L	64780	1	11/28/2005 5:05 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64780	1	11/28/2005 5:05 PM
Toluene	4.8	1.0		µg/L	64780	1	11/28/2005 5:05 PM
Ethylbenzene	BRL	1.0		µg/L	64780	1	11/28/2005 5:05 PM
m,p-Xylene	2.4	1.0		µg/L	64780	1	11/28/2005 5:05 PM
o-Xylene	3.4	1.0		µg/L	64780	1	11/28/2005 5:05 PM
Naphthalene	BRL	5.0		µg/L	64780	1	11/28/2005 5:05 PM
Surr: 4-Bromofluorobenzene	80.0	63.7-115		%REC	64780	1	11/28/2005 5:05 PM
Surr: Dibromofluoromethane	85.3	70.4-123		%REC	64780	1	11/28/2005 5:05 PM
Surr: Toluene-d8	93.3	73.4-115		%REC	64780	1	11/28/2005 5:05 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0511C76-010

Client Sample ID: MW-38
Collection Date: 11/22/2005 10:30:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	64784	1	11/29/2005 10:03 PM
Surr: 4-Bromofluorobenzene	94.4	39.4-142		%REC	64784	1	11/29/2005 10:03 PM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	BRL	4.0		µg/L	64840	1	11/30/2005 9:10 AM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	0.33	0.25		mg/L		1	11/23/2005 5:01 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	3.9	1.0		mg/L		1	11/23/2005 5:01 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	614	1.00		µg/L	64713	1	11/29/2005 2:41 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	109	100		µg/L	64712	1	11/30/2005 3:23 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64780	1	11/28/2005 8:26 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:26 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:26 PM
Isopropyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:26 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:26 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:26 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:26 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:26 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64780	1	11/28/2005 8:26 PM
Benzene	BRL	1.0		µg/L	64780	1	11/28/2005 8:26 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64780	1	11/28/2005 8:26 PM
Toluene	1.9	1.0		µg/L	64780	1	11/28/2005 8:26 PM
Ethylbenzene	1.1	1.0		µg/L	64780	1	11/28/2005 8:26 PM
m,p-Xylene	4.0	1.0		µg/L	64780	1	11/28/2005 8:26 PM
o-Xylene	3.6	1.0		µg/L	64780	1	11/28/2005 8:26 PM
Naphthalene	5.0	5.0		µg/L	64780	1	11/28/2005 8:26 PM
Surr: 4-Bromofluorobenzene	83.0	63.7-115		%REC	64780	1	11/28/2005 8:26 PM
Surr: Dibromofluoromethane	86.1	70.4-123		%REC	64780	1	11/28/2005 8:26 PM
Surr: Toluene-d8	93.1	73.4-115		%REC	64780	1	11/28/2005 8:26 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0511C76-011

Client Sample ID: MW-39
Collection Date: 11/22/2005 11:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	64784	1	11/29/2005 10:49 PM
Surr: 4-Bromofluorobenzene	88.8	39.4-142		%REC	64784	1	11/29/2005 10:49 PM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	BRL	4.0		µg/L	64840	1	11/30/2005 9:24 AM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	BRL	0.25		mg/L		1	11/23/2005 5:16 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	1.6	1.0		mg/L		1	11/23/2005 5:16 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	1.28	1.00		µg/L	64713	1	11/29/2005 2:46 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	BRL	100		µg/L	64712	1	11/30/2005 1:32 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64780	1	11/28/2005 8:51 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:51 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:51 PM
Isopropyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:51 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:51 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:51 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:51 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:51 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64780	1	11/28/2005 8:51 PM
Benzene	1.1	1.0		µg/L	64780	1	11/28/2005 8:51 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64780	1	11/28/2005 8:51 PM
Toluene	33	1.0		µg/L	64780	1	11/28/2005 8:51 PM
Ethylbenzene	3.9	1.0		µg/L	64780	1	11/28/2005 8:51 PM
m,p-Xylene	12	1.0		µg/L	64780	1	11/28/2005 8:51 PM
o-Xylene	5.6	1.0		µg/L	64780	1	11/28/2005 8:51 PM
Naphthalene	BRL	5.0		µg/L	64780	1	11/28/2005 8:51 PM
Surr: 4-Bromofluorobenzene	84.8	63.7-115		%REC	64780	1	11/28/2005 8:51 PM
Surr: Dibromofluoromethane	86.7	70.4-123		%REC	64780	1	11/28/2005 8:51 PM
Surr: Toluene-d8	92.2	73.4-115		%REC	64780	1	11/28/2005 8:51 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0511C76-012

Client Sample ID: MW-41
Collection Date: 11/22/2005 12:30:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	64784	1	11/29/2005 11:12 PM
Surr: 4-Bromofluorobenzene	99.7	39.4-142		%REC	64784	1	11/29/2005 11:12 PM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	BRL	4.0		µg/L	64840	1	11/30/2005 9:37 AM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	0.28	0.25		mg/L		1	11/23/2005 5:31 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	BRL	1.0		mg/L		1	11/23/2005 5:31 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	BRL	1.00		µg/L	64713	1	11/29/2005 2:51 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	BRL	100		µg/L	64712	1	11/30/2005 1:37 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64780	1	11/28/2005 9:16 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 9:16 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 9:16 PM
Isopropyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 9:16 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 9:16 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 9:16 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 9:16 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64780	1	11/28/2005 9:16 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64780	1	11/28/2005 9:16 PM
Benzene	BRL	1.0		µg/L	64780	1	11/28/2005 9:16 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64780	1	11/28/2005 9:16 PM
Toluene	BRL	1.0		µg/L	64780	1	11/28/2005 9:16 PM
Ethylbenzene	BRL	1.0		µg/L	64780	1	11/28/2005 9:16 PM
m,p-Xylene	BRL	1.0		µg/L	64780	1	11/28/2005 9:16 PM
o-Xylene	BRL	1.0		µg/L	64780	1	11/28/2005 9:16 PM
Naphthalene	BRL	5.0		µg/L	64780	1	11/28/2005 9:16 PM
Surr: 4-Bromofluorobenzene	78.1	63.7-115		%REC	64780	1	11/28/2005 9:16 PM
Surr: Dibromofluoromethane	86.7	70.4-123		%REC	64780	1	11/28/2005 9:16 PM
Surr: Toluene-d8	91.4	73.4-115		%REC	64780	1	11/28/2005 9:16 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0511C76-013

Client Sample ID: MW-42
Collection Date: 11/22/2005 1:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS			**SW8011**				Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	64784	1	11/29/2005 11:35 PM
Surr: 4-Bromofluorobenzene	90.8	39.4-142		%REC	64784	1	11/29/2005 11:35 PM
GC ANALYSIS OF GASEOUS SAMPLES			**SOP-RSK 175**				Analyst: **JMZ**
Methane	BRL	4.0		µg/L	64840	1	11/30/2005 9:47 AM
ION SCAN			**SW9056**				Analyst: **CT**
Nitrate	0.41	0.25		mg/L		1	11/23/2005 5:46 PM
ION SCAN			**SW9056**				Analyst: **CT**
Sulfate	BRL	1.0		mg/L		1	11/23/2005 5:46 PM
TOTAL METALS BY ICP/MS			**SW6020**		**(SW3005A)**		Analyst: **SSS**
Lead	2.87	1.00		µg/L	64713	1	11/29/2005 2:56 PM
DISSOLVED METALS BY ICP/MS			**SW6020**				Analyst: **SSS**
Iron	BRL	100		µg/L	64712	1	11/30/2005 1:42 PM
OXYGENATES BY GC/MS			**SW8260B**		**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64825	1	11/29/2005 6:02 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64825	1	11/29/2005 6:02 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64825	1	11/29/2005 6:02 PM
Isopropyl ether	BRL	5.0	N	µg/L	64825	1	11/29/2005 6:02 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64825	1	11/29/2005 6:02 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64825	1	11/29/2005 6:02 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64825	1	11/29/2005 6:02 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64825	1	11/29/2005 6:02 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**SW8260B**		**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64825	1	11/29/2005 6:02 PM
Benzene	BRL	1.0		µg/L	64825	1	11/29/2005 6:02 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64825	1	11/29/2005 6:02 PM
Toluene	BRL	1.0		µg/L	64825	1	11/29/2005 6:02 PM
Ethylbenzene	BRL	1.0		µg/L	64825	1	11/29/2005 6:02 PM
m,p-Xylene	BRL	1.0		µg/L	64825	1	11/29/2005 6:02 PM
o-Xylene	BRL	1.0		µg/L	64825	1	11/29/2005 6:02 PM
Naphthalene	BRL	5.0		µg/L	64825	1	11/29/2005 6:02 PM
Surr: 4-Bromofluorobenzene	79.7	63.7-115		%REC	64825	1	11/29/2005 6:02 PM
Surr: Dibromofluoromethane	84.1	70.4-123		%REC	64825	1	11/29/2005 6:02 PM
Surr: Toluene-d8	86.9	73.4-115		%REC	64825	1	11/29/2005 6:02 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0511C76-014

Client Sample ID: MW-43
Collection Date: 11/22/2005 1:30:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS			**SW8011**				Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	64784	1	11/29/2005 11:58 PM
Surr: 4-Bromofluorobenzene	84.0	39.4-142		%REC	64784	1	11/29/2005 11:58 PM
GC ANALYSIS OF GASEOUS SAMPLES			**SOP-RSK 175**				Analyst: **JMZ**
Methane	BRL	4.0		µg/L	64840	1	11/30/2005 9:57 AM
ION SCAN			**SW9056**				Analyst: **CT**
Nitrate	0.71	0.25		mg/L		1	11/23/2005 4:17 PM
ION SCAN			**SW9056**				Analyst: **CT**
Sulfate	BRL	1.0		mg/L		1	11/23/2005 4:17 PM
TOTAL METALS BY ICP/MS			**SW6020**		**(SW3005A)**		Analyst: **SSS**
Lead	1.25	1.00		µg/L	64713	1	11/29/2005 3:02 PM
DISSOLVED METALS BY ICP/MS			**SW6020**				Analyst: **SSS**
Iron	BRL	100		µg/L	64712	1	11/30/2005 1:48 PM
OXYGENATES BY GC/MS			**SW8260B**		**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64825	1	11/30/2005 2:58 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64825	1	11/30/2005 2:58 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64825	1	11/30/2005 2:58 PM
Isopropyl ether	BRL	5.0	N	µg/L	64825	1	11/30/2005 2:58 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64825	1	11/30/2005 2:58 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64825	1	11/30/2005 2:58 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64825	1	11/30/2005 2:58 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64825	1	11/30/2005 2:58 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**SW8260B**		**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64825	1	11/30/2005 2:58 PM
Benzene	BRL	1.0		µg/L	64825	1	11/30/2005 2:58 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64825	1	11/30/2005 2:58 PM
Toluene	BRL	1.0		µg/L	64825	1	11/30/2005 2:58 PM
Ethylbenzene	BRL	1.0		µg/L	64825	1	11/30/2005 2:58 PM
m,p-Xylene	BRL	1.0		µg/L	64825	1	11/30/2005 2:58 PM
o-Xylene	BRL	1.0		µg/L	64825	1	11/30/2005 2:58 PM
Naphthalene	BRL	5.0		µg/L	64825	1	11/30/2005 2:58 PM
Surr: 4-Bromofluorobenzene	81.6	63.7-115		%REC	64825	1	11/30/2005 2:58 PM
Surr: Dibromofluoromethane	86.1	70.4-123		%REC	64825	1	11/30/2005 2:58 PM
Surr: Toluene-d8	92.2	73.4-115		%REC	64825	1	11/30/2005 2:58 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0511C76-015

Client Sample ID: MW-28
Collection Date: 11/22/2005 4:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	64785	1	11/30/2005 3:02 AM
Surr: 4-Bromofluorobenzene	119	39.4-142		%REC	64785	1	11/30/2005 3:02 AM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	500	20		µg/L	64840	5	11/30/2005 10:38 AM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	4.1	0.25		mg/L		1	11/23/2005 6:00 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	39	1.0		mg/L		1	11/23/2005 6:00 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	5.96	1.00		µg/L	64713	1	11/29/2005 1:27 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	BRL	100		µg/L	64712	1	11/30/2005 1:53 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	1200	N	µg/L	64825	50	11/29/2005 5:13 PM
Ethyl tert-butyl alcohol	BRL	250	N	µg/L	64825	50	11/29/2005 5:13 PM
Ethyl tert-butyl ether	BRL	250	N	µg/L	64825	50	11/29/2005 5:13 PM
Isopropyl ether	BRL	250	N	µg/L	64825	50	11/29/2005 5:13 PM
tert-Amyl alcohol	BRL	250	N	µg/L	64825	50	11/29/2005 5:13 PM
tert-Amyl methyl ether	BRL	250	N	µg/L	64825	50	11/29/2005 5:13 PM
tert-Butyl Alcohol	BRL	250	N	µg/L	64825	50	11/29/2005 5:13 PM
tert-Butyl formate	BRL	250	N	µg/L	64825	50	11/29/2005 5:13 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	50		µg/L	64825	50	11/29/2005 5:13 PM
Benzene	94	50		µg/L	64825	50	11/29/2005 5:13 PM
1,2-Dichloroethane	BRL	250		µg/L	64825	50	11/29/2005 5:13 PM
Toluene	9900	50		µg/L	64825	50	11/29/2005 5:13 PM
Ethylbenzene	2600	50		µg/L	64825	50	11/29/2005 5:13 PM
m,p-Xylene	10000	50		µg/L	64825	50	11/29/2005 5:13 PM
o-Xylene	3800	50		µg/L	64825	50	11/29/2005 5:13 PM
Naphthalene	1100	250		µg/L	64825	50	11/29/2005 5:13 PM
Surr: 4-Bromofluorobenzene	89.7	63.7-115		%REC	64825	50	11/29/2005 5:13 PM
Surr: Dibromofluoromethane	82.8	70.4-123		%REC	64825	50	11/29/2005 5:13 PM
Surr: Toluene-d8	90.4	73.4-115		%REC	64825	50	11/29/2005 5:13 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0511C76-016

Client Sample ID: TRIP BLANK 1
Collection Date: 11/22/2005
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64825	1	11/29/2005 3:32 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64825	1	11/29/2005 3:32 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64825	1	11/29/2005 3:32 PM
Isopropyl ether	BRL	5.0	N	µg/L	64825	1	11/29/2005 3:32 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64825	1	11/29/2005 3:32 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64825	1	11/29/2005 3:32 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64825	1	11/29/2005 3:32 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64825	1	11/29/2005 3:32 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64825	1	11/29/2005 3:32 PM
Benzene	BRL	1.0		µg/L	64825	1	11/29/2005 3:32 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64825	1	11/29/2005 3:32 PM
Toluene	BRL	1.0		µg/L	64825	1	11/29/2005 3:32 PM
Ethylbenzene	BRL	1.0		µg/L	64825	1	11/29/2005 3:32 PM
m,p-Xylene	BRL	1.0		µg/L	64825	1	11/29/2005 3:32 PM
o-Xylene	BRL	1.0		µg/L	64825	1	11/29/2005 3:32 PM
Naphthalene	BRL	5.0		µg/L	64825	1	11/29/2005 3:32 PM
Surr: 4-Bromofluorobenzene	83.1	63.7-115		%REC	64825	1	11/29/2005 3:32 PM
Surr: Dibromofluoromethane	83.5	70.4-123		%REC	64825	1	11/29/2005 3:32 PM
Surr: Toluene-d8	88.8	73.4-115		%REC	64825	1	11/29/2005 3:32 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0511C76-017

Client Sample ID: TRIP BLANK 2
Collection Date: 11/22/2005
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64825	1	11/29/2005 3:58 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64825	1	11/29/2005 3:58 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64825	1	11/29/2005 3:58 PM
Isopropyl ether	BRL	5.0	N	µg/L	64825	1	11/29/2005 3:58 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64825	1	11/29/2005 3:58 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64825	1	11/29/2005 3:58 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64825	1	11/29/2005 3:58 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64825	1	11/29/2005 3:58 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64825	1	11/29/2005 3:58 PM
Benzene	BRL	1.0		µg/L	64825	1	11/29/2005 3:58 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64825	1	11/29/2005 3:58 PM
Toluene	BRL	1.0		µg/L	64825	1	11/29/2005 3:58 PM
Ethylbenzene	BRL	1.0		µg/L	64825	1	11/29/2005 3:58 PM
m,p-Xylene	BRL	1.0		µg/L	64825	1	11/29/2005 3:58 PM
o-Xylene	BRL	1.0		µg/L	64825	1	11/29/2005 3:58 PM
Naphthalene	BRL	5.0		µg/L	64825	1	11/29/2005 3:58 PM
Surr: 4-Bromofluorobenzene	83.6	63.7-115		%REC	64825	1	11/29/2005 3:58 PM
Surr: Dibromofluoromethane	82.4	70.4-123		%REC	64825	1	11/29/2005 3:58 PM
Surr: Toluene-d8	89.9	73.4-115		%REC	64825	1	11/29/2005 3:58 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

30-Nov-05

Lab Order: 0511C76
Client: Consultech Environmental, Inc.
Project: Souther's Grocery

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0511C76-001A	MW-6R	11/22/2005 2:00:00 PM	Groundwater	Oxygenates by GC/MS		11/28/2005	11/28/2005
				Volatile Organic Compounds by GC/MS		11/28/2005	11/28/2005
0511C76-001B				GC Analysis of Gaseous Samples		11/29/2005	11/29/2005
0511C76-001C				MICRO-EXTRACTABLE VOCs		11/29/2005	11/29/2005
0511C76-001D				ION SCAN			11/23/2005
				ION SCAN			11/23/2005
0511C76-001E				Total Metals by ICP/MS		11/23/2005	11/29/2005
0511C76-001F				Dissolved Metals by ICP/MS		11/23/2005	11/30/2005
0511C76-002A	MW-13R	11/22/2005 2:30:00 PM		Oxygenates by GC/MS		11/28/2005	11/28/2005
				Volatile Organic Compounds by GC/MS		11/28/2005	11/28/2005
0511C76-002B				GC Analysis of Gaseous Samples		11/29/2005	11/29/2005
0511C76-002C				MICRO-EXTRACTABLE VOCs		11/29/2005	11/29/2005
0511C76-002D				ION SCAN			11/23/2005
				ION SCAN			11/23/2005
0511C76-002E				Total Metals by ICP/MS		11/23/2005	11/29/2005
0511C76-002F				Dissolved Metals by ICP/MS		11/23/2005	11/30/2005
0511C76-003A	MW-18R	11/22/2005 3:00:00 PM		Oxygenates by GC/MS		11/29/2005	11/29/2005
				Volatile Organic Compounds by GC/MS		11/29/2005	11/29/2005
0511C76-003B				GC Analysis of Gaseous Samples		11/29/2005	11/29/2005
0511C76-003C				MICRO-EXTRACTABLE VOCs		11/29/2005	11/29/2005
0511C76-003D				ION SCAN			11/23/2005
				ION SCAN			11/23/2005
0511C76-003E				Total Metals by ICP/MS		11/23/2005	11/29/2005
0511C76-003F				Dissolved Metals by ICP/MS		11/23/2005	11/30/2005
0511C76-004A	MW-27	11/22/2005 3:30:00 PM		Oxygenates by GC/MS		11/28/2005	11/28/2005
				Volatile Organic Compounds by GC/MS		11/28/2005	11/28/2005
0511C76-004B				GC Analysis of Gaseous Samples		11/29/2005	11/29/2005
0511C76-004C				MICRO-EXTRACTABLE VOCs		11/29/2005	11/29/2005

Lab Order: 0511C76
Client: Consultech Environmental, Inc.
Project: Souther's Grocery

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0511C76-004D	MW-27	11/22/2005 3:30:00 PM	Groundwater	ION SCAN			11/23/2005
				ION SCAN			11/23/2005
				ION SCAN			11/23/2005
0511C76-004E				Total Metals by ICP/MS		11/23/2005	11/29/2005
0511C76-004F				Dissolved Metals by ICP/MS		11/23/2005	11/30/2005
0511C76-005A	MW-30	11/22/2005 9:30:00 AM		Oxygenates by GC/MS		11/28/2005	11/28/2005
				Volatile Organic Compounds by GC/MS		11/28/2005	11/28/2005
0511C76-005B				GC Analysis of Gaseous Samples		11/29/2005	11/29/2005
0511C76-005C				MICRO-EXTRACTABLE VOCs		11/29/2005	11/29/2005
0511C76-005D				ION SCAN			11/23/2005
				ION SCAN			11/23/2005
0511C76-005E				Total Metals by ICP/MS		11/23/2005	11/29/2005
0511C76-005F				Dissolved Metals by ICP/MS		11/23/2005	11/30/2005
0511C76-006A	MW-31	11/22/2005 9:00:00 AM		Oxygenates by GC/MS		11/28/2005	11/28/2005
				Volatile Organic Compounds by GC/MS		11/28/2005	11/28/2005
0511C76-006B				GC Analysis of Gaseous Samples		11/29/2005	11/29/2005
0511C76-006C				MICRO-EXTRACTABLE VOCs		11/29/2005	11/29/2005
0511C76-006D				ION SCAN			11/23/2005
				ION SCAN			11/23/2005
0511C76-006E				Total Metals by ICP/MS		11/23/2005	11/29/2005
0511C76-006F				Dissolved Metals by ICP/MS		11/23/2005	11/30/2005
				Dissolved Metals by ICP/MS		11/23/2005	11/30/2005
0511C76-007A	MW-35	11/22/2005 12:00:00 PM		Oxygenates by GC/MS		11/28/2005	11/28/2005
				Volatile Organic Compounds by GC/MS		11/28/2005	11/28/2005
0511C76-007B				GC Analysis of Gaseous Samples		11/29/2005	11/29/2005
0511C76-007C				MICRO-EXTRACTABLE VOCs		11/29/2005	11/29/2005
0511C76-007D				ION SCAN			11/23/2005
				ION SCAN			11/23/2005

Analytical Environmental Services, Inc.

Lab Order: 0511C76
Client: Consultech Environmental, Inc.
Project: Souther's Grocery

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0511C76-007E	MW-35	11/22/2005 12:00:00 PM	Groundwater	Total Metals by ICP/MS		11/23/2005	11/29/2005
0511C76-007F				Dissolved Metals by ICP/MS		11/23/2005	11/30/2005
0511C76-008A	MW-36	11/22/2005 10:00:00 AM		Oxygenates by GC/MS		11/28/2005	11/28/2005
				Volatile Organic Compounds by GC/MS		11/28/2005	11/28/2005
0511C76-008B				GC Analysis of Gaseous Samples		11/29/2005	11/29/2005
0511C76-008C				MICRO-EXTRACTABLE VOCs		11/29/2005	11/29/2005
0511C76-008D				ION SCAN			11/23/2005
				ION SCAN			11/23/2005
0511C76-008E				Total Metals by ICP/MS		11/23/2005	11/29/2005
0511C76-008F				Dissolved Metals by ICP/MS		11/23/2005	11/30/2005
0511C76-009A	MW-37	11/22/2005 11:30:00 AM		Oxygenates by GC/MS		11/28/2005	11/28/2005
				Volatile Organic Compounds by GC/MS		11/28/2005	11/28/2005
0511C76-009B				GC Analysis of Gaseous Samples		11/29/2005	11/29/2005
0511C76-009C				MICRO-EXTRACTABLE VOCs		11/29/2005	11/29/2005
0511C76-009D				ION SCAN			11/23/2005
				ION SCAN			11/23/2005
0511C76-009E				Total Metals by ICP/MS		11/23/2005	11/29/2005
0511C76-009F				Dissolved Metals by ICP/MS		11/23/2005	11/30/2005
0511C76-010A	MW-38	11/22/2005 10:30:00 AM		Oxygenates by GC/MS		11/28/2005	11/28/2005
				Volatile Organic Compounds by GC/MS		11/28/2005	11/28/2005
0511C76-010B				GC Analysis of Gaseous Samples		11/29/2005	11/30/2005
0511C76-010C				MICRO-EXTRACTABLE VOCs		11/29/2005	11/29/2005
0511C76-010D				ION SCAN			11/23/2005
				ION SCAN			11/23/2005
0511C76-010E				Total Metals by ICP/MS		11/23/2005	11/29/2005
0511C76-010F				Dissolved Metals by ICP/MS		11/23/2005	11/30/2005
				Dissolved Metals by ICP/MS		11/23/2005	11/30/2005
0511C76-011A	MW-39	11/22/2005 11:00:00 AM		Oxygenates by GC/MS		11/28/2005	11/28/2005

Lab Order: 0511C76
Client: Consultech Environmental, Inc.
Project: Souther's Grocery

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0511C76-011A	MW-39	11/22/2005 11:00:00 AM	Groundwater	Volatile Organic Compounds by GC/MS		11/28/2005	11/28/2005
0511C76-011B				GC Analysis of Gaseous Samples		11/29/2005	11/30/2005
				GC Analysis of Gaseous Samples		11/29/2005	11/30/2005
0511C76-011C				MICRO-EXTRACTABLE VOCs		11/29/2005	11/29/2005
0511C76-011D				ION SCAN			11/23/2005
				ION SCAN			11/23/2005
0511C76-011E				Total Metals by ICP/MS		11/23/2005	11/29/2005
0511C76-011F				Dissolved Metals by ICP/MS		11/23/2005	11/30/2005
0511C76-012A	MW-41	11/22/2005 12:30:00 PM		Oxygenates by GC/MS		11/28/2005	11/28/2005
				Volatile Organic Compounds by GC/MS		11/28/2005	11/28/2005
0511C76-012B				GC Analysis of Gaseous Samples		11/29/2005	11/30/2005
0511C76-012C				MICRO-EXTRACTABLE VOCs		11/29/2005	11/29/2005
0511C76-012D				ION SCAN			11/23/2005
				ION SCAN			11/23/2005
0511C76-012E				Total Metals by ICP/MS		11/23/2005	11/29/2005
0511C76-012F				Dissolved Metals by ICP/MS		11/23/2005	11/30/2005
0511C76-013A	MW-42	11/22/2005 1:00:00 PM		Oxygenates by GC/MS		11/29/2005	11/29/2005
				Volatile Organic Compounds by GC/MS		11/29/2005	11/29/2005
0511C76-013B				GC Analysis of Gaseous Samples		11/29/2005	11/30/2005
0511C76-013C				MICRO-EXTRACTABLE VOCs		11/29/2005	11/29/2005
0511C76-013D				ION SCAN			11/23/2005
				ION SCAN			11/23/2005
0511C76-013E				Total Metals by ICP/MS		11/23/2005	11/29/2005
0511C76-013F				Dissolved Metals by ICP/MS		11/23/2005	11/30/2005
0511C76-014A	MW-43	11/22/2005 1:30:00 PM		Oxygenates by GC/MS		11/29/2005	11/30/2005
				Volatile Organic Compounds by GC/MS		11/29/2005	11/30/2005
0511C76-014B				GC Analysis of Gaseous Samples		11/29/2005	11/30/2005
0511C76-014C				MICRO-EXTRACTABLE VOCs		11/29/2005	11/29/2005

Lab Order: 0511C76
Client: Consultech Environmental, Inc.
Project: Souther's Grocery

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0511C76-014D	MW-43	11/22/2005 1:30:00 PM	Groundwater	ION SCAN			11/23/2005
				ION SCAN			11/23/2005
0511C76-014E				Total Metals by ICP/MS		11/23/2005	11/29/2005
0511C76-014F				Dissolved Metals by ICP/MS		11/23/2005	11/30/2005
0511C76-015A	MW-28	11/22/2005 4:00:00 PM		Oxygenates by GC/MS		11/29/2005	11/29/2005
				Volatile Organic Compounds by GC/MS		11/29/2005	11/29/2005
0511C76-015B				GC Analysis of Gaseous Samples		11/29/2005	11/30/2005
				GC Analysis of Gaseous Samples		11/29/2005	11/30/2005
0511C76-015C				MICRO-EXTRACTABLE VOCs		11/29/2005	11/30/2005
0511C76-015D				ION SCAN			11/23/2005
				ION SCAN			11/23/2005
0511C76-015E				Total Metals by ICP/MS		11/23/2005	11/29/2005
0511C76-015F				Dissolved Metals by ICP/MS		11/23/2005	11/30/2005
0511C76-016A	TRIP BLANK 1	11/22/2005	Aqueous	Oxygenates by GC/MS		11/29/2005	11/29/2005
				Volatile Organic Compounds by GC/MS		11/29/2005	11/29/2005
0511C76-017A	TRIP BLANK 2			Oxygenates by GC/MS		11/29/2005	11/29/2005
				Volatile Organic Compounds by GC/MS		11/29/2005	11/29/2005

Analytical Environmental Services, Inc.

Date: *30-Nov-05*

CLIENT: Consultech Environmental, Inc.
Work Order: 0511C76
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W

Sample ID **MB-64713** SampType: **MBLK** TestCode: **6020_W** Units: **µg/L** Prep Date: **11/23/2005** RunNo: **75450**
Client ID: Batch ID: **64713** TestNo: **SW6020** Analysis Date: **11/29/2005** SeqNo: **1491756**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	BRL	1.00									

Sample ID **LCS-64713** SampType: **LCS** TestCode: **6020_W** Units: **µg/L** Prep Date: **11/23/2005** RunNo: **75450**
Client ID: Batch ID: **64713** TestNo: **SW6020** Analysis Date: **11/29/2005** SeqNo: **1491755**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	98.47	1.00	100	0	98.5	85	115	0	0		

Sample ID **0511C76-015EMS** SampType: **MS** TestCode: **6020_W** Units: **µg/L** Prep Date: **11/23/2005** RunNo: **75450**
Client ID: **MW-28** Batch ID: **64713** TestNo: **SW6020** Analysis Date: **11/29/2005** SeqNo: **1491758**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	104.2	1.00	100	5.958	98.2	70	130	0	0		

Sample ID **0511C76-015EMSD** SampType: **MSD** TestCode: **6020_W** Units: **µg/L** Prep Date: **11/23/2005** RunNo: **75450**
Client ID: **MW-28** Batch ID: **64713** TestNo: **SW6020** Analysis Date: **11/29/2005** SeqNo: **1491759**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	106.2	1.00	100	5.958	100	70	130	104.2	1.90	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0511C76
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W_D

Sample ID **MB-64712** SampType: **MBLK** TestCode: **6020_W_D** Units: **µg/L** Prep Date: **11/23/2005** RunNo: **75492**
Client ID: Batch ID: **64712** TestNo: **SW6020** Analysis Date: **11/30/2005** SeqNo: **1492818**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	BRL	100									

Sample ID **LCS-64712** SampType: **LCS** TestCode: **6020_W_D** Units: **µg/L** Prep Date: **11/23/2005** RunNo: **75492**
Client ID: Batch ID: **64712** TestNo: **SW6020** Analysis Date: **11/30/2005** SeqNo: **1492817**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	1119	100	1000	18.98	110	85	115	0	0		

Sample ID **0511C76-002FMS** SampType: **MS** TestCode: **6020_W_D** Units: **µg/L** Prep Date: **11/23/2005** RunNo: **75492**
Client ID: **MW-13R** Batch ID: **64712** TestNo: **SW6020** Analysis Date: **11/30/2005** SeqNo: **1492811**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	1617	100	1000	605.3	101	70	130	0	0		

Sample ID **0511C76-002FMSD** SampType: **MSD** TestCode: **6020_W_D** Units: **µg/L** Prep Date: **11/23/2005** RunNo: **75492**
Client ID: **MW-13R** Batch ID: **64712** TestNo: **SW6020** Analysis Date: **11/30/2005** SeqNo: **1492812**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	1632	100	1000	605.3	103	70	130	1617	0.923	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0511C76
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8011_W

Sample ID **MB-64784** SampType: **MBLK** TestCode: **8011_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75452**
Client ID: Batch ID: **64784** TestNo: **SW8011** Analysis Date: **11/29/2005** SeqNo: **1491821**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	BRL	0.0200									
Surr: 4-Bromofluorobenzene	4.636	0.0500	5	0	92.7	39.4	142	0	0		

Sample ID **MB-64785** SampType: **MBLK** TestCode: **8011_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75465**
Client ID: Batch ID: **64785** TestNo: **SW8011** Analysis Date: **11/30/2005** SeqNo: **1492340**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	BRL	0.0200									
Surr: 4-Bromofluorobenzene	4.501	0.0500	5	0	90	39.4	142	0	0		

Sample ID **LCS-64784** SampType: **LCS** TestCode: **8011_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75452**
Client ID: Batch ID: **64784** TestNo: **SW8011** Analysis Date: **11/29/2005** SeqNo: **1491822**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.091	0.0200	0.1	0	91	55.1	139	0	0		
Surr: 4-Bromofluorobenzene	4.203	0.0500	5	0	84.1	39.4	142	0	0		

Sample ID **LCS-64785** SampType: **LCS** TestCode: **8011_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75465**
Client ID: Batch ID: **64785** TestNo: **SW8011** Analysis Date: **11/30/2005** SeqNo: **1492499**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.132	0.0200	0.1	0	132	55.1	139	0	0		
Surr: 4-Bromofluorobenzene	3.742	0.0500	5	0	74.8	39.4	142	0	0		

Sample ID **LCSD-64784** SampType: **LCSD** TestCode: **8011_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75452**
Client ID: Batch ID: **64784** TestNo: **SW8011** Analysis Date: **11/29/2005** SeqNo: **1491823**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.091	0.0200	0.1	0	91	55.1	139	0.091	0	18.5	
Surr: 4-Bromofluorobenzene	3.58	0.0500	5	0	71.6	39.4	142	4.203	0	0	

Qualifiers:
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- BRL Below Reporting Limit
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0511C76
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8011_W

Sample ID **LCSD-64785** SampType: **LCSD** TestCode: **8011_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75465**
Client ID: Batch ID: **64785** TestNo: **SW8011** Analysis Date: **11/30/2005** SeqNo: **1492342**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.137	0.0200	0.1	0	137	55.1	139	0.15	0	18.5	
Surr: 4-Bromofluorobenzene	4.156	0.0500	5	0	83.1	39.4	142	4.59	0	0	

Sample ID **0511C52-001BMS** SampType: **MS** TestCode: **8011_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75452**
Client ID: Batch ID: **64784** TestNo: **SW8011** Analysis Date: **11/29/2005** SeqNo: **1491825**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.08087	0.0195	0.09744	0	83	40.7	148	0	0		
Surr: 4-Bromofluorobenzene	5.205	0.0487	4.872	0	107	39.4	142	0	0		

Sample ID **0511D90-001BMS** SampType: **MS** TestCode: **8011_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75465**
Client ID: Batch ID: **64785** TestNo: **SW8011** Analysis Date: **11/30/2005** SeqNo: **1492344**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.07105	0.0197	0.09867	0	72	40.7	148	0	0		
Surr: 4-Bromofluorobenzene	3.905	0.0493	4.934	0	79.1	39.4	142	0	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0511C76
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_OXY_W

Sample ID **MB-64780** SampType: **MBLK** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/28/2005** RunNo: **75384**
Client ID: Batch ID: **64780** TestNo: **SW8260B** Analysis Date: **11/28/2005** SeqNo: **1490825**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	BRL	25									
Ethyl tert-butyl alcohol	BRL	5.0									
Ethyl tert-butyl ether	BRL	5.0									
Isopropyl ether	BRL	5.0									
tert-Amyl alcohol	BRL	5.0									
tert-Amyl methyl ether	BRL	5.0									
tert-Butyl Alcohol	BRL	5.0									
tert-Butyl formate	BRL	5.0									

Sample ID **MB-64825** SampType: **MBLK** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75432**
Client ID: Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/29/2005** SeqNo: **1492594**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	BRL	25									
Ethyl tert-butyl alcohol	BRL	5.0									
Ethyl tert-butyl ether	BRL	5.0									
Isopropyl ether	BRL	5.0									
tert-Amyl alcohol	BRL	5.0									
tert-Amyl methyl ether	BRL	5.0									
tert-Butyl Alcohol	BRL	5.0									
tert-Butyl formate	BRL	5.0									

Sample ID **MB-64825** SampType: **MBLK** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75499**
Client ID: Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/30/2005** SeqNo: **1492807**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	BRL	25									
Ethyl tert-butyl alcohol	BRL	5.0									
Ethyl tert-butyl ether	BRL	5.0									
Isopropyl ether	BRL	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0511C76
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_OXY_W

Sample ID **MB-64825** SampType: **MBLK** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75499**
Client ID: Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/30/2005** SeqNo: **1492807**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
tert-Amyl alcohol	BRL	5.0									
tert-Amyl methyl ether	BRL	5.0									
tert-Butyl Alcohol	BRL	5.0									
tert-Butyl formate	BRL	5.0									

Sample ID **LCS-64780** SampType: **LCS** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/28/2005** RunNo: **75384**
Client ID: Batch ID: **64780** TestNo: **SW8260B** Analysis Date: **11/28/2005** SeqNo: **1490826**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	192	25	250	0	76.8	50	150	0	0		
Ethyl tert-butyl alcohol	170.2	5.0	250	0	68.1	50	150	0	0		
Ethyl tert-butyl ether	48.24	5.0	50	0	96.5	50	150	0	0		
Isopropyl ether	46.79	5.0	50	0	93.6	50	150	0	0		
tert-Amyl alcohol	216.7	5.0	250	0	86.7	50	150	0	0		
tert-Amyl methyl ether	46.92	5.0	50	0	93.8	50	150	0	0		
tert-Butyl Alcohol	181.7	5.0	250	0	72.7	50	150	0	0		
tert-Butyl formate	250.4	5.0	250	0	100	50	150	0	0		

Sample ID **LCS-64825** SampType: **LCS** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75432**
Client ID: Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/29/2005** SeqNo: **1492510**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	180.2	25	250	0	72.1	50	150	0	0		
Ethyl tert-butyl alcohol	223.7	5.0	250	0	89.5	50	150	0	0		
Ethyl tert-butyl ether	44.78	5.0	50	0	89.6	50	150	0	0		
Isopropyl ether	41.31	5.0	50	0	82.6	50	150	0	0		
tert-Amyl alcohol	280	5.0	250	0	112	50	150	0	0		
tert-Amyl methyl ether	44.11	5.0	50	0	88.2	50	150	0	0		
tert-Butyl Alcohol	183.8	5.0	250	0	73.5	50	150	0	0		
tert-Butyl formate	191.8	5.0	250	0	76.7	50	150	0	0		

Qualifiers:
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- BRL Below Reporting Limit
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0511C76
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_OXY_W

Sample ID **0511C76-009AMS** SampType: **MS** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/28/2005** RunNo: **75384**
Client ID: **MW-37** Batch ID: **64780** TestNo: **SW8260B** Analysis Date: **11/28/2005** SeqNo: **1491440**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	443.3	25	250	0	177	50	150	0	0		S
Ethyl tert-butyl alcohol	223.9	5.0	250	0	89.6	50	150	0	0		
Ethyl tert-butyl ether	54.97	5.0	50	0	110	50	150	0	0		
Isopropyl ether	54.3	5.0	50	0	109	50	150	0	0		
tert-Amyl alcohol	295.2	5.0	250	0	118	50	150	0	0		
tert-Amyl methyl ether	52.7	5.0	50	0	105	50	150	0	0		
tert-Butyl Alcohol	465.4	5.0	250	0	186	50	150	0	0		S
tert-Butyl formate	6.21	5.0	250	0	2.48	50	150	0	0		S

Sample ID **0511C76-013AMS** SampType: **MS** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75499**
Client ID: **MW-42** Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/30/2005** SeqNo: **1492838**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	341.7	25	250	0	137	50	150	0	0		
Ethyl tert-butyl alcohol	222.7	5.0	250	0	89.1	50	150	0	0		
Ethyl tert-butyl ether	49.15	5.0	50	0	98.3	50	150	0	0		
Isopropyl ether	48.35	5.0	50	0	96.7	50	150	0	0		
tert-Amyl alcohol	298.7	5.0	250	0	119	50	150	0	0		
tert-Amyl methyl ether	46.7	5.0	50	0	93.4	50	150	0	0		
tert-Butyl Alcohol	288.4	5.0	250	0	115	50	150	0	0		
tert-Butyl formate	244.1	5.0	250	0	97.6	50	150	0	0		

Sample ID **0511C76-009AMSD** SampType: **MSD** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/28/2005** RunNo: **75384**
Client ID: **MW-37** Batch ID: **64780** TestNo: **SW8260B** Analysis Date: **11/28/2005** SeqNo: **1491441**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	480.7	25	250	0	192	50	150	443.3	8.10	40	S
Ethyl tert-butyl alcohol	221.8	5.0	250	0	88.7	50	150	223.9	0.951	40	
Ethyl tert-butyl ether	55.21	5.0	50	0	110	50	150	54.97	0.436	40	
Isopropyl ether	53.73	5.0	50	0	107	50	150	54.3	1.06	40	

Qualifiers:
- B Analyte detected in the associated Method Blank
- BRL Below Reporting Limit
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- N Analyte not NELAC certified
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

CLIENT: Consultech Environmental, Inc.
Work Order: 0511C76
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_OXY_W

Sample ID **0511C76-009AMSD** SampType: **MSD** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/28/2005** RunNo: **75384**
Client ID: **MW-37** Batch ID: **64780** TestNo: **SW8260B** Analysis Date: **11/28/2005** SeqNo: **1491441**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
tert-Amyl alcohol	279.5	5.0	250	0	112	50	150	295.2	5.45	40	
tert-Amyl methyl ether	49.28	5.0	50	0	98.6	50	150	52.7	6.71	40	
tert-Butyl Alcohol	464.1	5.0	250	0	186	50	150	465.4	0.273	40	S
tert-Butyl formate	5.24	5.0	250	0	2.1	50	150	6.21	16.9	40	S

Sample ID **0511C76-013AMSD** SampType: **MSD** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75499**
Client ID: **MW-42** Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/30/2005** SeqNo: **1492808**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	318.4	25	250	0	127	50	150	341.7	7.06	40	
Ethyl tert-butyl alcohol	229.1	5.0	250	0	91.7	50	150	222.7	2.83	40	
Ethyl tert-butyl ether	49.58	5.0	50	0	99.2	50	150	49.15	0.871	40	
Isopropyl ether	47.88	5.0	50	0	95.8	50	150	48.35	0.977	40	
tert-Amyl alcohol	288.5	5.0	250	0	115	50	150	298.7	3.48	40	
tert-Amyl methyl ether	45.87	5.0	50	0	91.7	50	150	46.7	1.79	40	
tert-Butyl Alcohol	275.9	5.0	250	0	110	50	150	288.4	4.43	40	
tert-Butyl formate	256.6	5.0	250	0	103	50	150	244.1	5.01	40	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0511C76
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID **MB-64780**	SampType: **MBLK**	TestCode: **8260B_W**	Units: **µg/L**	Prep Date: **11/28/2005**	RunNo: **75384**
Client ID:	Batch ID: **64780**	TestNo: **SW8260B**		Analysis Date: **11/28/2005**	SeqNo: **1490799**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	BRL	5.0									
Benzene	BRL	5.0									
Ethylbenzene	BRL	5.0									
m,p-Xylene	BRL	10									
Methyl tert-butyl ether	BRL	5.0									
Naphthalene	BRL	5.0									
o-Xylene	BRL	5.0									
Toluene	BRL	5.0									
Surr: 4-Bromofluorobenzene	38.86	5.0	50	0	77.7	63.7	115	0	0		
Surr: Dibromofluoromethane	44.01	5.0	50	0	88	70.4	123	0	0		
Surr: Toluene-d8	47.3	5.0	50	0	94.6	73.4	115	0	0		

Sample ID **MB-64825**	SampType: **MBLK**	TestCode: **8260B_W**	Units: **µg/L**	Prep Date: **11/29/2005**	RunNo: **75432**
Client ID:	Batch ID: **64825**	TestNo: **SW8260B**		Analysis Date: **11/29/2005**	SeqNo: **1491547**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	BRL	5.0									
Benzene	BRL	5.0									
Ethylbenzene	BRL	5.0									
m,p-Xylene	BRL	10									
Methyl tert-butyl ether	BRL	5.0									
Naphthalene	BRL	5.0									
o-Xylene	BRL	5.0									
Toluene	BRL	5.0									
Surr: 4-Bromofluorobenzene	39.59	5.0	50	0	79.2	63.7	115	0	0		
Surr: Dibromofluoromethane	42.77	5.0	50	0	85.5	70.4	123	0	0		
Surr: Toluene-d8	45.58	5.0	50	0	91.2	73.4	115	0	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0511C76
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID **MB-64825** SampType: **MBLK** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75499**
Client ID: Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/30/2005** SeqNo: **1492756**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	BRL	5.0									
Benzene	BRL	5.0									
Ethylbenzene	BRL	5.0									
m,p-Xylene	BRL	10									
Methyl tert-butyl ether	BRL	5.0									
Naphthalene	BRL	5.0									
o-Xylene	BRL	5.0									
Toluene	BRL	5.0									
Surr: 4-Bromofluorobenzene	40.75	5.0	50	0	81.5	63.7	115	0	0		
Surr: Dibromofluoromethane	43.04	5.0	50	0	86.1	70.4	123	0	0		
Surr: Toluene-d8	44.66	5.0	50	0	89.3	73.4	115	0	0		

Sample ID **LCS-64780** SampType: **LCS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/28/2005** RunNo: **75384**
Client ID: Batch ID: **64780** TestNo: **SW8260B** Analysis Date: **11/28/2005** SeqNo: **1490800**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	46.36	5.0	50	0	92.7	77.4	127	0	0		
Toluene	49.66	5.0	50	0	99.3	79.6	127	0	0		
Surr: 4-Bromofluorobenzene	38.78	5.0	50	0	77.6	63.7	115	0	0		
Surr: Dibromofluoromethane	42.45	5.0	50	0	84.9	70.4	123	0	0		
Surr: Toluene-d8	47.97	5.0	50	0	95.9	73.4	115	0	0		

Sample ID **LCS-64825** SampType: **LCS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75432**
Client ID: Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/29/2005** SeqNo: **1492357**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	48.26	5.0	50	0	96.5	77.4	127	0	0		
Toluene	49.14	5.0	50	0	98.3	79.6	127	0	0		
Surr: 4-Bromofluorobenzene	42.23	5.0	50	0	84.5	63.7	115	0	0		
Surr: Dibromofluoromethane	39.21	5.0	50	0	78.4	70.4	123	0	0		

Qualifiers:
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0511C76
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID	SampType	TestCode	Units	Prep Date	RunNo
LCS-64825	LCS	8260B_W	µg/L	11/29/2005	75432
Client ID:	Batch ID: 64825	TestNo: SW8260B		Analysis Date: 11/29/2005	SeqNo: 1492357

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	46.07	5.0	50	0	92.1	73.4	115	0	0		

Sample ID	SampType	TestCode	Units	Prep Date	RunNo
0511C76-009AMS	MS	8260B_W	µg/L	11/28/2005	75384
Client ID: MW-37	Batch ID: 64780	TestNo: SW8260B		Analysis Date: 11/28/2005	SeqNo: 1491321

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	46.33	5.0	50	0	92.7	72.6	130	0	0		
Toluene	55.07	5.0	50	4.81	101	74.7	129	0	0		
Surr: 4-Bromofluorobenzene	41.18	5.0	50	0	82.4	63.7	115	0	0		
Surr: Dibromofluoromethane	40.64	5.0	50	0	81.3	70.4	123	0	0		
Surr: Toluene-d8	48.2	5.0	50	0	96.4	73.4	115	0	0		

Sample ID	SampType	TestCode	Units	Prep Date	RunNo
0511C76-013AMS	MS	8260B_W	µg/L	11/29/2005	75499
Client ID: MW-42	Batch ID: 64825	TestNo: SW8260B		Analysis Date: 11/30/2005	SeqNo: 1492776

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	49.51	5.0	50	0	99	72.6	130	0	0		
Toluene	52.17	5.0	50	0	104	74.7	129	0	0		
Surr: 4-Bromofluorobenzene	39.87	5.0	50	0	79.7	63.7	115	0	0		
Surr: Dibromofluoromethane	40.86	5.0	50	0	81.7	70.4	123	0	0		
Surr: Toluene-d8	48.27	5.0	50	0	96.5	73.4	115	0	0		

Sample ID	SampType	TestCode	Units	Prep Date	RunNo
0511C76-009AMSD	MSD	8260B_W	µg/L	11/28/2005	75384
Client ID: MW-37	Batch ID: 64780	TestNo: SW8260B		Analysis Date: 11/28/2005	SeqNo: 1491323

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	45.06	5.0	50	0	90.1	72.6	130	0	0	10	
Toluene	52.9	5.0	50	4.81	96.2	74.7	129	0	0	10	
Surr: 4-Bromofluorobenzene	39.66	5.0	50	0	79.3	63.7	115	0	0	0	
Surr: Dibromofluoromethane	39.53	5.0	50	0	79.1	70.4	123	0	0	0	

Qualifiers:
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- BRL Below Reporting Limit
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0511C76
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID	0511C76-009AMSD	SampType:	MSD	TestCode:	8260B_W	Units:	µg/L	Prep Date:	11/28/2005	RunNo:	75384
Client ID:	MW-37	Batch ID:	64780	TestNo:	SW8260B			Analysis Date:	11/28/2005	SeqNo:	1491323

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	48.19	5.0	50	0	96.4	73.4	115	0	0	0	

Sample ID	0511C76-013AMSD	SampType:	MSD	TestCode:	8260B_W	Units:	µg/L	Prep Date:	11/29/2005	RunNo:	75499
Client ID:	MW-42	Batch ID:	64825	TestNo:	SW8260B			Analysis Date:	11/30/2005	SeqNo:	1492777

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	49.27	5.0	50	0	98.5	72.6	130	49.51	0.486	10	
Toluene	50.6	5.0	50	0	101	74.7	129	52.17	3.06	10	
Surr: 4-Bromofluorobenzene	39.57	5.0	50	0	79.1	63.7	115	39.87	0	0	
Surr: Dibromofluoromethane	41.43	5.0	50	0	82.9	70.4	123	40.86	0	0	
Surr: Toluene-d8	47.04	5.0	50	0	94.1	73.4	115	48.27	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0511C76
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 9056_NO2NO3_W

Sample ID	SampType	TestCode	Units	Prep Date	RunNo
MB-75313	MBLK	9056_NO2NO	mg/L		75313
Client ID:	Batch ID: R75313	TestNo: SW9056		Analysis Date: 11/23/2005	SeqNo: 1489458

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate	BRL	0.25									

Sample ID	SampType	TestCode	Units	Prep Date	RunNo
LCS-75313	LCS	9056_NO2NO	mg/L		75313
Client ID:	Batch ID: R75313	TestNo: SW9056		Analysis Date: 11/23/2005	SeqNo: 1489456

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate	4.94	0.25	5	0	98.8	90	110	0	0		

Sample ID	SampType	TestCode	Units	Prep Date	RunNo
0511A66-001EMS	MS	9056_NO2NO	mg/L		75313
Client ID:	Batch ID: R75313	TestNo: SW9056		Analysis Date: 11/23/2005	SeqNo: 1489462

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate	8.656	0.25	5	3.629	101	90	110	0	0		

Sample ID	SampType	TestCode	Units	Prep Date	RunNo
0511C76-014DMS	MS	9056_NO2NO	mg/L		75313
Client ID: MW-43	Batch ID: R75313	TestNo: SW9056		Analysis Date: 11/23/2005	SeqNo: 1489479

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate	5.85	0.25	5	0.7076	103	90	110	0	0		

Sample ID	SampType	TestCode	Units	Prep Date	RunNo
0511A66-001EMSD	MSD	9056_NO2NO	mg/L		75313
Client ID:	Batch ID: R75313	TestNo: SW9056		Analysis Date: 11/23/2005	SeqNo: 1489464

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate	8.678	0.25	5	3.629	101	90	110	8.656	0.259	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0511C76
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 9056_W

Sample ID	SampType	TestCode	Units	Prep Date	RunNo	Client ID	Batch ID	TestNo	Analysis Date	SeqNo
MB-75312	MBLK	9056_W	mg/L		75312		R75312	SW9056	11/23/2005	1489406

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	BRL	1.0									

Sample ID	SampType	TestCode	Units	Prep Date	RunNo	Client ID	Batch ID	TestNo	Analysis Date	SeqNo
LCS-75312	LCS	9056_W	mg/L		75312		R75312	SW9056	11/23/2005	1489404

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	23.98	1.0	25	0	95.9	90	110	0	0		

Sample ID	SampType	TestCode	Units	Prep Date	RunNo	Client ID	Batch ID	TestNo	Analysis Date	SeqNo
0511A66-001EMS	MS	9056_W	mg/L		75312		R75312	SW9056	11/23/2005	1489410

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	26.38	1.0	25	1.298	100	90	110	0	0		

Sample ID	SampType	TestCode	Units	Prep Date	RunNo	Client ID	Batch ID	TestNo	Analysis Date	SeqNo
0511C76-014DMS	MS	9056_W	mg/L		75312	MW-43	R75312	SW9056	11/23/2005	1489427

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	24.04	1.0	25	0.3338	94.8	90	110	0	0		

Sample ID	SampType	TestCode	Units	Prep Date	RunNo	Client ID	Batch ID	TestNo	Analysis Date	SeqNo
0511A66-001EMSD	MSD	9056_W	mg/L		75312		R75312	SW9056	11/23/2005	1489412

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	26.33	1.0	25	1.298	100	90	110	26.38	0.182	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0511C76
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: RSKSOP-175

Sample ID	SampType	TestCode	Units	Prep Date	RunNo
MB-64840	MBLK	RSKSOP-175	µg/L	11/29/2005	75444
Client ID:	Batch ID: 64840	TestNo: SOP-RSK 17		Analysis Date: 11/29/2005	SeqNo: 1491697

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	BRL	4.0									

Sample ID	SampType	TestCode	Units	Prep Date	RunNo
LCS-64840	LCS	RSKSOP-175	µg/L	11/29/2005	75444
Client ID:	Batch ID: 64840	TestNo: SOP-RSK 17		Analysis Date: 11/29/2005	SeqNo: 1491698

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	141.7	4.0	200	0	70.9	43.7	115	0	0		

Sample ID	SampType	TestCode	Units	Prep Date	RunNo
LCSD-64840	LCSD	RSKSOP-175	µg/L	11/29/2005	75444
Client ID:	Batch ID: 64840	TestNo: SOP-RSK 17		Analysis Date: 11/29/2005	SeqNo: 1491699

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	146	4.0	200	0	73	43.7	115	141.7	2.97	19.5	

Sample ID	SampType	TestCode	Units	Prep Date	RunNo
0511C76-014BMS	MS	RSKSOP-175	µg/L	11/29/2005	75484
Client ID: MW-43	Batch ID: 64840	TestNo: SOP-RSK 17		Analysis Date: 11/30/2005	SeqNo: 1492553

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	155.6	4.0	200	0	77.8	26.7	123	0	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

December 01, 2005

Jim Wilson
Consultech Environmental, Inc.
1800 MacLeod Rd Suite F
Suite F
Lawrenceville, GA 30043

TEL: (678) 377-0400
FAX (678) 377-0051

RE: Southers Grocery

Order No.: 0511D90

Dear Jim Wilson:

Analytical Environmental Services, Inc. received 7 samples on 11/28/2005 10:40:00 AM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. Sample results are not dry weight corrected, unless if Pmoist analysis are requested on the chain of custody or other project specific arrangements have been made.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 06/01/05-06/30/06.
-AIHA Certification number 505 for analysis of Industrial Hygiene samples (Organics, Inorganics), Paint Chips, Soil and Dust Wipes, effective until 02/01/07.

These results relate only to the items tested. This report may only be reproduced in full and contains 21 total pages (including cover letter).

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

Sincerely,

Mila Crain

Mila Crain
Customer Service Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770) 457-8188

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 0511D90

Date: _____ Page _____ of _____

COMPANY: Consultech Environmental

ADDRESS: 1800 Macleod Dr. Suite F.

PHONE: 678-317-0400

FAX: 678-317-0511

SAMPLED BY: Drew Miller

SIGNATURE: Drew Miller

ANALYSIS REQUESTED: EDB 8011; Total Lead

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes) #1	--	N	REMARKS	No # of Containers
1	MW-21	11/23	830	✓		GW	2	2	1		5
2	MW-22	11/23	900	↓		↓	↓	↓	↓		5
3	MW-20	11/23	1030	↓		↓	↓	↓	↓		5
4	MW-19	11/23	1100	↓		↓	↓	↓	↓		5
5	MW-11	11/23	1000	↓		↓	↓	↓	↓		5
6	MW-8	11/23	930	↓		↓	↓	↓	↓		5
7											
8											
9											
10											
11											
12											
13											
14											

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: Drew Miller	11/28 10:40	1: [illegible]	11/28/05 10:40
2:		2:	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER_____

PROJECT INFORMATION
PROJECT NAME: Southern Grocery
PROJECT #: 05-02-015
SITE ADDRESS: Campbella S.C.
SEND REPORT TO: Jim Wilson
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #:_____ PO#:_____

RECEIPT
Total # of Containers

Turnaround Time Request
⊗ Standard 5 Business Days
○ 2 Business Day Rush
○ Next Business Day Rush
○ Same Day Rush (auth req.)
○ Other _____

STATE PROGRAM (if any): _____
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A[illegible] GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
PRESERVATIVE CO[illegible] H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I [illegible]m Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow C[illegible] Client

Analytical Environmental Services, Inc. **Date:** *09-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Southers Grocery
Lab Order: 0511D90

CASE NARRATIVE

Sample Receipt Non-Conformance:

A Trip Blank was provided but is not listed on the COC. Trip Blank will be analyzed at no cost to the client.

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 4th Edition. All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives unless indicated in the case narrative.

EDB Analysis by Method 8011:

Percent recovery for the surrogate spiking compound on sample 0511D90-006B was outside control limits biased low due to obvious matrix interference.

Volatile Organic Compounds Analysis by Method 8260B:

Due to sample matrix, samples 0511D90-005A and -006A required dilution during preparation and/or analysis resulting in elevated reporting limits.

Matrix spike and matrix spike duplicate recoveries for Ethanol and tert-Butyl Alcohol on sample 0511C76-009AMS/MSD were outside control limits biased high. LCS recovery was within control limits indicating possible matrix interference.

Matrix spike and matrix spike duplicate recoveries for tert-Butyl formate on sample 0511C76-009AMS/MSD were outside control limits biased low. LCS recovery was within control limits indicating possible matrix interference.

Analytical Environmental Services, Inc.

Date: *09-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Southers Grocery
Lab ID: 0511D90-001

Client Sample ID: MW-21
Collection Date: 11/23/2005 8:30:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	64785	1	11/30/2005 1:53 AM
Surr: 4-Bromofluorobenzene	80.6	39.4-142		%REC	64785	1	11/30/2005 1:53 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	BRL	1.00		µg/L	64794	1	11/30/2005 6:54 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64825	1	11/30/2005 4:40 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64825	1	11/30/2005 4:40 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64825	1	11/30/2005 4:40 PM
Isopropyl ether	BRL	5.0	N	µg/L	64825	1	11/30/2005 4:40 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64825	1	11/30/2005 4:40 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64825	1	11/30/2005 4:40 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64825	1	11/30/2005 4:40 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64825	1	11/30/2005 4:40 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64825	1	11/30/2005 4:40 PM
Benzene	BRL	1.0		µg/L	64825	1	11/30/2005 4:40 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64825	1	11/30/2005 4:40 PM
Toluene	BRL	1.0		µg/L	64825	1	11/30/2005 4:40 PM
Ethylbenzene	BRL	1.0		µg/L	64825	1	11/30/2005 4:40 PM
m,p-Xylene	BRL	1.0		µg/L	64825	1	11/30/2005 4:40 PM
o-Xylene	BRL	1.0		µg/L	64825	1	11/30/2005 4:40 PM
Naphthalene	BRL	5.0		µg/L	64825	1	11/30/2005 4:40 PM
Surr: 4-Bromofluorobenzene	79.3	63.7-115		%REC	64825	1	11/30/2005 4:40 PM
Surr: Dibromofluoromethane	90.4	70.4-123		%REC	64825	1	11/30/2005 4:40 PM
Surr: Toluene-d8	91.3	73.4-115		%REC	64825	1	11/30/2005 4:40 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *09-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Southers Grocery
Lab ID: 0511D90-002

Client Sample ID: MW-22
Collection Date: 11/23/2005 9:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	64785	1	11/30/2005 3:25 AM
Surr: 4-Bromofluorobenzene	93.0	39.4-142		%REC	64785	1	11/30/2005 3:25 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	BRL	1.00		µg/L	64794	1	11/30/2005 7:09 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64825	1	11/30/2005 5:05 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64825	1	11/30/2005 5:05 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64825	1	11/30/2005 5:05 PM
Isopropyl ether	BRL	5.0	N	µg/L	64825	1	11/30/2005 5:05 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64825	1	11/30/2005 5:05 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64825	1	11/30/2005 5:05 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64825	1	11/30/2005 5:05 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64825	1	11/30/2005 5:05 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64825	1	11/30/2005 5:05 PM
Benzene	BRL	1.0		µg/L	64825	1	11/30/2005 5:05 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64825	1	11/30/2005 5:05 PM
Toluene	BRL	1.0		µg/L	64825	1	11/30/2005 5:05 PM
Ethylbenzene	BRL	1.0		µg/L	64825	1	11/30/2005 5:05 PM
m,p-Xylene	BRL	1.0		µg/L	64825	1	11/30/2005 5:05 PM
o-Xylene	BRL	1.0		µg/L	64825	1	11/30/2005 5:05 PM
Naphthalene	BRL	5.0		µg/L	64825	1	11/30/2005 5:05 PM
Surr: 4-Bromofluorobenzene	78.1	63.7-115		%REC	64825	1	11/30/2005 5:05 PM
Surr: Dibromofluoromethane	88.2	70.4-123		%REC	64825	1	11/30/2005 5:05 PM
Surr: Toluene-d8	95.3	73.4-115		%REC	64825	1	11/30/2005 5:05 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *09-Dec-05*

CLIENT: Consultech Environmental, Inc. **Client Sample ID:** MW-20
Project: Southers Grocery **Collection Date:** 11/23/2005 10:30:00 AM
Lab ID: 0511D90-003 **Matrix:** GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	64785	1	11/30/2005 3:48 AM
Surr: 4-Bromofluorobenzene	91.2	39.4-142		%REC	64785	1	11/30/2005 3:48 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	BRL	1.00		µg/L	64794	1	11/30/2005 7:25 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64825	1	11/30/2005 5:30 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64825	1	11/30/2005 5:30 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64825	1	11/30/2005 5:30 PM
Isopropyl ether	BRL	5.0	N	µg/L	64825	1	11/30/2005 5:30 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64825	1	11/30/2005 5:30 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64825	1	11/30/2005 5:30 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64825	1	11/30/2005 5:30 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64825	1	11/30/2005 5:30 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64825	1	11/30/2005 5:30 PM
Benzene	BRL	1.0		µg/L	64825	1	11/30/2005 5:30 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64825	1	11/30/2005 5:30 PM
Toluene	BRL	1.0		µg/L	64825	1	11/30/2005 5:30 PM
Ethylbenzene	BRL	1.0		µg/L	64825	1	11/30/2005 5:30 PM
m,p-Xylene	BRL	1.0		µg/L	64825	1	11/30/2005 5:30 PM
o-Xylene	BRL	1.0		µg/L	64825	1	11/30/2005 5:30 PM
Naphthalene	BRL	5.0		µg/L	64825	1	11/30/2005 5:30 PM
Surr: 4-Bromofluorobenzene	82.1	63.7-115		%REC	64825	1	11/30/2005 5:30 PM
Surr: Dibromofluoromethane	90.3	70.4-123		%REC	64825	1	11/30/2005 5:30 PM
Surr: Toluene-d8	95.4	73.4-115		%REC	64825	1	11/30/2005 5:30 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *09-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Southers Grocery
Lab ID: 0511D90-004

Client Sample ID: MW-19
Collection Date: 11/23/2005 11:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	64785	1	11/30/2005 4:11 AM
Surr: 4-Bromofluorobenzene	116	39.4-142		%REC	64785	1	11/30/2005 4:11 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	3.14	1.00		µg/L	64794	1	11/30/2005 7:30 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64780	1	11/30/2005 5:55 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64780	1	11/30/2005 5:55 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64780	1	11/30/2005 5:55 PM
Isopropyl ether	BRL	5.0	N	µg/L	64780	1	11/30/2005 5:55 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64780	1	11/30/2005 5:55 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64780	1	11/30/2005 5:55 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64780	1	11/30/2005 5:55 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64780	1	11/30/2005 5:55 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64780	1	11/30/2005 5:55 PM
Benzene	6.8	1.0		µg/L	64780	1	11/30/2005 5:55 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64780	1	11/30/2005 5:55 PM
Toluene	3.2	1.0		µg/L	64780	1	11/30/2005 5:55 PM
Ethylbenzene	BRL	1.0		µg/L	64780	1	11/30/2005 5:55 PM
m,p-Xylene	22	1.0		µg/L	64780	1	11/30/2005 5:55 PM
o-Xylene	6.1	1.0		µg/L	64780	1	11/30/2005 5:55 PM
Naphthalene	BRL	5.0		µg/L	64780	1	11/30/2005 5:55 PM
Surr: 4-Bromofluorobenzene	86.7	63.7-115		%REC	64780	1	11/30/2005 5:55 PM
Surr: Dibromofluoromethane	83.2	70.4-123		%REC	64780	1	11/30/2005 5:55 PM
Surr: Toluene-d8	98.6	73.4-115		%REC	64780	1	11/30/2005 5:55 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *09-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Southers Grocery
Lab ID: 0511D90-005

Client Sample ID: MW-11
Collection Date: 11/23/2005 10:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	64785	1	11/30/2005 4:34 AM
Surr: 4-Bromofluorobenzene	130	39.4-142		%REC	64785	1	11/30/2005 4:34 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	77.3	1.00		µg/L	64794	1	11/30/2005 7:36 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	1200	N	µg/L	64780	50	11/29/2005 4:48 PM
Ethyl tert-butyl alcohol	BRL	250	N	µg/L	64780	50	11/29/2005 4:48 PM
Ethyl tert-butyl ether	BRL	250	N	µg/L	64780	50	11/29/2005 4:48 PM
Isopropyl ether	BRL	250	N	µg/L	64780	50	11/29/2005 4:48 PM
tert-Amyl alcohol	BRL	250	N	µg/L	64780	50	11/29/2005 4:48 PM
tert-Amyl methyl ether	BRL	250	N	µg/L	64780	50	11/29/2005 4:48 PM
tert-Butyl Alcohol	BRL	250	N	µg/L	64780	50	11/29/2005 4:48 PM
tert-Butyl formate	BRL	250	N	µg/L	64780	50	11/29/2005 4:48 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	50		µg/L	64780	50	11/29/2005 4:48 PM
Benzene	BRL	50		µg/L	64780	50	11/29/2005 4:48 PM
1,2-Dichloroethane	BRL	250		µg/L	64780	50	11/29/2005 4:48 PM
Toluene	120	50		µg/L	64780	50	11/29/2005 4:48 PM
Ethylbenzene	1300	50		µg/L	64780	50	11/29/2005 4:48 PM
m,p-Xylene	7500	50		µg/L	64780	50	11/29/2005 4:48 PM
o-Xylene	1900	50		µg/L	64780	50	11/29/2005 4:48 PM
Naphthalene	1100	250		µg/L	64780	50	11/29/2005 4:48 PM
Surr: 4-Bromofluorobenzene	86.9	63.7-115		%REC	64780	50	11/29/2005 4:48 PM
Surr: Dibromofluoromethane	80.2	70.4-123		%REC	64780	50	11/29/2005 4:48 PM
Surr: Toluene-d8	90.2	73.4-115		%REC	64780	50	11/29/2005 4:48 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *09-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Southers Grocery
Lab ID: 0511D90-006

Client Sample ID: MW-8
Collection Date: 11/23/2005 9:30:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	1140	99.0		µg/L	64785	5000	11/30/2005 9:59 AM
Surr: 4-Bromofluorobenzene	0	39.4-142	S	%REC	64785	1	11/30/2005 4:57 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	457	1.00		µg/L	64794	1	11/30/2005 7:41 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	12000	N	µg/L	64780	500	11/29/2005 4:23 PM
Ethyl tert-butyl alcohol	BRL	2500	N	µg/L	64780	500	11/29/2005 4:23 PM
Ethyl tert-butyl ether	BRL	2500	N	µg/L	64780	500	11/29/2005 4:23 PM
Isopropyl ether	44000	2500	N	µg/L	64780	500	11/29/2005 4:23 PM
tert-Amyl alcohol	BRL	2500	N	µg/L	64780	500	11/29/2005 4:23 PM
tert-Amyl methyl ether	BRL	2500	N	µg/L	64780	500	11/29/2005 4:23 PM
tert-Butyl Alcohol	BRL	2500	N	µg/L	64780	500	11/29/2005 4:23 PM
tert-Butyl formate	BRL	2500	N	µg/L	64780	500	11/29/2005 4:23 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	500		µg/L	64780	500	11/29/2005 4:23 PM
Benzene	57000	500		µg/L	64780	500	11/29/2005 4:23 PM
1,2-Dichloroethane	BRL	2500		µg/L	64780	500	11/29/2005 4:23 PM
Toluene	380000	5000		µg/L	64780	5000	11/30/2005 4:15 PM
Ethylbenzene	34000	500		µg/L	64780	500	11/29/2005 4:23 PM
m,p-Xylene	120000	500		µg/L	64780	500	11/29/2005 4:23 PM
o-Xylene	47000	500		µg/L	64780	500	11/29/2005 4:23 PM
Naphthalene	12000	2500		µg/L	64780	500	11/29/2005 4:23 PM
Surr: 4-Bromofluorobenzene	89.4	63.7-115		%REC	64780	500	11/29/2005 4:23 PM
Surr: 4-Bromofluorobenzene	91.2	63.7-115		%REC	64780	5000	11/30/2005 4:15 PM
Surr: Dibromofluoromethane	78.9	70.4-123		%REC	64780	500	11/29/2005 4:23 PM
Surr: Dibromofluoromethane	82.4	70.4-123		%REC	64780	5000	11/30/2005 4:15 PM
Surr: Toluene-d8	91.6	73.4-115		%REC	64780	500	11/29/2005 4:23 PM
Surr: Toluene-d8	92.4	73.4-115		%REC	64780	5000	11/30/2005 4:15 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *09-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Southers Grocery
Lab ID: 0511D90-007

Client Sample ID: TRIPBLANK
Collection Date: 11/23/2005
Matrix: TRIP BLANK

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64825	1	11/30/2005 3:50 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64825	1	11/30/2005 3:50 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64825	1	11/30/2005 3:50 PM
Isopropyl ether	BRL	5.0	N	µg/L	64825	1	11/30/2005 3:50 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64825	1	11/30/2005 3:50 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64825	1	11/30/2005 3:50 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64825	1	11/30/2005 3:50 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64825	1	11/30/2005 3:50 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64825	1	11/30/2005 3:50 PM
Benzene	BRL	1.0		µg/L	64825	1	11/30/2005 3:50 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64825	1	11/30/2005 3:50 PM
Toluene	BRL	1.0		µg/L	64825	1	11/30/2005 3:50 PM
Ethylbenzene	BRL	1.0		µg/L	64825	1	11/30/2005 3:50 PM
m,p-Xylene	BRL	1.0		µg/L	64825	1	11/30/2005 3:50 PM
o-Xylene	BRL	1.0		µg/L	64825	1	11/30/2005 3:50 PM
Naphthalene	BRL	5.0		µg/L	64825	1	11/30/2005 3:50 PM
Surr: 4-Bromofluorobenzene	81.0	63.7-115		%REC	64825	1	11/30/2005 3:50 PM
Surr: Dibromofluoromethane	88.7	70.4-123		%REC	64825	1	11/30/2005 3:50 PM
Surr: Toluene-d8	95.4	73.4-115		%REC	64825	1	11/30/2005 3:50 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *01-Dec-05*

CLIENT: Consultech Environmental, Inc.
Work Order: 0511D90
Project: Southers Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W

Sample ID **MB-64794** SampType: **MBLK** TestCode: **6020_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75526**
Client ID: Batch ID: **64794** TestNo: **SW6020** Analysis Date: **11/30/2005** SeqNo: **1493263**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	BRL	1.00									

Sample ID **LCS-64794** SampType: **LCS** TestCode: **6020_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75526**
Client ID: Batch ID: **64794** TestNo: **SW6020** Analysis Date: **11/30/2005** SeqNo: **1493262**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	103.6	1.00	100	0	104	85	115	0	0		

Sample ID **0511D90-001CMS** SampType: **MS** TestCode: **6020_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75526**
Client ID: **MW-21** Batch ID: **64794** TestNo: **SW6020** Analysis Date: **11/30/2005** SeqNo: **1493265**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	102.6	1.00	100	0	103	70	130	0	0		

Sample ID **0511D90-001CMSD** SampType: **MSD** TestCode: **6020_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75526**
Client ID: **MW-21** Batch ID: **64794** TestNo: **SW6020** Analysis Date: **11/30/2005** SeqNo: **1493266**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	103.4	1.00	100	0	103	70	130	102.6	0.777	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0511D90
Project: Southers Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8011_W

Sample ID **MB-64785** SampType: **MBLK** TestCode: **8011_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75465**
Client ID: Batch ID: **64785** TestNo: **SW8011** Analysis Date: **11/30/2005** SeqNo: **1492340**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	BRL	0.0200									
Surr: 4-Bromofluorobenzene	4.501	0.0500	5	0	90	39.4	142	0	0		

Sample ID **LCS-64785** SampType: **LCS** TestCode: **8011_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75465**
Client ID: Batch ID: **64785** TestNo: **SW8011** Analysis Date: **11/30/2005** SeqNo: **1492499**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.132	0.0200	0.1	0	132	55.1	139	0	0		
Surr: 4-Bromofluorobenzene	3.742	0.0500	5	0	74.8	39.4	142	0	0		

Sample ID **LCSD-64785** SampType: **LCSD** TestCode: **8011_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75465**
Client ID: Batch ID: **64785** TestNo: **SW8011** Analysis Date: **11/30/2005** SeqNo: **1492342**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.137	0.0200	0.1	0	137	55.1	139	0.15	0	18.5	
Surr: 4-Bromofluorobenzene	4.156	0.0500	5	0	83.1	39.4	142	4.59	0	0	

Sample ID **0511D90-001BMS** SampType: **MS** TestCode: **8011_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75465**
Client ID: **MW-21** Batch ID: **64785** TestNo: **SW8011** Analysis Date: **11/30/2005** SeqNo: **1492344**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.07105	0.0197	0.09867	0	72	40.7	148	0	0		
Surr: 4-Bromofluorobenzene	3.905	0.0493	4.934	0	79.1	39.4	142	0	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0511D90
Project: Southers Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_OXY_W

Sample ID **MB-64780** SampType: **MBLK** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/28/2005** RunNo: **75384**
Client ID: Batch ID: **64780** TestNo: **SW8260B** Analysis Date: **11/28/2005** SeqNo: **1490825**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	BRL	25									
Ethyl tert-butyl alcohol	BRL	5.0									
Ethyl tert-butyl ether	BRL	5.0									
Isopropyl ether	BRL	5.0									
tert-Amyl alcohol	BRL	5.0									
tert-Amyl methyl ether	BRL	5.0									
tert-Butyl Alcohol	BRL	5.0									
tert-Butyl formate	BRL	5.0									

Sample ID **MB-64825** SampType: **MBLK** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75432**
Client ID: Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/29/2005** SeqNo: **1492594**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	BRL	25									
Ethyl tert-butyl alcohol	BRL	5.0									
Ethyl tert-butyl ether	BRL	5.0									
Isopropyl ether	BRL	5.0									
tert-Amyl alcohol	BRL	5.0									
tert-Amyl methyl ether	BRL	5.0									
tert-Butyl Alcohol	BRL	5.0									
tert-Butyl formate	BRL	5.0									

Sample ID **MB-64825** SampType: **MBLK** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75499**
Client ID: Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/30/2005** SeqNo: **1492807**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	BRL	25									
Ethyl tert-butyl alcohol	BRL	5.0									
Ethyl tert-butyl ether	BRL	5.0									
Isopropyl ether	BRL	5.0									

Qualifiers:
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0511D90
Project: Southers Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_OXY_W

Sample ID **MB-64825** SampType: **MBLK** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75499**
Client ID: Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/30/2005** SeqNo: **1492807**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
tert-Amyl alcohol	BRL	5.0									
tert-Amyl methyl ether	BRL	5.0									
tert-Butyl Alcohol	BRL	5.0									
tert-Butyl formate	BRL	5.0									

Sample ID **LCS-64780** SampType: **LCS** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/28/2005** RunNo: **75384**
Client ID: Batch ID: **64780** TestNo: **SW8260B** Analysis Date: **11/28/2005** SeqNo: **1490826**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	192	25	250	0	76.8	50	150	0	0		
Ethyl tert-butyl alcohol	170.2	5.0	250	0	68.1	50	150	0	0		
Ethyl tert-butyl ether	48.24	5.0	50	0	96.5	50	150	0	0		
Isopropyl ether	46.79	5.0	50	0	93.6	50	150	0	0		
tert-Amyl alcohol	216.7	5.0	250	0	86.7	50	150	0	0		
tert-Amyl methyl ether	46.92	5.0	50	0	93.8	50	150	0	0		
tert-Butyl Alcohol	181.7	5.0	250	0	72.7	50	150	0	0		
tert-Butyl formate	250.4	5.0	250	0	100	50	150	0	0		

Sample ID **LCS-64825** SampType: **LCS** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75432**
Client ID: Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/29/2005** SeqNo: **1492510**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	180.2	25	250	0	72.1	50	150	0	0		
Ethyl tert-butyl alcohol	223.7	5.0	250	0	89.5	50	150	0	0		
Ethyl tert-butyl ether	44.78	5.0	50	0	89.6	50	150	0	0		
Isopropyl ether	41.31	5.0	50	0	82.6	50	150	0	0		
tert-Amyl alcohol	280	5.0	250	0	112	50	150	0	0		
tert-Amyl methyl ether	44.11	5.0	50	0	88.2	50	150	0	0		
tert-Butyl Alcohol	183.8	5.0	250	0	73.5	50	150	0	0		
tert-Butyl formate	191.8	5.0	250	0	76.7	50	150	0	0		

Qualifiers:
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- BRL Below Reporting Limit
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0511D90
Project: Southers Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_OXY_W

Sample ID **0511C76-009AMS** SampType: **MS** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/28/2005** RunNo: **75384**
Client ID: Batch ID: **64780** TestNo: **SW8260B** Analysis Date: **11/28/2005** SeqNo: **1491440**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	443.3	25	250	0	177	50	150	0	0		S
Ethyl tert-butyl alcohol	223.9	5.0	250	0	89.6	50	150	0	0		
Ethyl tert-butyl ether	54.97	5.0	50	0	110	50	150	0	0		
Isopropyl ether	54.3	5.0	50	0	109	50	150	0	0		
tert-Amyl alcohol	295.2	5.0	250	0	118	50	150	0	0		
tert-Amyl methyl ether	52.7	5.0	50	0	105	50	150	0	0		
tert-Butyl Alcohol	465.4	5.0	250	0	186	50	150	0	0		S
tert-Butyl formate	6.21	5.0	250	0	2.48	50	150	0	0		S

Sample ID **0511C76-013AMS** SampType: **MS** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75499**
Client ID: Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/30/2005** SeqNo: **1492838**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	341.7	25	250	0	137	50	150	0	0		
Ethyl tert-butyl alcohol	222.7	5.0	250	0	89.1	50	150	0	0		
Ethyl tert-butyl ether	49.15	5.0	50	0	98.3	50	150	0	0		
Isopropyl ether	48.35	5.0	50	0	96.7	50	150	0	0		
tert-Amyl alcohol	298.7	5.0	250	0	119	50	150	0	0		
tert-Amyl methyl ether	46.7	5.0	50	0	93.4	50	150	0	0		
tert-Butyl Alcohol	288.4	5.0	250	0	115	50	150	0	0		
tert-Butyl formate	244.1	5.0	250	0	97.6	50	150	0	0		

Sample ID **0511C76-009AMSD** SampType: **MSD** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/28/2005** RunNo: **75384**
Client ID: Batch ID: **64780** TestNo: **SW8260B** Analysis Date: **11/28/2005** SeqNo: **1491441**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	480.7	25	250	0	192	50	150	443.3	8.10	40	S
Ethyl tert-butyl alcohol	221.8	5.0	250	0	88.7	50	150	223.9	0.951	40	
Ethyl tert-butyl ether	55.21	5.0	50	0	110	50	150	54.97	0.436	40	
Isopropyl ether	53.73	5.0	50	0	107	50	150	54.3	1.06	40	

Qualifiers:
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- BRL Below Reporting Limit
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0511D90
Project: Southers Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_OXY_W

Sample ID **0511C76-009AMSD** SampType: **MSD** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/28/2005** RunNo: **75384**
Client ID: Batch ID: **64780** TestNo: **SW8260B** Analysis Date: **11/28/2005** SeqNo: **1491441**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
tert-Amyl alcohol	279.5	5.0	250	0	112	50	150	295.2	5.45	40	
tert-Amyl methyl ether	49.28	5.0	50	0	98.6	50	150	52.7	6.71	40	
tert-Butyl Alcohol	464.1	5.0	250	0	186	50	150	465.4	0.273	40	S
tert-Butyl formate	5.24	5.0	250	0	2.1	50	150	6.21	16.9	40	S

Sample ID **0511C76-013AMSD** SampType: **MSD** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75499**
Client ID: Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/30/2005** SeqNo: **1492808**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	318.4	25	250	0	127	50	150	341.7	7.06	40	
Ethyl tert-butyl alcohol	229.1	5.0	250	0	91.7	50	150	222.7	2.83	40	
Ethyl tert-butyl ether	49.58	5.0	50	0	99.2	50	150	49.15	0.871	40	
Isopropyl ether	47.88	5.0	50	0	95.8	50	150	48.35	0.977	40	
tert-Amyl alcohol	288.5	5.0	250	0	115	50	150	298.7	3.48	40	
tert-Amyl methyl ether	45.87	5.0	50	0	91.7	50	150	46.7	1.79	40	
tert-Butyl Alcohol	275.9	5.0	250	0	110	50	150	288.4	4.43	40	
tert-Butyl formate	256.6	5.0	250	0	103	50	150	244.1	5.01	40	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0511D90
Project: Southers Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID **MB-64780** SampType: **MBLK** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/28/2005** RunNo: **75384**
Client ID: Batch ID: **64780** TestNo: **SW8260B** Analysis Date: **11/28/2005** SeqNo: **1490799**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	BRL	5.0									
Benzene	BRL	5.0									
Ethylbenzene	BRL	5.0									
m,p-Xylene	BRL	10									
Methyl tert-butyl ether	BRL	5.0									
Naphthalene	BRL	5.0									
o-Xylene	BRL	5.0									
Toluene	BRL	5.0									
Surr: 4-Bromofluorobenzene	38.86	5.0	50	0	77.7	63.7	115	0	0		
Surr: Dibromofluoromethane	44.01	5.0	50	0	88	70.4	123	0	0		
Surr: Toluene-d8	47.3	5.0	50	0	94.6	73.4	115	0	0		

Sample ID **MB-64825** SampType: **MBLK** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75432**
Client ID: Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/29/2005** SeqNo: **1491547**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	BRL	5.0									
Benzene	BRL	5.0									
Ethylbenzene	BRL	5.0									
m,p-Xylene	BRL	10									
Methyl tert-butyl ether	BRL	5.0									
Naphthalene	BRL	5.0									
o-Xylene	BRL	5.0									
Toluene	BRL	5.0									
Surr: 4-Bromofluorobenzene	39.59	5.0	50	0	79.2	63.7	115	0	0		
Surr: Dibromofluoromethane	42.77	5.0	50	0	85.5	70.4	123	0	0		
Surr: Toluene-d8	45.58	5.0	50	0	91.2	73.4	115	0	0		

Qualifiers:
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- BRL Below Reporting Limit
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0511D90
Project: Southers Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID **MB-64825** SampType: **MBLK** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75499**
Client ID: Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/30/2005** SeqNo: **1492756**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	BRL	5.0									
Benzene	BRL	5.0									
Ethylbenzene	BRL	5.0									
m,p-Xylene	BRL	10									
Methyl tert-butyl ether	BRL	5.0									
Naphthalene	BRL	5.0									
o-Xylene	BRL	5.0									
Toluene	BRL	5.0									
Surr: 4-Bromofluorobenzene	40.75	5.0	50	0	81.5	63.7	115	0	0		
Surr: Dibromofluoromethane	43.04	5.0	50	0	86.1	70.4	123	0	0		
Surr: Toluene-d8	44.66	5.0	50	0	89.3	73.4	115	0	0		

Sample ID **LCS-64780** SampType: **LCS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/28/2005** RunNo: **75384**
Client ID: Batch ID: **64780** TestNo: **SW8260B** Analysis Date: **11/28/2005** SeqNo: **1490800**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	46.36	5.0	50	0	92.7	77.4	127	0	0		
Toluene	49.66	5.0	50	0	99.3	79.6	127	0	0		
Surr: 4-Bromofluorobenzene	38.78	5.0	50	0	77.6	63.7	115	0	0		
Surr: Dibromofluoromethane	42.45	5.0	50	0	84.9	70.4	123	0	0		
Surr: Toluene-d8	47.97	5.0	50	0	95.9	73.4	115	0	0		

Sample ID **LCS-64825** SampType: **LCS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75432**
Client ID: Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/29/2005** SeqNo: **1492357**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	48.26	5.0	50	0	96.5	77.4	127	0	0		
Toluene	49.14	5.0	50	0	98.3	79.6	127	0	0		
Surr: 4-Bromofluorobenzene	42.23	5.0	50	0	84.5	63.7	115	0	0		
Surr: Dibromofluoromethane	39.21	5.0	50	0	78.4	70.4	123	0	0		

Qualifiers:
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0511D90
Project: Southers Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID **LCS-64825** SampType: **LCS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75432**
Client ID: Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/29/2005** SeqNo: **1492357**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	46.07	5.0	50	0	92.1	73.4	115	0	0		

Sample ID **0511C76-009AMS** SampType: **MS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/28/2005** RunNo: **75384**
Client ID: Batch ID: **64780** TestNo: **SW8260B** Analysis Date: **11/28/2005** SeqNo: **1491321**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	46.33	5.0	50	0	92.7	72.6	130	0	0		
Toluene	55.07	5.0	50	4.81	101	74.7	129	0	0		
Surr: 4-Bromofluorobenzene	41.18	5.0	50	0	82.4	63.7	115	0	0		
Surr: Dibromofluoromethane	40.64	5.0	50	0	81.3	70.4	123	0	0		
Surr: Toluene-d8	48.2	5.0	50	0	96.4	73.4	115	0	0		

Sample ID **0511C76-013AMS** SampType: **MS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75499**
Client ID: Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/30/2005** SeqNo: **1492776**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	49.51	5.0	50	0	99	72.6	130	0	0		
Toluene	52.17	5.0	50	0	104	74.7	129	0	0		
Surr: 4-Bromofluorobenzene	39.87	5.0	50	0	79.7	63.7	115	0	0		
Surr: Dibromofluoromethane	40.86	5.0	50	0	81.7	70.4	123	0	0		
Surr: Toluene-d8	48.27	5.0	50	0	96.5	73.4	115	0	0		

Sample ID **0511C76-009AMSD** SampType: **MSD** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/28/2005** RunNo: **75384**
Client ID: Batch ID: **64780** TestNo: **SW8260B** Analysis Date: **11/28/2005** SeqNo: **1491323**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	45.06	5.0	50	0	90.1	72.6	130	0	0	10	
Toluene	52.9	5.0	50	4.81	96.2	74.7	129	0	0	10	
Surr: 4-Bromofluorobenzene	39.66	5.0	50	0	79.3	63.7	115	0	0	0	
Surr: Dibromofluoromethane	39.53	5.0	50	0	79.1	70.4	123	0	0	0	

Qualifiers:
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- BRL Below Reporting Limit
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0511D90
Project: Southers Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID **0511C76-009AMSD** SampType: **MSD** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/28/2005** RunNo: **75384**
Client ID: Batch ID: **64780** TestNo: **SW8260B** Analysis Date: **11/28/2005** SeqNo: **1491323**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	48.19	5.0	50	0	96.4	73.4	115	0	0	0	

Sample ID **0511C76-013AMSD** SampType: **MSD** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75499**
Client ID: Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/30/2005** SeqNo: **1492777**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	49.27	5.0	50	0	98.5	72.6	130	49.51	0.486	10	
Toluene	50.6	5.0	50	0	101	74.7	129	52.17	3.06	10	
Surr: 4-Bromofluorobenzene	39.57	5.0	50	0	79.1	63.7	115	39.87	0	0	
Surr: Dibromofluoromethane	41.43	5.0	50	0	82.9	70.4	123	40.86	0	0	
Surr: Toluene-d8	47.04	5.0	50	0	94.1	73.4	115	48.27	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

December 16, 2005

Jim Wilson
Consultech Environmental, Inc.
1800 MacLeod Rd Suite F
Suite F
Lawrenceville, GA 30043

TEL: (678) 377-0400
FAX (678) 377-0051

RE: Souther's Grocery

Order No.: 0512376

Dear Jim Wilson:

Analytical Environmental Services, Inc. received 15 samples on 12/8/2005 9:55:00 AM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. Sample results are not dry weight corrected, unless if Pmoist analysis are requested on the chain of custody or other project specific arrangements have been made.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 06/01/05-06/30/06.
-AIHA Certification number 505 for analysis of Industrial Hygiene samples (Organics, Inorganics), Paint Chips, Soil and Dust Wipes, effective until 02/01/07.

These results relate only to the items tested. This report may only be reproduced in full and contains 47 total pages (including cover letter).

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

Sincerely,

Mila Crain

Mila Crain
Customer Service Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 0512376

Date: _____ Page _____ of _____

COMPANY: Consultech Environmental

ADDRESS: 1800 Macleod Dr. Suite F. Lawrenceville Ga. 30043

PHONE: 678 377 0400

FAX:

SAMPLED BY: Drew Miller

SIGNATURE: Drew Miller

ANALYSIS REQUESTED

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	BTEX MBE NAPH 8260B	EDB 8011	Total Lead	Dissolved Iron	Nitrate Sulfate	Methane	REMARKS	No # of Containers
	PRESERVATION (See codes)						2	2	1	1	1	2		
1	RW-1	12/6	1130			GW	X	X	X					5
2	PW-1	12/6	1145				X	X	X					5
3	PW-2	12/6	1100				X	X	X					5
4	MW-12	12/6	1300				X	X	X					5
5	MW-16	12/6	1215				X	X	X					5
6	MW 23	12/6	1200				X	X	X					5
7	MW-24	12/6	1230				X	X	X					5
8	MW-25	12/6	1245				X	X	X					5
9	MW-26	12/7	1100				X	X	X	X	X	X		9
10	MW-29	12/7	930				X	X	X	X	X	X		9
11	MW-32	12/7	900				X	X	X	X	X	X		9
12	MW-15R	12/7	1000				X	X	X	X	X	X		9
13	MW-14R	12/7	1200				X	X	X	X	X	X		9
14														

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: Drew Miller	12/8	1: [illegible]	12/8/05 9:55
2:		2:	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER_____

PROJECT INFORMATION
PROJECT NAME: Southern Grocery
PROJECT #: C-05-02-015
SITE ADDRESS: Campobello S.C.
SEND REPORT TO: Jim Wilson
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #:_____ PO#:_____

RECEIPT
Total # of Containers 85

Turnaround Time Request
- Standard 5 Business Days
- 2 Business Day Rush
- Next Business Day Rush
- Same Day Rush (auth req.)
- Other _____

STATE PROGRAM (if any): _____
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: [illegible] GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
PRESERVATIVE CO[illegible] H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I[illegible]m Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow C[illegible] Client

Analytical Environmental Services, Inc. **Date:** *16-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab Order: 0512376

CASE NARRATIVE

Sample Receipt Non-Conformance:

Two sets of trip blanks were provided but is not listed on the COC. Trip blank will be analyzed at no cost to client.

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 4th Edition. All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives unless indicated in the case narrative.

Volatile Organic Compounds Analysis by Method 8260B:

Matrix spike and matrix spike duplicate recoveries for tert-Butyl Alcohol on sample 0512376-006AMS/MSD were outside control limits biased high. LCS recovery was within control limits indicating possible matrix interference.

Matrix spike and matrix spike duplicate recoveries for tert-Butyl formate on sample 0512376-006AMS/MSD were outside control limits biased low. LCS recovery was within control limits indicating possible matrix interference.

RPD value for Ethanol on sample 0512376-006AMSD was outside advisory control limits due to suspected sample matrix interference. Percent recovery was within control limits.

Due to sample matrix, samples 0512376-001A, -010A, and -011A required dilution during preparation and/or analysis resulting in elevated reporting limits.

EDB/DBCP Analysis by Method 8011:

Percent recovery for the surrogate spiking compound on sample 0512376-010C was outside control limits biased low due to matrix interference.

Analytical Environmental Services, Inc.

Date: *16-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0512376-001

Client Sample ID: RW-1
Collection Date: 12/6/2005 11:30:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	13.8	1.96		µg/L	65318	100	12/13/2005 11:43 AM
Surr: 4-Bromofluorobenzene	91.9	39.4-142		%REC	65318	1	12/13/2005 12:58 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	18.3	1.00		µg/L	65221	1	12/13/2005 2:46 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	12000	N	µg/L	65243	500	12/9/2005 1:51 PM
Ethyl tert-butyl alcohol	BRL	2500	N	µg/L	65243	500	12/9/2005 1:51 PM
Ethyl tert-butyl ether	BRL	2500	N	µg/L	65243	500	12/9/2005 1:51 PM
Isopropyl ether	2600	2500	N	µg/L	65243	500	12/9/2005 1:51 PM
tert-Amyl alcohol	BRL	2500	N	µg/L	65243	500	12/9/2005 1:51 PM
tert-Amyl methyl ether	BRL	2500	N	µg/L	65243	500	12/9/2005 1:51 PM
tert-Butyl Alcohol	BRL	2500	N	µg/L	65243	500	12/9/2005 1:51 PM
tert-Butyl formate	BRL	2500	N	µg/L	65243	500	12/9/2005 1:51 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	500		µg/L	65243	500	12/9/2005 1:51 PM
Benzene	9500	500		µg/L	65243	500	12/9/2005 1:51 PM
1,2-Dichloroethane	BRL	2500		µg/L	65243	500	12/9/2005 1:51 PM
Toluene	54000	500		µg/L	65243	500	12/9/2005 1:51 PM
Ethylbenzene	6400	500		µg/L	65243	500	12/9/2005 1:51 PM
m,p-Xylene	25000	500		µg/L	65243	500	12/9/2005 1:51 PM
o-Xylene	10000	500		µg/L	65243	500	12/9/2005 1:51 PM
Naphthalene	3400	2500		µg/L	65243	500	12/9/2005 1:51 PM
Surr: 4-Bromofluorobenzene	91.8	63.7-115		%REC	65243	500	12/9/2005 1:51 PM
Surr: Dibromofluoromethane	83.1	70.4-123		%REC	65243	500	12/9/2005 1:51 PM
Surr: Toluene-d8	93.0	73.4-115		%REC	65243	500	12/9/2005 1:51 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *16-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0512376-002

Client Sample ID: PW-1
Collection Date: 12/6/2005 11:45:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	65318	1	12/13/2005 1:21 AM
Surr: 4-Bromofluorobenzene	40.6	39.4-142		%REC	65318	1	12/13/2005 1:21 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	37.1	1.00		µg/L	65221	1	12/13/2005 2:51 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	1200	25	N	µg/L	65243	1	12/9/2005 8:09 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	65243	1	12/9/2005 8:09 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65243	1	12/9/2005 8:09 PM
Isopropyl ether	BRL	5.0	N	µg/L	65243	1	12/9/2005 8:09 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	65243	1	12/9/2005 8:09 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	65243	1	12/9/2005 8:09 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	65243	1	12/9/2005 8:09 PM
tert-Butyl formate	BRL	5.0	N	µg/L	65243	1	12/9/2005 8:09 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	65243	1	12/9/2005 8:09 PM
Benzene	BRL	1.0		µg/L	65243	1	12/9/2005 8:09 PM
1,2-Dichloroethane	BRL	5.0		µg/L	65243	1	12/9/2005 8:09 PM
Toluene	3.1	1.0		µg/L	65243	1	12/9/2005 8:09 PM
Ethylbenzene	BRL	1.0		µg/L	65243	1	12/9/2005 8:09 PM
m,p-Xylene	2.4	1.0		µg/L	65243	1	12/9/2005 8:09 PM
o-Xylene	3.5	1.0		µg/L	65243	1	12/9/2005 8:09 PM
Naphthalene	BRL	5.0		µg/L	65243	1	12/9/2005 8:09 PM
Surr: 4-Bromofluorobenzene	83.9	63.7-115		%REC	65243	1	12/9/2005 8:09 PM
Surr: Dibromofluoromethane	93.2	70.4-123		%REC	65243	1	12/9/2005 8:09 PM
Surr: Toluene-d8	91.3	73.4-115		%REC	65243	1	12/9/2005 8:09 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *16-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0512376-003

Client Sample ID: PW-2
Collection Date: 12/6/2005 11:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	0.063	0.020		µg/L	65318	1	12/13/2005 1:44 AM
Surr: 4-Bromofluorobenzene	40.2	39.4-142		%REC	65318	1	12/13/2005 1:44 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	BRL	1.00		µg/L	65221	1	12/13/2005 2:57 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	65243	1	12/12/2005 3:34 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 3:34 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 3:34 PM
Isopropyl ether	81	5.0	N	µg/L	65243	1	12/12/2005 3:34 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 3:34 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 3:34 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 3:34 PM
tert-Butyl formate	BRL	5.0	N	µg/L	65243	1	12/12/2005 3:34 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	65243	1	12/12/2005 3:34 PM
Benzene	BRL	1.0		µg/L	65243	1	12/12/2005 3:34 PM
1,2-Dichloroethane	BRL	5.0		µg/L	65243	1	12/12/2005 3:34 PM
Toluene	BRL	1.0		µg/L	65243	1	12/12/2005 3:34 PM
Ethylbenzene	BRL	1.0		µg/L	65243	1	12/12/2005 3:34 PM
m,p-Xylene	BRL	1.0		µg/L	65243	1	12/12/2005 3:34 PM
o-Xylene	BRL	1.0		µg/L	65243	1	12/12/2005 3:34 PM
Naphthalene	BRL	5.0		µg/L	65243	1	12/12/2005 3:34 PM
Surr: 4-Bromofluorobenzene	76.3	63.7-115		%REC	65243	1	12/12/2005 3:34 PM
Surr: Dibromofluoromethane	93.1	70.4-123		%REC	65243	1	12/12/2005 3:34 PM
Surr: Toluene-d8	92.2	73.4-115		%REC	65243	1	12/12/2005 3:34 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *16-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0512376-004

Client Sample ID: MW-12
Collection Date: 12/6/2005 1:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	65318	1	12/13/2005 2:30 AM
Surr: 4-Bromofluorobenzene	40.5	39.4-142		%REC	65318	1	12/13/2005 2:30 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	BRL	1.00		µg/L	65221	1	12/13/2005 3:02 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	65243	1	12/12/2005 3:59 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 3:59 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 3:59 PM
Isopropyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 3:59 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 3:59 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 3:59 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 3:59 PM
tert-Butyl formate	BRL	5.0	N	µg/L	65243	1	12/12/2005 3:59 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	65243	1	12/12/2005 3:59 PM
Benzene	BRL	1.0		µg/L	65243	1	12/12/2005 3:59 PM
1,2-Dichloroethane	BRL	5.0		µg/L	65243	1	12/12/2005 3:59 PM
Toluene	BRL	1.0		µg/L	65243	1	12/12/2005 3:59 PM
Ethylbenzene	BRL	1.0		µg/L	65243	1	12/12/2005 3:59 PM
m,p-Xylene	BRL	1.0		µg/L	65243	1	12/12/2005 3:59 PM
o-Xylene	BRL	1.0		µg/L	65243	1	12/12/2005 3:59 PM
Naphthalene	BRL	5.0		µg/L	65243	1	12/12/2005 3:59 PM
Surr: 4-Bromofluorobenzene	78.3	63.7-115		%REC	65243	1	12/12/2005 3:59 PM
Surr: Dibromofluoromethane	91.8	70.4-123		%REC	65243	1	12/12/2005 3:59 PM
Surr: Toluene-d8	91.1	73.4-115		%REC	65243	1	12/12/2005 3:59 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *16-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0512376-005

Client Sample ID: MW-16
Collection Date: 12/6/2005 12:15:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	65318	1	12/13/2005 2:53 AM
Surr: 4-Bromofluorobenzene	41.8	39.4-142		%REC	65318	1	12/13/2005 2:53 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	1.17	1.00		µg/L	65221	1	12/13/2005 3:07 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	65243	1	12/12/2005 4:24 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 4:24 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 4:24 PM
Isopropyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 4:24 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 4:24 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 4:24 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 4:24 PM
tert-Butyl formate	BRL	5.0	N	µg/L	65243	1	12/12/2005 4:24 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	65243	1	12/12/2005 4:24 PM
Benzene	BRL	1.0		µg/L	65243	1	12/12/2005 4:24 PM
1,2-Dichloroethane	BRL	5.0		µg/L	65243	1	12/12/2005 4:24 PM
Toluene	BRL	1.0		µg/L	65243	1	12/12/2005 4:24 PM
Ethylbenzene	BRL	1.0		µg/L	65243	1	12/12/2005 4:24 PM
m,p-Xylene	BRL	1.0		µg/L	65243	1	12/12/2005 4:24 PM
o-Xylene	BRL	1.0		µg/L	65243	1	12/12/2005 4:24 PM
Naphthalene	BRL	5.0		µg/L	65243	1	12/12/2005 4:24 PM
Surr: 4-Bromofluorobenzene	81.8	63.7-115		%REC	65243	1	12/12/2005 4:24 PM
Surr: Dibromofluoromethane	88.5	70.4-123		%REC	65243	1	12/12/2005 4:24 PM
Surr: Toluene-d8	90.6	73.4-115		%REC	65243	1	12/12/2005 4:24 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *16-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0512376-006

Client Sample ID: MW-23
Collection Date: 12/6/2005 12:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	65318	1	12/13/2005 3:16 AM
Surr: 4-Bromofluorobenzene	40.2	39.4-142		%REC	65318	1	12/13/2005 3:16 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	22.6	1.00		µg/L	65221	1	12/13/2005 3:13 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	65243	1	12/9/2005 6:54 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	65243	1	12/9/2005 6:54 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65243	1	12/9/2005 6:54 PM
Isopropyl ether	BRL	5.0	N	µg/L	65243	1	12/9/2005 6:54 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	65243	1	12/9/2005 6:54 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	65243	1	12/9/2005 6:54 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	65243	1	12/9/2005 6:54 PM
tert-Butyl formate	BRL	5.0	N	µg/L	65243	1	12/9/2005 6:54 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	65243	1	12/9/2005 6:54 PM
Benzene	BRL	1.0		µg/L	65243	1	12/9/2005 6:54 PM
1,2-Dichloroethane	BRL	5.0		µg/L	65243	1	12/9/2005 6:54 PM
Toluene	BRL	1.0		µg/L	65243	1	12/9/2005 6:54 PM
Ethylbenzene	BRL	1.0		µg/L	65243	1	12/9/2005 6:54 PM
m,p-Xylene	BRL	1.0		µg/L	65243	1	12/9/2005 6:54 PM
o-Xylene	BRL	1.0		µg/L	65243	1	12/9/2005 6:54 PM
Naphthalene	BRL	5.0		µg/L	65243	1	12/9/2005 6:54 PM
Surr: 4-Bromofluorobenzene	79.4	63.7-115		%REC	65243	1	12/9/2005 6:54 PM
Surr: Dibromofluoromethane	88.8	70.4-123		%REC	65243	1	12/9/2005 6:54 PM
Surr: Toluene-d8	91.6	73.4-115		%REC	65243	1	12/9/2005 6:54 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *16-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0512376-007

Client Sample ID: MW-24
Collection Date: 12/6/2005 12:30:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	65318	1	12/13/2005 3:39 AM
Surr: 4-Bromofluorobenzene	43.8	39.4-142		%REC	65318	1	12/13/2005 3:39 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	BRL	1.00		µg/L	65221	1	12/13/2005 3:18 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	65243	1	12/12/2005 4:49 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 4:49 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 4:49 PM
Isopropyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 4:49 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 4:49 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 4:49 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 4:49 PM
tert-Butyl formate	BRL	5.0	N	µg/L	65243	1	12/12/2005 4:49 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	65243	1	12/12/2005 4:49 PM
Benzene	BRL	1.0		µg/L	65243	1	12/12/2005 4:49 PM
1,2-Dichloroethane	BRL	5.0		µg/L	65243	1	12/12/2005 4:49 PM
Toluene	BRL	1.0		µg/L	65243	1	12/12/2005 4:49 PM
Ethylbenzene	BRL	1.0		µg/L	65243	1	12/12/2005 4:49 PM
m,p-Xylene	BRL	1.0		µg/L	65243	1	12/12/2005 4:49 PM
o-Xylene	BRL	1.0		µg/L	65243	1	12/12/2005 4:49 PM
Naphthalene	BRL	5.0		µg/L	65243	1	12/12/2005 4:49 PM
Surr: 4-Bromofluorobenzene	79.6	63.7-115		%REC	65243	1	12/12/2005 4:49 PM
Surr: Dibromofluoromethane	89.8	70.4-123		%REC	65243	1	12/12/2005 4:49 PM
Surr: Toluene-d8	91.0	73.4-115		%REC	65243	1	12/12/2005 4:49 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *16-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0512376-008

Client Sample ID: MW-25
Collection Date: 12/6/2005 12:45:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	65318	1	12/13/2005 4:02 AM
Surr: 4-Bromofluorobenzene	41.7	39.4-142		%REC	65318	1	12/13/2005 4:02 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	BRL	1.00		µg/L	65221	1	12/13/2005 3:23 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	65243	1	12/12/2005 5:14 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 5:14 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 5:14 PM
Isopropyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 5:14 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 5:14 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 5:14 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 5:14 PM
tert-Butyl formate	BRL	5.0	N	µg/L	65243	1	12/12/2005 5:14 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	65243	1	12/12/2005 5:14 PM
Benzene	BRL	1.0		µg/L	65243	1	12/12/2005 5:14 PM
1,2-Dichloroethane	BRL	5.0		µg/L	65243	1	12/12/2005 5:14 PM
Toluene	BRL	1.0		µg/L	65243	1	12/12/2005 5:14 PM
Ethylbenzene	BRL	1.0		µg/L	65243	1	12/12/2005 5:14 PM
m,p-Xylene	BRL	1.0		µg/L	65243	1	12/12/2005 5:14 PM
o-Xylene	BRL	1.0		µg/L	65243	1	12/12/2005 5:14 PM
Naphthalene	BRL	5.0		µg/L	65243	1	12/12/2005 5:14 PM
Surr: 4-Bromofluorobenzene	81.3	63.7-115		%REC	65243	1	12/12/2005 5:14 PM
Surr: Dibromofluoromethane	93.3	70.4-123		%REC	65243	1	12/12/2005 5:14 PM
Surr: Toluene-d8	92.8	73.4-115		%REC	65243	1	12/12/2005 5:14 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *16-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0512376-009

Client Sample ID: MW-26
Collection Date: 12/7/2005 11:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	65319	1	12/13/2005 7:51 AM
Surr: 4-Bromofluorobenzene	41.1	39.4-142		%REC	65319	1	12/13/2005 7:51 AM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	BRL	4.0		µg/L	65425	1	12/14/2005 3:46 PM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	0.25	0.25		mg/L		1	12/8/2005 2:46 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	26	1.0		mg/L		1	12/8/2005 2:46 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	6.52	1.00		µg/L	65221	1	12/13/2005 3:28 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	BRL	100		µg/L	65198	1	12/13/2005 8:49 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	65243	1	12/12/2005 5:39 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 5:39 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 5:39 PM
Isopropyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 5:39 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 5:39 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 5:39 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 5:39 PM
tert-Butyl formate	BRL	5.0	N	µg/L	65243	1	12/12/2005 5:39 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	65243	1	12/12/2005 5:39 PM
Benzene	BRL	1.0		µg/L	65243	1	12/12/2005 5:39 PM
1,2-Dichloroethane	BRL	5.0		µg/L	65243	1	12/12/2005 5:39 PM
Toluene	BRL	1.0		µg/L	65243	1	12/12/2005 5:39 PM
Ethylbenzene	BRL	1.0		µg/L	65243	1	12/12/2005 5:39 PM
m,p-Xylene	BRL	1.0		µg/L	65243	1	12/12/2005 5:39 PM
o-Xylene	BRL	1.0		µg/L	65243	1	12/12/2005 5:39 PM
Naphthalene	BRL	5.0		µg/L	65243	1	12/12/2005 5:39 PM
Surr: 4-Bromofluorobenzene	81.1	63.7-115		%REC	65243	1	12/12/2005 5:39 PM
Surr: Dibromofluoromethane	96.2	70.4-123		%REC	65243	1	12/12/2005 5:39 PM
Surr: Toluene-d8	94.0	73.4-115		%REC	65243	1	12/12/2005 5:39 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *16-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0512376-010

Client Sample ID: MW-29
Collection Date: 12/7/2005 9:30:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS			**SW8011**				Analyst: **MM**
1,2-Dibromoethane	179	39.4		µg/L	65319	2000	12/13/2005 12:06 PM
Surr: 4-Bromofluorobenzene	0	39.4-142	S	%REC	65319	1	12/13/2005 8:14 AM
GC ANALYSIS OF GASEOUS SAMPLES			**SOP-RSK 175**				Analyst: **JMZ**
Methane	7.4	4.0		µg/L	65425	1	12/14/2005 3:57 PM
ION SCAN			**SW9056**				Analyst: **CT**
Nitrate	BRL	0.25		mg/L		1	12/8/2005 3:00 PM
ION SCAN			**SW9056**				Analyst: **CT**
Sulfate	BRL	1.0		mg/L		1	12/8/2005 3:00 PM
TOTAL METALS BY ICP/MS			**SW6020**		**(SW3005A)**		Analyst: **SSS**
Lead	30.4	1.00		µg/L	65221	1	12/13/2005 3:34 PM
DISSOLVED METALS BY ICP/MS			**SW6020**				Analyst: **SSS**
Iron	BRL	100		µg/L	65198	1	12/13/2005 9:15 PM
OXYGENATES BY GC/MS			**SW8260B**		**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	250	N	µg/L	65243	10	12/9/2005 2:16 PM
Ethyl tert-butyl alcohol	2600	50	N	µg/L	65243	10	12/9/2005 2:16 PM
Ethyl tert-butyl ether	BRL	50	N	µg/L	65243	10	12/9/2005 2:16 PM
Isopropyl ether	2900	50	N	µg/L	65243	10	12/9/2005 2:16 PM
tert-Amyl alcohol	BRL	50	N	µg/L	65243	10	12/9/2005 2:16 PM
tert-Amyl methyl ether	BRL	50	N	µg/L	65243	10	12/9/2005 2:16 PM
tert-Butyl Alcohol	860	50	N	µg/L	65243	10	12/9/2005 2:16 PM
tert-Butyl formate	BRL	50	N	µg/L	65243	10	12/9/2005 2:16 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**SW8260B**		**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	10		µg/L	65243	10	12/9/2005 2:16 PM
Benzene	13000	100		µg/L	65243	100	12/12/2005 2:41 PM
1,2-Dichloroethane	380	50		µg/L	65243	10	12/9/2005 2:16 PM
Toluene	16000	100		µg/L	65243	100	12/12/2005 2:41 PM
Ethylbenzene	1000	10		µg/L	65243	10	12/9/2005 2:16 PM
m,p-Xylene	3700	100		µg/L	65243	100	12/12/2005 2:41 PM
o-Xylene	1700	10		µg/L	65243	10	12/9/2005 2:16 PM
Naphthalene	430	50		µg/L	65243	10	12/9/2005 2:16 PM
Surr: 4-Bromofluorobenzene	89.5	63.7-115		%REC	65243	100	12/12/2005 2:41 PM
Surr: 4-Bromofluorobenzene	91.0	63.7-115		%REC	65243	10	12/9/2005 2:16 PM
Surr: Dibromofluoromethane	74.7	70.4-123		%REC	65243	10	12/9/2005 2:16 PM
Surr: Dibromofluoromethane	80.7	70.4-123		%REC	65243	100	12/12/2005 2:41 PM
Surr: Toluene-d8	91.5	73.4-115		%REC	65243	100	12/12/2005 2:41 PM
Surr: Toluene-d8	95.4	73.4-115		%REC	65243	10	12/9/2005 2:16 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *16-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0512376-011

Client Sample ID: MW-32
Collection Date: 12/7/2005 9:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	578	101		µg/L	65319	5000	12/13/2005 2:35 PM
Surr: 4-Bromofluorobenzene	49.0	39.4-142		%REC	65319	1	12/13/2005 8:37 AM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	13	4.0		µg/L	65425	1	12/14/2005 4:06 PM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	BRL	0.25		mg/L		1	12/8/2005 4:27 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	13	1.0		mg/L		1	12/8/2005 4:27 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	164	1.00		µg/L	65221	1	12/13/2005 3:50 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	2010	100		µg/L	65198	1	12/14/2005 2:46 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	12000	N	µg/L	65243	500	12/9/2005 1:26 PM
Ethyl tert-butyl alcohol	BRL	2500	N	µg/L	65243	500	12/9/2005 1:26 PM
Ethyl tert-butyl ether	BRL	2500	N	µg/L	65243	500	12/9/2005 1:26 PM
Isopropyl ether	11000	2500	N	µg/L	65243	500	12/9/2005 1:26 PM
tert-Amyl alcohol	BRL	2500	N	µg/L	65243	500	12/9/2005 1:26 PM
tert-Amyl methyl ether	BRL	2500	N	µg/L	65243	500	12/9/2005 1:26 PM
tert-Butyl Alcohol	BRL	2500	N	µg/L	65243	500	12/9/2005 1:26 PM
tert-Butyl formate	BRL	2500	N	µg/L	65243	500	12/9/2005 1:26 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	500		µg/L	65243	500	12/9/2005 1:26 PM
Benzene	36000	500		µg/L	65243	500	12/9/2005 1:26 PM
1,2-Dichloroethane	BRL	2500		µg/L	65243	500	12/9/2005 1:26 PM
Toluene	52000	500		µg/L	65243	500	12/9/2005 1:26 PM
Ethylbenzene	3200	500		µg/L	65243	500	12/9/2005 1:26 PM
m,p-Xylene	13000	500		µg/L	65243	500	12/9/2005 1:26 PM
o-Xylene	5600	500		µg/L	65243	500	12/9/2005 1:26 PM
Naphthalene	2900	2500		µg/L	65243	500	12/9/2005 1:26 PM
Surr: 4-Bromofluorobenzene	93.1	63.7-115		%REC	65243	500	12/9/2005 1:26 PM
Surr: Dibromofluoromethane	81.6	70.4-123		%REC	65243	500	12/9/2005 1:26 PM
Surr: Toluene-d8	88.4	73.4-115		%REC	65243	500	12/9/2005 1:26 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *16-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0512376-012

Client Sample ID: MW-15R
Collection Date: 12/7/2005 10:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS			**SW8011**				Analyst: **MM**
1,2-Dibromoethane	0.048	0.020		µg/L	65319	1	12/13/2005 2:58 PM
Surr: 4-Bromofluorobenzene	44.8	39.4-142		%REC	65319	1	12/13/2005 2:58 PM
GC ANALYSIS OF GASEOUS SAMPLES			**SOP-RSK 175**				Analyst: **JMZ**
Methane	BRL	4.0		µg/L	65425	1	12/14/2005 4:16 PM
ION SCAN			**SW9056**				Analyst: **CT**
Nitrate	BRL	0.25		mg/L		1	12/8/2005 3:15 PM
ION SCAN			**SW9056**				Analyst: **CT**
Sulfate	25	1.0		mg/L		1	12/8/2005 3:15 PM
TOTAL METALS BY ICP/MS			**SW6020**		**(SW3005A)**		Analyst: **SSS**
Lead	84.0	1.00		µg/L	65221	1	12/13/2005 3:55 PM
DISSOLVED METALS BY ICP/MS			**SW6020**				Analyst: **SSS**
Iron	BRL	100		µg/L	65198	1	12/13/2005 9:26 PM
OXYGENATES BY GC/MS			**SW8260B**		**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	65243	1	12/12/2005 6:04 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 6:04 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 6:04 PM
Isopropyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 6:04 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 6:04 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 6:04 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 6:04 PM
tert-Butyl formate	BRL	5.0	N	µg/L	65243	1	12/12/2005 6:04 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**SW8260B**		**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	65243	1	12/12/2005 6:04 PM
Benzene	3.2	1.0		µg/L	65243	1	12/12/2005 6:04 PM
1,2-Dichloroethane	BRL	5.0		µg/L	65243	1	12/12/2005 6:04 PM
Toluene	BRL	1.0		µg/L	65243	1	12/12/2005 6:04 PM
Ethylbenzene	BRL	1.0		µg/L	65243	1	12/12/2005 6:04 PM
m,p-Xylene	BRL	1.0		µg/L	65243	1	12/12/2005 6:04 PM
o-Xylene	2.8	1.0		µg/L	65243	1	12/12/2005 6:04 PM
Naphthalene	BRL	5.0		µg/L	65243	1	12/12/2005 6:04 PM
Surr: 4-Bromofluorobenzene	78.3	63.7-115		%REC	65243	1	12/12/2005 6:04 PM
Surr: Dibromofluoromethane	92.7	70.4-123		%REC	65243	1	12/12/2005 6:04 PM
Surr: Toluene-d8	94.1	73.4-115		%REC	65243	1	12/12/2005 6:04 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *16-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0512376-013

Client Sample ID: MW-14R
Collection Date: 12/7/2005 12:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS			**SW8011**				Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	65319	1	12/13/2005 9:23 AM
Surr: 4-Bromofluorobenzene	41.3	39.4-142		%REC	65319	1	12/13/2005 9:23 AM
GC ANALYSIS OF GASEOUS SAMPLES			**SOP-RSK 175**				Analyst: **JMZ**
Methane	BRL	4.0		µg/L	65425	1	12/14/2005 4:25 PM
ION SCAN			**SW9056**				Analyst: **CT**
Nitrate	BRL	0.25		mg/L		1	12/8/2005 3:30 PM
ION SCAN			**SW9056**				Analyst: **CT**
Sulfate	24	1.0		mg/L		1	12/8/2005 3:30 PM
TOTAL METALS BY ICP/MS			**SW6020**		**(SW3005A)**		Analyst: **SSS**
Lead	51.8	1.00		µg/L	65221	1	12/13/2005 4:00 PM
DISSOLVED METALS BY ICP/MS			**SW6020**				Analyst: **SSS**
Iron	217	100		µg/L	65198	1	12/14/2005 2:52 PM
OXYGENATES BY GC/MS			**SW8260B**		**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	65243	1	12/12/2005 6:29 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 6:29 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 6:29 PM
Isopropyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 6:29 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 6:29 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 6:29 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 6:29 PM
tert-Butyl formate	BRL	5.0	N	µg/L	65243	1	12/12/2005 6:29 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**SW8260B**		**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	65243	1	12/12/2005 6:29 PM
Benzene	BRL	1.0		µg/L	65243	1	12/12/2005 6:29 PM
1,2-Dichloroethane	BRL	5.0		µg/L	65243	1	12/12/2005 6:29 PM
Toluene	BRL	1.0		µg/L	65243	1	12/12/2005 6:29 PM
Ethylbenzene	BRL	1.0		µg/L	65243	1	12/12/2005 6:29 PM
m,p-Xylene	BRL	1.0		µg/L	65243	1	12/12/2005 6:29 PM
o-Xylene	BRL	1.0		µg/L	65243	1	12/12/2005 6:29 PM
Naphthalene	BRL	5.0		µg/L	65243	1	12/12/2005 6:29 PM
Surr: 4-Bromofluorobenzene	79.1	63.7-115		%REC	65243	1	12/12/2005 6:29 PM
Surr: Dibromofluoromethane	95.1	70.4-123		%REC	65243	1	12/12/2005 6:29 PM
Surr: Toluene-d8	92.9	73.4-115		%REC	65243	1	12/12/2005 6:29 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *16-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0512376-014

Client Sample ID: TRIPBLANK1
Collection Date: 12/6/2005
Matrix: TRIP BLANK

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	65243	1	12/9/2005 11:21 AM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	65243	1	12/9/2005 11:21 AM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65243	1	12/9/2005 11:21 AM
Isopropyl ether	BRL	5.0	N	µg/L	65243	1	12/9/2005 11:21 AM
tert-Amyl alcohol	BRL	5.0	N	µg/L	65243	1	12/9/2005 11:21 AM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	65243	1	12/9/2005 11:21 AM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	65243	1	12/9/2005 11:21 AM
tert-Butyl formate	BRL	5.0	N	µg/L	65243	1	12/9/2005 11:21 AM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	65243	1	12/9/2005 11:21 AM
Benzene	BRL	1.0		µg/L	65243	1	12/9/2005 11:21 AM
1,2-Dichloroethane	BRL	5.0		µg/L	65243	1	12/9/2005 11:21 AM
Toluene	BRL	1.0		µg/L	65243	1	12/9/2005 11:21 AM
Ethylbenzene	BRL	1.0		µg/L	65243	1	12/9/2005 11:21 AM
m,p-Xylene	BRL	1.0		µg/L	65243	1	12/9/2005 11:21 AM
o-Xylene	BRL	1.0		µg/L	65243	1	12/9/2005 11:21 AM
Naphthalene	BRL	5.0		µg/L	65243	1	12/9/2005 11:21 AM
Surr: 4-Bromofluorobenzene	78.7	63.7-115		%REC	65243	1	12/9/2005 11:21 AM
Surr: Dibromofluoromethane	98.7	70.4-123		%REC	65243	1	12/9/2005 11:21 AM
Surr: Toluene-d8	98.6	73.4-115		%REC	65243	1	12/9/2005 11:21 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *16-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0512376-015

Client Sample ID: TRIP BLANK 2
Collection Date: 12/6/2005
Matrix: TRIP BLANK

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
OXYGENATES BY GC/MS			**SW8260B**		**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	65243	1	12/9/2005 10:56 AM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	65243	1	12/9/2005 10:56 AM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65243	1	12/9/2005 10:56 AM
Isopropyl ether	BRL	5.0	N	µg/L	65243	1	12/9/2005 10:56 AM
tert-Amyl alcohol	BRL	5.0	N	µg/L	65243	1	12/9/2005 10:56 AM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	65243	1	12/9/2005 10:56 AM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	65243	1	12/9/2005 10:56 AM
tert-Butyl formate	BRL	5.0	N	µg/L	65243	1	12/9/2005 10:56 AM
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**SW8260B**		**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	65243	1	12/9/2005 10:56 AM
Benzene	BRL	1.0		µg/L	65243	1	12/9/2005 10:56 AM
1,2-Dichloroethane	BRL	5.0		µg/L	65243	1	12/9/2005 10:56 AM
Toluene	BRL	1.0		µg/L	65243	1	12/9/2005 10:56 AM
Ethylbenzene	BRL	1.0		µg/L	65243	1	12/9/2005 10:56 AM
m,p-Xylene	BRL	1.0		µg/L	65243	1	12/9/2005 10:56 AM
o-Xylene	BRL	1.0		µg/L	65243	1	12/9/2005 10:56 AM
Naphthalene	BRL	5.0		µg/L	65243	1	12/9/2005 10:56 AM
Surr: 4-Bromofluorobenzene	79.1	63.7-115		%REC	65243	1	12/9/2005 10:56 AM
Surr: Dibromofluoromethane	88.4	70.4-123		%REC	65243	1	12/9/2005 10:56 AM
Surr: Toluene-d8	94.6	73.4-115		%REC	65243	1	12/9/2005 10:56 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

16-Dec-05

Lab Order: 0512376
Client: Consultech Environmental, Inc.
Project: Souther's Grocery

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0512376-001A	RW-1	12/6/2005 11:30:00 AM	Groundwater	Oxygenates by GC/MS		12/9/2005	12/9/2005
				Volatile Organic Compounds by GC/MS		12/9/2005	12/9/2005
0512376-001B				MICRO-EXTRACTABLE VOCs		12/12/2005	12/13/2005
				MICRO-EXTRACTABLE VOCs		12/12/2005	12/13/2005
0512376-001C				Total Metals by ICP/MS		12/9/2005	12/13/2005
0512376-002A	PW-1	12/6/2005 11:45:00 AM		Oxygenates by GC/MS		12/9/2005	12/9/2005
				Volatile Organic Compounds by GC/MS		12/9/2005	12/9/2005
0512376-002B				MICRO-EXTRACTABLE VOCs		12/12/2005	12/13/2005
0512376-002C				Total Metals by ICP/MS		12/9/2005	12/13/2005
0512376-003A	PW-2	12/6/2005 11:00:00 AM		Oxygenates by GC/MS		12/9/2005	12/12/2005
				Volatile Organic Compounds by GC/MS		12/9/2005	12/12/2005
0512376-003B				MICRO-EXTRACTABLE VOCs		12/12/2005	12/13/2005
0512376-003C				Total Metals by ICP/MS		12/9/2005	12/13/2005
0512376-004A	MW-12	12/6/2005 1:00:00 PM		Oxygenates by GC/MS		12/9/2005	12/12/2005
				Volatile Organic Compounds by GC/MS		12/9/2005	12/12/2005
0512376-004B				MICRO-EXTRACTABLE VOCs		12/12/2005	12/13/2005
0512376-004C				Total Metals by ICP/MS		12/9/2005	12/13/2005
0512376-005A	MW-16	12/6/2005 12:15:00 PM		Oxygenates by GC/MS		12/9/2005	12/12/2005
				Volatile Organic Compounds by GC/MS		12/9/2005	12/12/2005
0512376-005B				MICRO-EXTRACTABLE VOCs		12/12/2005	12/13/2005
0512376-005C				Total Metals by ICP/MS		12/9/2005	12/13/2005
0512376-006A	MW-23	12/6/2005 12:00:00 PM		Oxygenates by GC/MS		12/9/2005	12/9/2005
				Volatile Organic Compounds by GC/MS		12/9/2005	12/9/2005
0512376-006B				MICRO-EXTRACTABLE VOCs		12/12/2005	12/13/2005
0512376-006C				Total Metals by ICP/MS		12/9/2005	12/13/2005
0512376-007A	MW-24	12/6/2005 12:30:00 PM		Oxygenates by GC/MS		12/9/2005	12/12/2005
				Volatile Organic Compounds by GC/MS		12/9/2005	12/12/2005
0512376-007B				MICRO-EXTRACTABLE VOCs		12/12/2005	12/13/2005

Lab Order: 0512376
Client: Consultech Environmental, Inc.
Project: Souther's Grocery

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0512376-007C	MW-24	12/6/2005 12:30:00 PM	Groundwater	Total Metals by ICP/MS		12/9/2005	12/13/2005
0512376-008A	MW-25	12/6/2005 12:45:00 PM		Oxygenates by GC/MS		12/9/2005	12/12/2005
				Volatile Organic Compounds by GC/MS		12/9/2005	12/12/2005
0512376-008B				MICRO-EXTRACTABLE VOCs		12/12/2005	12/13/2005
0512376-008C				Total Metals by ICP/MS		12/9/2005	12/13/2005
0512376-009A	MW-26	12/7/2005 11:00:00 AM		Oxygenates by GC/MS		12/9/2005	12/12/2005
				Volatile Organic Compounds by GC/MS		12/9/2005	12/12/2005
0512376-009B				GC Analysis of Gaseous Samples		12/14/2005	12/14/2005
0512376-009C				MICRO-EXTRACTABLE VOCs		12/12/2005	12/13/2005
0512376-009D				Total Metals by ICP/MS		12/9/2005	12/13/2005
0512376-009E				Dissolved Metals by ICP/MS		12/8/2005	12/13/2005
0512376-009F				ION SCAN			12/8/2005
				ION SCAN			12/8/2005
0512376-010A	MW-29	12/7/2005 9:30:00 AM		Oxygenates by GC/MS		12/9/2005	12/9/2005
				Oxygenates by GC/MS		12/9/2005	12/12/2005
				Volatile Organic Compounds by GC/MS		12/9/2005	12/9/2005
				Volatile Organic Compounds by GC/MS		12/9/2005	12/12/2005
0512376-010B				GC Analysis of Gaseous Samples		12/14/2005	12/14/2005
0512376-010C				MICRO-EXTRACTABLE VOCs		12/12/2005	12/13/2005
				MICRO-EXTRACTABLE VOCs		12/12/2005	12/13/2005
0512376-010D				Total Metals by ICP/MS		12/9/2005	12/13/2005
0512376-010E				Dissolved Metals by ICP/MS		12/8/2005	12/13/2005
0512376-010F				ION SCAN			12/8/2005
				ION SCAN			12/8/2005
0512376-011A	MW-32	12/7/2005 9:00:00 AM		Oxygenates by GC/MS		12/9/2005	12/9/2005
				Volatile Organic Compounds by GC/MS		12/9/2005	12/9/2005
0512376-011B				GC Analysis of Gaseous Samples		12/14/2005	12/14/2005
0512376-011C				MICRO-EXTRACTABLE VOCs		12/12/2005	12/13/2005

Lab Order: 0512376
Client: Consultech Environmental, Inc.
Project: Souther's Grocery

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0512376-011C	MW-32	12/7/2005 9:00:00 AM	Groundwater	MICRO-EXTRACTABLE VOCs		12/12/2005	12/13/2005
0512376-011D				Total Metals by ICP/MS		12/9/2005	12/13/2005
0512376-011E				Dissolved Metals by ICP/MS		12/8/2005	12/14/2005
				Dissolved Metals by ICP/MS		12/8/2005	12/13/2005
				Dissolved Metals by ICP/MS		12/8/2005	12/14/2005
0512376-011F				ION SCAN			12/8/2005
				ION SCAN			12/8/2005
0512376-012A	MW-15R	12/7/2005 10:00:00 AM		Oxygenates by GC/MS		12/9/2005	12/12/2005
				Volatile Organic Compounds by GC/MS		12/9/2005	12/12/2005
0512376-012B				GC Analysis of Gaseous Samples		12/14/2005	12/14/2005
0512376-012C				MICRO-EXTRACTABLE VOCs		12/12/2005	12/13/2005
0512376-012D				Total Metals by ICP/MS		12/9/2005	12/13/2005
0512376-012E				Dissolved Metals by ICP/MS		12/8/2005	12/13/2005
0512376-012F				ION SCAN			12/8/2005
				ION SCAN			12/8/2005
0512376-013A	MW-14R	12/7/2005 12:00:00 PM		Oxygenates by GC/MS		12/9/2005	12/12/2005
				Volatile Organic Compounds by GC/MS		12/9/2005	12/12/2005
0512376-013B				GC Analysis of Gaseous Samples		12/14/2005	12/14/2005
0512376-013C				MICRO-EXTRACTABLE VOCs		12/12/2005	12/13/2005
0512376-013D				Total Metals by ICP/MS		12/9/2005	12/13/2005
0512376-013E				Dissolved Metals by ICP/MS		12/8/2005	12/14/2005
				Dissolved Metals by ICP/MS		12/8/2005	12/13/2005
				Dissolved Metals by ICP/MS		12/8/2005	12/14/2005
0512376-013F				ION SCAN			12/8/2005
				ION SCAN			12/8/2005
0512376-014A	TRIPBLANK1	12/6/2005	Trip Blank	Oxygenates by GC/MS		12/9/2005	12/9/2005
				Volatile Organic Compounds by GC/MS		12/9/2005	12/9/2005
0512376-015A	TRIP BLANK 2			Oxygenates by GC/MS		12/9/2005	12/9/2005

Analytical Environmental Services, Inc.

16-Dec-05

Lab Order: 0512376
Client: Consultech Environmental, Inc.
Project: Souther's Grocery

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0512376-015A	TRIP BLANK 2	12/6/2005	Trip Blank	Volatile Organic Compounds by GC/MS		12/9/2005	12/9/2005

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W

Sample ID: **MB-65221** SampType: **MBLK** TestCode: **6020_W** Units: **µg/L** Prep Date: **12/9/2005** RunNo: **76179**
Client ID: Batch ID: **65221** TestNo: **SW6020** Analysis Date: **12/13/2005** SeqNo: **1506942**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	BRL	1.00									

Sample ID: **LCS-65221** SampType: **LCS** TestCode: **6020_W** Units: **µg/L** Prep Date: **12/9/2005** RunNo: **76179**
Client ID: Batch ID: **65221** TestNo: **SW6020** Analysis Date: **12/13/2005** SeqNo: **1506941**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	104.2	1.00	100	0	104	85	115	0	0		

Sample ID: **0512307-005AMS** SampType: **MS** TestCode: **6020_W** Units: **µg/L** Prep Date: **12/9/2005** RunNo: **76179**
Client ID: Batch ID: **65221** TestNo: **SW6020** Analysis Date: **12/13/2005** SeqNo: **1506945**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	109.5	1.00	100	5.922	104	70	130	0	0		

Sample ID: **0512307-005AMSD** SampType: **MSD** TestCode: **6020_W** Units: **µg/L** Prep Date: **12/9/2005** RunNo: **76179**
Client ID: Batch ID: **65221** TestNo: **SW6020** Analysis Date: **12/13/2005** SeqNo: **1506947**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	112.7	1.00	100	5.922	107	70	130	109.5	2.88	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W_D

Sample ID: **MB-65198** SampType: **MBLK** TestCode: **6020_W_D** Units: **µg/L** Prep Date: **12/8/2005** RunNo: **76196**
Client ID: Batch ID: **65198** TestNo: **SW6020** Analysis Date: **12/13/2005** SeqNo: **1507278**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	BRL	100									

Sample ID: **LCS-65198** SampType: **LCS** TestCode: **6020_W_D** Units: **µg/L** Prep Date: **12/8/2005** RunNo: **76196**
Client ID: Batch ID: **65198** TestNo: **SW6020** Analysis Date: **12/13/2005** SeqNo: **1507277**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	1098	100	1000	38.03	106	85	115	0	0		

Sample ID: **0512376-009EMS** SampType: **MS** TestCode: **6020_W_D** Units: **µg/L** Prep Date: **12/8/2005** RunNo: **76196**
Client ID: **MW-26** Batch ID: **65198** TestNo: **SW6020** Analysis Date: **12/13/2005** SeqNo: **1507280**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	1098	100	1000	58.13	104	70	130	0	0		

Sample ID: **0512376-009EMSD** SampType: **MSD** TestCode: **6020_W_D** Units: **µg/L** Prep Date: **12/8/2005** RunNo: **76196**
Client ID: **MW-26** Batch ID: **65198** TestNo: **SW6020** Analysis Date: **12/13/2005** SeqNo: **1507283**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	1112	100	1000	58.13	105	70	130	1098	1.27	20	

Qualifiers:
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- BRL Below Reporting Limit
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8011_W

Sample ID: **MB-65318** SampType: **MBLK** TestCode: **8011_W** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76121**
Client ID: Batch ID: **65318** TestNo: **SW8011** Analysis Date: **12/12/2005** SeqNo: **1505854**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	BRL	0.0200									
Surr: 4-Bromofluorobenzene	2.129	0.0500	5	0	42.6	39.4	142	0	0		

Sample ID: **MB-65319** SampType: **MBLK** TestCode: **8011_W** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76121**
Client ID: Batch ID: **65319** TestNo: **SW8011** Analysis Date: **12/13/2005** SeqNo: **1505915**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	BRL	0.0200									
Surr: 4-Bromofluorobenzene	2.123	0.0500	5	0	42.5	39.4	142	0	0		

Sample ID: **LCS-65318** SampType: **LCS** TestCode: **8011_W** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76121**
Client ID: Batch ID: **65318** TestNo: **SW8011** Analysis Date: **12/12/2005** SeqNo: **1505856**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.06	0.0200	0.1	0	60	55.1	139	0	0		
Surr: 4-Bromofluorobenzene	2.028	0.0500	5	0	40.6	39.4	142	0	0		

Sample ID: **LCS-65319** SampType: **LCS** TestCode: **8011_W** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76121**
Client ID: Batch ID: **65319** TestNo: **SW8011** Analysis Date: **12/13/2005** SeqNo: **1505917**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.058	0.0200	0.1	0	58	55.1	139	0	0		
Surr: 4-Bromofluorobenzene	2.031	0.0500	5	0	40.6	39.4	142	0	0		

Sample ID: **LCSD-65318** SampType: **LCSD** TestCode: **8011_W** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76121**
Client ID: Batch ID: **65318** TestNo: **SW8011** Analysis Date: **12/12/2005** SeqNo: **1505857**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.059	0.0200	0.1	0	59	55.1	139	0.06	1.68	18.5	
Surr: 4-Bromofluorobenzene	2.002	0.0500	5	0	40	39.4	142	2.028	0	0	

Qualifiers:
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- BRL Below Reporting Limit
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8011_W

Sample ID: **LCSD-65319** SampType: **LCSD** TestCode: **8011_W** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76121**
Client ID: Batch ID: **65319** TestNo: **SW8011** Analysis Date: **12/13/2005** SeqNo: **1505919**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.061	0.0200	0.1	0	61	55.1	139	0.058	5.04	18.5	
Surr: 4-Bromofluorobenzene	2.456	0.0500	5	0	49.1	39.4	142	2.031	0	0	

Sample ID: **0512353-001BMS** SampType: **MS** TestCode: **8011_W** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76121**
Client ID: Batch ID: **65318** TestNo: **SW8011** Analysis Date: **12/12/2005** SeqNo: **1505859**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.139	0.0200	0.1	0	139	40.7	148	0	0		
Surr: 4-Bromofluorobenzene	2.153	0.0500	5	0	43.1	39.4	142	0	0		

Sample ID: **0512520-002BMS** SampType: **MS** TestCode: **8011_W** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76121**
Client ID: Batch ID: **65319** TestNo: **SW8011** Analysis Date: **12/13/2005** SeqNo: **1505926**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.058	0.0200	0.1	0	58	40.7	148	0	0		
Surr: 4-Bromofluorobenzene	2.41	0.0500	5	0	48.2	39.4	142	0	0		

Qualifiers:
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- BRL Below Reporting Limit
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_OXY_W

Sample ID: **MB-65243** SampType: **MBLK** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **12/9/2005** RunNo: **76066**
Client ID: Batch ID: **65243** TestNo: **SW8260B** Analysis Date: **12/9/2005** SeqNo: **1504854**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	BRL	25									
Ethyl tert-butyl alcohol	BRL	5.0									
Ethyl tert-butyl ether	BRL	5.0									
Isopropyl ether	BRL	5.0									
tert-Amyl alcohol	BRL	5.0									
tert-Amyl methyl ether	BRL	5.0									
tert-Butyl Alcohol	BRL	5.0									
tert-Butyl formate	BRL	5.0									

Sample ID: **MB-65359** SampType: **MBLK** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76161**
Client ID: Batch ID: **65359** TestNo: **SW8260B** Analysis Date: **12/12/2005** SeqNo: **1506775**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	BRL	25	0	0	0	0	0	0	0		
Ethyl tert-butyl alcohol	BRL	5.0	0	0	0	0	0	0	0		
Ethyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0		
Isopropyl ether	BRL	5.0	0	0	0	0	0	0	0		
tert-Amyl alcohol	BRL	5.0	0	0	0	0	0	0	0		
tert-Amyl methyl ether	BRL	5.0	0	0	0	0	0	0	0		
tert-Butyl Alcohol	BRL	5.0	0	0	0	0	0	0	0		
tert-Butyl formate	BRL	5.0	0	0	0	0	0	0	0		

Sample ID: **MB-65359** SampType: **MBLK** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76200**
Client ID: Batch ID: **65359** TestNo: **SW8260B** Analysis Date: **12/13/2005** SeqNo: **1507498**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethyl tert-butyl ether	BRL	5.0									
Isopropyl ether	BRL	5.0									
tert-Amyl methyl ether	BRL	5.0									
tert-Butyl Alcohol	BRL	5.0									

Qualifiers:
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- BRL Below Reporting Limit
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_OXY_W

Sample ID: **LCS-65243** SampType: **LCS** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **12/9/2005** RunNo: **76066**
Client ID: Batch ID: **65243** TestNo: **SW8260B** Analysis Date: **12/9/2005** SeqNo: **1504856**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	199.4	25	250	0	79.8	50	150	0	0		
Ethyl tert-butyl alcohol	225.5	5.0	250	0	90.2	50	150	0	0		
Ethyl tert-butyl ether	55.56	5.0	50	0	111	50	150	0	0		
Isopropyl ether	55.69	5.0	50	0	111	50	150	0	0		
tert-Amyl alcohol	256.7	5.0	250	0	103	50	150	0	0		
tert-Amyl methyl ether	56.21	5.0	50	0	112	50	150	0	0		
tert-Butyl Alcohol	213.9	5.0	250	0	85.6	50	150	0	0		
tert-Butyl formate	293.2	5.0	250	0	117	50	150	0	0		

Sample ID: **LCS-65359** SampType: **LCS** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76161**
Client ID: Batch ID: **65359** TestNo: **SW8260B** Analysis Date: **12/12/2005** SeqNo: **1506776**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	156.8	25	250	0	62.7	50	150	0	0		
Ethyl tert-butyl alcohol	226	5.0	250	0	90.4	50	150	0	0		
Ethyl tert-butyl ether	63.05	5.0	50	0	126	50	150	0	0		
Isopropyl ether	59.25	5.0	50	0	118	50	150	0	0		
tert-Amyl alcohol	234.4	5.0	250	0	93.8	50	150	0	0		
tert-Amyl methyl ether	60.04	5.0	50	0	120	50	150	0	0		
tert-Butyl Alcohol	229.2	5.0	250	0	91.7	50	150	0	0		
tert-Butyl formate	292.6	5.0	250	0	117	50	150	0	0		

Sample ID: **LCS-65359** SampType: **LCS** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76200**
Client ID: Batch ID: **65359** TestNo: **SW8260B** Analysis Date: **12/13/2005** SeqNo: **1507500**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethyl tert-butyl ether	62.12	5.0	50	0	124	50	150	0	0		
Isopropyl ether	61.15	5.0	50	0	122	50	150	0	0		
tert-Amyl methyl ether	57.54	5.0	50	0	115	50	150	0	0		
tert-Butyl Alcohol	281.5	5.0	250	0	113	50	150	0	0		

Qualifiers:
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- BRL Below Reporting Limit
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_OXY_W

Sample ID: **0512376-006AMS** SampType: **MS** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **12/9/2005** RunNo: **76066**
Client ID: **MW-23** Batch ID: **65243** TestNo: **SW8260B** Analysis Date: **12/9/2005** SeqNo: **1504879**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	332.4	25	250	0	133	50	150	0	0		
Ethyl tert-butyl alcohol	247.9	5.0	250	0	99.1	50	150	0	0		
Ethyl tert-butyl ether	65.27	5.0	50	0	131	50	150	0	0		
Isopropyl ether	64.28	5.0	50	0	129	50	150	0	0		
tert-Amyl alcohol	340.8	5.0	250	0	136	50	150	0	0		
tert-Amyl methyl ether	63.92	5.0	50	0	128	50	150	0	0		
tert-Butyl Alcohol	451.1	5.0	250	0	180	50	150	0	0		S
tert-Butyl formate	5.96	5.0	250	0	2.38	50	150	0	0		S

Sample ID: **0512616-001AMS** SampType: **MS** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76200**
Client ID: Batch ID: **65359** TestNo: **SW8260B** Analysis Date: **12/13/2005** SeqNo: **1507505**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethyl tert-butyl ether	61.82	5.0	50	0	124	50	150	0	0		
Isopropyl ether	60.16	5.0	50	0	120	50	150	0	0		
tert-Amyl methyl ether	59.2	5.0	50	0	118	50	150	0	0		
tert-Butyl Alcohol	232.4	5.0	250	0	93	50	150	0	0		

Sample ID: **0512376-006AMSD** SampType: **MSD** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **12/9/2005** RunNo: **76066**
Client ID: **MW-23** Batch ID: **65243** TestNo: **SW8260B** Analysis Date: **12/9/2005** SeqNo: **1504880**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	156.4	25	250	0	62.6	50	150	332.4	72.0	40	R
Ethyl tert-butyl alcohol	258.3	5.0	250	0	103	50	150	247.9	4.14	40	
Ethyl tert-butyl ether	64.01	5.0	50	0	128	50	150	65.27	1.95	40	
Isopropyl ether	63.86	5.0	50	0	128	50	150	64.28	0.656	40	
tert-Amyl alcohol	312.6	5.0	250	0	125	50	150	340.8	8.64	40	
tert-Amyl methyl ether	62.44	5.0	50	0	125	50	150	63.92	2.34	40	
tert-Butyl Alcohol	432.2	5.0	250	0	173	50	150	451.1	4.27	40	S
tert-Butyl formate	5.66	5.0	250	0	2.26	50	150	5.96	5.16	40	S

Qualifiers:
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- BRL Below Reporting Limit
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_OXY_W

Sample ID: **0512616-001AMSD** SampType: **MSD** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76200**
Client ID: Batch ID: **65359** TestNo: **SW8260B** Analysis Date: **12/13/2005** SeqNo: **1507506**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethyl tert-butyl ether	64.17	5.0	50	0	128	50	150	61.82	3.73	40	
Isopropyl ether	61.33	5.0	50	0	123	50	150	60.16	1.93	40	
tert-Amyl methyl ether	58.33	5.0	50	0	117	50	150	59.2	1.48	40	
tert-Butyl Alcohol	271.8	5.0	250	0	109	50	150	232.4	15.6	40	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID: **MB-65243** SampType: **MBLK** TestCode: **8260B_W** Units: **µg/L** Prep Date: **12/9/2005** RunNo: **76066**
Client ID: Batch ID: **65243** TestNo: **SW8260B** Analysis Date: **12/9/2005** SeqNo: **1504485**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	BRL	5.0									
Benzene	BRL	5.0									
Ethylbenzene	BRL	5.0									
m,p-Xylene	BRL	10									
Methyl tert-butyl ether	BRL	5.0									
Naphthalene	BRL	5.0									
o-Xylene	BRL	5.0									
Toluene	BRL	5.0									
Surr: 4-Bromofluorobenzene	36.48	5.0	50	0	73	63.7	115	0	0		
Surr: Dibromofluoromethane	45.25	5.0	50	0	90.5	70.4	123	0	0		
Surr: Toluene-d8	45.28	5.0	50	0	90.6	73.4	115	0	0		

Sample ID: **MB-65359** SampType: **MBLK** TestCode: **8260B_W** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76161**
Client ID: Batch ID: **65359** TestNo: **SW8260B** Analysis Date: **12/12/2005** SeqNo: **1506599**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0		
1,1,1-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0		
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0		
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0		
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0		
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0		
1,1-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0		
1,2,3-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0		
1,2,3-Trichloropropane	BRL	5.0	0	0	0	0	0	0	0		
1,2,4-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0		
1,2,4-Trimethylbenzene	BRL	5.0	0	0	0	0	0	0	0		
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0		
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0		
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0		

Qualifiers:
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- BRL Below Reporting Limit
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID: **MB-65359** SampType: **MBLK** TestCode: **8260B_W** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76161**
Client ID: Batch ID: **65359** TestNo: **SW8260B** Analysis Date: **12/12/2005** SeqNo: **1506599**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0		
1,2-Dichloroethene, Total	BRL	5.0	0	0	0	0	0	0	0		
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0		
1,3,5-Trimethylbenzene	BRL	5.0	0	0	0	0	0	0	0		
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0		
1,3-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0		
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0		
2,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0		
2-Butanone	BRL	50	0	0	0	0	0	0	0		
2-Chloroethyl vinyl ether	BRL	5.0	0	0	0	0	0	0	0		
2-Chlorotoluene	BRL	5.0	0	0	0	0	0	0	0		
2-Hexanone	BRL	10	0	0	0	0	0	0	0		
4-Chlorotoluene	BRL	5.0	0	0	0	0	0	0	0		
4-Isopropyltoluene	BRL	5.0	0	0	0	0	0	0	0		
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0		
Acetone	BRL	50	0	0	0	0	0	0	0		
Acrolein	BRL	20	0	0	0	0	0	0	0		
Acrylonitrile	BRL	5.0	0	0	0	0	0	0	0		
Benzene	BRL	5.0	0	0	0	0	0	0	0		
Bromobenzene	BRL	5.0	0	0	0	0	0	0	0		
Bromochloromethane	BRL	5.0	0	0	0	0	0	0	0		
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0		
Bromoform	BRL	5.0	0	0	0	0	0	0	0		
Bromomethane	BRL	5.0	0	0	0	0	0	0	0		
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0		
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0		
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0		
Chloroethane	BRL	10	0	0	0	0	0	0	0		
Chloroform	BRL	5.0	0	0	0	0	0	0	0		
Chloromethane	BRL	10	0	0	0	0	0	0	0		
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0		

Qualifiers:
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID: **MB-65359** SampType: **MBLK** TestCode: **8260B_W** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76161**
Client ID: Batch ID: **65359** TestNo: **SW8260B** Analysis Date: **12/12/2005** SeqNo: **1506599**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0		
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0		
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0		
Dibromomethane	BRL	5.0	0	0	0	0	0	0	0		
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0		
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0		
Freon-113	BRL	10	0	0	0	0	0	0	0		
Hexachlorobutadiene	BRL	5.0	0	0	0	0	0	0	0		
Iodomethane	BRL	10	0	0	0	0	0	0	0		
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0		
m,p-Xylene	BRL	10	0	0	0	0	0	0	0		
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0		
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0		
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0		
Naphthalene	BRL	5.0	0	0	0	0	0	0	0		
n-Butylbenzene	BRL	5.0	0	0	0	0	0	0	0		
n-Propylbenzene	BRL	5.0	0	0	0	0	0	0	0		
o-Xylene	BRL	5.0	0	0	0	0	0	0	0		
sec-Butylbenzene	BRL	5.0	0	0	0	0	0	0	0		
Styrene	BRL	5.0	0	0	0	0	0	0	0		
tert-Butylbenzene	BRL	5.0	0	0	0	0	0	0	0		
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0		
Toluene	BRL	5.0	0	0	0	0	0	0	0		
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0		
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0		
trans-1,4-Dichloro-2-butene	BRL	10	0	0	0	0	0	0	0		
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0		
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0		
Vinyl acetate	BRL	10	0	0	0	0	0	0	0		
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0		
Xylenes, Total	BRL	5.0	0	0	0	0	0	0	0		

Qualifiers:
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- BRL Below Reporting Limit
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID: **MB-65359** SampType: **MBLK** TestCode: **8260B_W** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76161**
Client ID: Batch ID: **65359** TestNo: **SW8260B** Analysis Date: **12/12/2005** SeqNo: **1506599**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	38.21	5.0	50	0	76.4	63.7	115	0	0		
Surr: Dibromofluoromethane	45.46	5.0	50	0	90.9	70.4	123	0	0		
Surr: Toluene-d8	47.12	5.0	50	0	94.2	73.4	115	0	0		

Sample ID: **MB-65359** SampType: **MBLK** TestCode: **8260B_W** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76200**
Client ID: Batch ID: **65359** TestNo: **SW8260B** Analysis Date: **12/13/2005** SeqNo: **1507378**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	BRL	5.0									
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,1-Dichloropropene	BRL	5.0									
1,2,3-Trichlorobenzene	BRL	5.0									
1,2,3-Trichloropropane	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2,4-Trimethylbenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloroethene, Total	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3,5-Trimethylbenzene	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,3-Dichloropropane	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2,2-Dichloropropane	BRL	5.0									

Qualifiers:
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- BRL Below Reporting Limit
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID: MB-65359	SampType: MBLK	TestCode: 8260B_W	Units: µg/L	Prep Date: 12/12/2005	RunNo: 76200
Client ID:	Batch ID: 65359	TestNo: SW8260B		Analysis Date: 12/13/2005	SeqNo: 1507378

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Butanone	BRL	50									
2-Chloroethyl vinyl ether	BRL	5.0									
2-Chlorotoluene	BRL	5.0									
2-Hexanone	BRL	10									
4-Chlorotoluene	BRL	5.0									
4-Isopropyltoluene	BRL	5.0									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Acrolein	BRL	20									
Acrylonitrile	BRL	5.0									
Benzene	BRL	5.0									
Bromobenzene	BRL	5.0									
Bromochloromethane	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dibromomethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Hexachlorobutadiene	BRL	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID: **MB-65359** SampType: **MBLK** TestCode: **8260B_W** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76200**
Client ID: Batch ID: **65359** TestNo: **SW8260B** Analysis Date: **12/13/2005** SeqNo: **1507378**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iodomethane	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	10									
Methyl acetate	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
Naphthalene	BRL	5.0									
n-Butylbenzene	BRL	5.0									
n-Propylbenzene	BRL	5.0									
o-Xylene	BRL	5.0									
sec-Butylbenzene	BRL	5.0									
Styrene	BRL	5.0									
tert-Butylbenzene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
trans-1,4-Dichloro-2-butene	BRL	10									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl acetate	BRL	10									
Vinyl chloride	BRL	2.0									
Xylenes, Total	BRL	5.0									
Surr: 4-Bromofluorobenzene	37.68	5.0	50	0	75.4	63.7	115	0	0		
Surr: Dibromofluoromethane	46.11	5.0	50	0	92.2	70.4	123	0	0		
Surr: Toluene-d8	46.86	5.0	50	0	93.7	73.4	115	0	0		

Qualifiers:
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- BRL Below Reporting Limit
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID: **MB-65359**	SampType: **MBLK**	TestCode: **8260B_W**	Units: **µg/L**	Prep Date: **12/12/2005**	RunNo: **76303**
Client ID:	Batch ID: **65359**	TestNo: **SW8260B**		Analysis Date: **12/14/2005**	SeqNo: **1509694**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	BRL	5.0									
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,1-Dichloropropene	BRL	5.0									
1,2,3-Trichlorobenzene	BRL	5.0									
1,2,3-Trichloropropane	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2,4-Trimethylbenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloroethene, Total	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3,5-Trimethylbenzene	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,3-Dichloropropane	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2,2-Dichloropropane	BRL	5.0									
2-Butanone	BRL	50									
2-Chloroethyl vinyl ether	BRL	5.0									
2-Chlorotoluene	BRL	5.0									
2-Hexanone	BRL	10									
4-Chlorotoluene	BRL	5.0									
4-Isopropyltoluene	BRL	5.0									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Acrolein	BRL	20									

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID: **MB-65359** SampType: **MBLK** TestCode: **8260B_W** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76303**
Client ID: Batch ID: **65359** TestNo: **SW8260B** Analysis Date: **12/14/2005** SeqNo: **1509694**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acrylonitrile	BRL	5.0									
Benzene	BRL	5.0									
Bromobenzene	BRL	5.0									
Bromochloromethane	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dibromomethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Hexachlorobutadiene	BRL	5.0									
Iodomethane	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	10									
Methyl acetate	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
Naphthalene	BRL	5.0									
n-Butylbenzene	BRL	5.0									
n-Propylbenzene	BRL	5.0									

Qualifiers:
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID: **MB-65359** SampType: **MBLK** TestCode: **8260B_W** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76303**
Client ID: Batch ID: **65359** TestNo: **SW8260B** Analysis Date: **12/14/2005** SeqNo: **1509694**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	BRL	5.0									
sec-Butylbenzene	BRL	5.0									
Styrene	BRL	5.0									
tert-Butylbenzene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
trans-1,4-Dichloro-2-butene	BRL	10									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl acetate	BRL	10									
Vinyl chloride	BRL	2.0									
Xylenes, Total	BRL	5.0									
Surr: 4-Bromofluorobenzene	41.82	5.0	50	0	83.6	63.7	115	0	0		
Surr: Dibromofluoromethane	43.79	5.0	50	0	87.6	70.4	123	0	0		
Surr: Toluene-d8	44.37	5.0	50	0	88.7	73.4	115	0	0		

Sample ID: **LCS-65243** SampType: **LCS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **12/9/2005** RunNo: **76066**
Client ID: Batch ID: **65243** TestNo: **SW8260B** Analysis Date: **12/9/2005** SeqNo: **1504489**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	51.94	5.0	50	0	104	77.4	127	0	0		
Toluene	53.97	5.0	50	0	108	79.6	127	0	0		
Surr: 4-Bromofluorobenzene	39.72	5.0	50	0	79.4	63.7	115	0	0		
Surr: Dibromofluoromethane	40.78	5.0	50	0	81.6	70.4	123	0	0		
Surr: Toluene-d8	46.84	5.0	50	0	93.7	73.4	115	0	0		

Qualifiers:
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID: **LCS-65359** SampType: **LCS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76161**
Client ID: Batch ID: **65359** TestNo: **SW8260B** Analysis Date: **12/12/2005** SeqNo: **1506741**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	44.01	5.0	50	0	88	65.4	159	0	0		
Benzene	47.5	5.0	50	0	95	77.4	127	0	0		
Chlorobenzene	49.59	5.0	50	0	99.2	79.9	124	0	0		
Toluene	49.55	5.0	50	0	99.1	79.6	127	0	0		
Trichloroethene	48.68	5.0	50	0	97.4	73.2	134	0	0		
Surr: 4-Bromofluorobenzene	39.28	5.0	50	0	78.6	63.7	115	0	0		
Surr: Dibromofluoromethane	43.63	5.0	50	0	87.3	70.4	123	0	0		
Surr: Toluene-d8	48.22	5.0	50	0	96.4	73.4	115	0	0		

Sample ID: **LCS-65359** SampType: **LCS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76200**
Client ID: Batch ID: **65359** TestNo: **SW8260B** Analysis Date: **12/13/2005** SeqNo: **1507380**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	44.11	5.0	50	0	88.2	65.4	159	0	0		
Benzene	51.79	5.0	50	0	104	77.4	127	0	0		
Chlorobenzene	57.14	5.0	50	0	114	79.9	124	0	0		
Toluene	56.93	5.0	50	0	114	79.6	127	0	0		
Trichloroethene	55.6	5.0	50	0	111	73.2	134	0	0		
Surr: 4-Bromofluorobenzene	39.21	5.0	50	0	78.4	63.7	115	0	0		
Surr: Dibromofluoromethane	43.33	5.0	50	0	86.7	70.4	123	0	0		
Surr: Toluene-d8	48.31	5.0	50	0	96.6	73.4	115	0	0		

Sample ID: **0512376-006AMS** SampType: **MS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **12/9/2005** RunNo: **76066**
Client ID: **MW-23** Batch ID: **65243** TestNo: **SW8260B** Analysis Date: **12/9/2005** SeqNo: **1504525**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	51.69	5.0	50	0	103	72.6	130	0	0		
Toluene	54.31	5.0	50	0	109	74.7	129	0	0		
Surr: 4-Bromofluorobenzene	40.14	5.0	50	0	80.3	63.7	115	0	0		
Surr: Dibromofluoromethane	41.75	5.0	50	0	83.5	70.4	123	0	0		

Qualifiers:
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID: **0512376-006AMS** SampType: **MS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **12/9/2005** RunNo: **76066**
Client ID: **MW-23** Batch ID: **65243** TestNo: **SW8260B** Analysis Date: **12/9/2005** SeqNo: **1504525**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	46.97	5.0	50	0	93.9	73.4	115	0	0		

Sample ID: **0512616-001AMS** SampType: **MS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76200**
Client ID: Batch ID: **65359** TestNo: **SW8260B** Analysis Date: **12/13/2005** SeqNo: **1507539**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	43.22	5.0	50	0	86.4	58.9	163	0	0		
Benzene	53.22	5.0	50	0	106	72.6	130	0	0		
Chlorobenzene	59.56	5.0	50	0	119	75.8	126	0	0		
Toluene	58.71	5.0	50	0	117	74.7	129	0	0		
Trichloroethene	58.46	5.0	50	0	117	70	134	0	0		
Surr: 4-Bromofluorobenzene	41.71	5.0	50	0	83.4	63.7	115	0	0		
Surr: Dibromofluoromethane	43.63	5.0	50	0	87.3	70.4	123	0	0		
Surr: Toluene-d8	47.67	5.0	50	0	95.3	73.4	115	0	0		

Sample ID: **0512376-006AMSD** SampType: **MSD** TestCode: **8260B_W** Units: **µg/L** Prep Date: **12/9/2005** RunNo: **76066**
Client ID: **MW-23** Batch ID: **65243** TestNo: **SW8260B** Analysis Date: **12/9/2005** SeqNo: **1504528**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	51.72	5.0	50	0	103	72.6	130	51.69	0.0580	10	
Toluene	55.59	5.0	50	0	111	74.7	129	54.31	2.33	10	
Surr: 4-Bromofluorobenzene	39.92	5.0	50	0	79.8	63.7	115	40.14	0	0	
Surr: Dibromofluoromethane	41.74	5.0	50	0	83.5	70.4	123	41.75	0	0	
Surr: Toluene-d8	47.25	5.0	50	0	94.5	73.4	115	46.97	0	0	

Sample ID: **0512616-001AMSD** SampType: **MSD** TestCode: **8260B_W** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76200**
Client ID: Batch ID: **65359** TestNo: **SW8260B** Analysis Date: **12/13/2005** SeqNo: **1507540**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	45.62	5.0	50	0	91.2	58.9	163	43.22	5.40	15.8	

Qualifiers:
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID: **0512616-001AMSD** SampType: **MSD** TestCode: **8260B_W** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76200**
Client ID: Batch ID: **65359** TestNo: **SW8260B** Analysis Date: **12/13/2005** SeqNo: **1507540**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	52.18	5.0	50	0	104	72.6	130	53.22	1.97	10	
Chlorobenzene	59.13	5.0	50	0	118	75.8	126	59.56	0.725	10	
Toluene	58.37	5.0	50	0	117	74.7	129	58.71	0.581	10	
Trichloroethene	54.6	5.0	50	0	109	70	134	58.46	6.83	11	
Surr: 4-Bromofluorobenzene	40.58	5.0	50	0	81.2	63.7	115	41.71	0	0	
Surr: Dibromofluoromethane	42.48	5.0	50	0	85	70.4	123	43.63	0	0	
Surr: Toluene-d8	47.93	5.0	50	0	95.9	73.4	115	47.67	0	0	

Qualifiers:
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- BRL Below Reporting Limit
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 9056_NO2NO3_W

Sample ID: **MB-R75994** SampType: **MBLK** TestCode: **9056_NO2NO** Units: **mg/L** Prep Date: RunNo: **75994**
Client ID: Batch ID: **R75994** TestNo: **SW9056** Analysis Date: **12/8/2005** SeqNo: **1502996**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate	BRL	0.25									

Sample ID: **LCS-R75994** SampType: **LCS** TestCode: **9056_NO2NO** Units: **mg/L** Prep Date: RunNo: **75994**
Client ID: Batch ID: **R75994** TestNo: **SW9056** Analysis Date: **12/8/2005** SeqNo: **1502995**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate	4.903	0.25	5	0	98.1	90	110	0	0		

Sample ID: **0512376-009FMS** SampType: **MS** TestCode: **9056_NO2NO** Units: **mg/L** Prep Date: RunNo: **75994**
Client ID: **MW-26** Batch ID: **R75994** TestNo: **SW9056** Analysis Date: **12/8/2005** SeqNo: **1503008**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate	5.436	0.25	5	0.2518	104	90	110	0	0		

Sample ID: **0512397-007C MS** SampType: **MS** TestCode: **9056_NO2NO** Units: **mg/L** Prep Date: RunNo: **75994**
Client ID: Batch ID: **R75994** TestNo: **SW9056** Analysis Date: **12/8/2005** SeqNo: **1503016**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate	5.161	0.25	5	0	103	90	110	0	0		H

Sample ID: **0512376-009FMSD** SampType: **MSD** TestCode: **9056_NO2NO** Units: **mg/L** Prep Date: RunNo: **75994**
Client ID: **MW-26** Batch ID: **R75994** TestNo: **SW9056** Analysis Date: **12/8/2005** SeqNo: **1503009**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate	5.452	0.25	5	0.2518	104	90	110	5.436	0.286	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 9056_W

Sample ID: **MB-R75996** SampType: **MBLK** TestCode: **9056_W** Units: **mg/L** Prep Date: RunNo: **75996**
Client ID: Batch ID: **R75996** TestNo: **SW9056** Analysis Date: **12/8/2005** SeqNo: **1503029**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	BRL	1.0									

Sample ID: **LCS-R75996** SampType: **LCS** TestCode: **9056_W** Units: **mg/L** Prep Date: RunNo: **75996**
Client ID: Batch ID: **R75996** TestNo: **SW9056** Analysis Date: **12/8/2005** SeqNo: **1503028**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	24.54	1.0	25	0	98.1	90	110	0	0		

Sample ID: **0512376-009FMS** SampType: **MS** TestCode: **9056_W** Units: **mg/L** Prep Date: RunNo: **75996**
Client ID: **MW-26** Batch ID: **R75996** TestNo: **SW9056** Analysis Date: **12/8/2005** SeqNo: **1503039**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	49.43	1.0	25	26.26	92.7	90	110	0	0		

Sample ID: **0512397-007C MS** SampType: **MS** TestCode: **9056_W** Units: **mg/L** Prep Date: RunNo: **75996**
Client ID: Batch ID: **R75996** TestNo: **SW9056** Analysis Date: **12/8/2005** SeqNo: **1503045**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	24.02	1.0	25	0.7113	93.3	90	110	0	0		

Sample ID: **0512376-009FMSD** SampType: **MSD** TestCode: **9056_W** Units: **mg/L** Prep Date: RunNo: **75996**
Client ID: **MW-26** Batch ID: **R75996** TestNo: **SW9056** Analysis Date: **12/8/2005** SeqNo: **1503040**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	49.41	1.0	25	26.26	92.6	90	110	49.43	0.0536	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: RSKSOP-175

Sample ID: **MB-65425** SampType: **MBLK** TestCode: **RSKSOP-175** Units: **µg/L** Prep Date: **12/14/2005** RunNo: **76259**
Client ID: Batch ID: **65425** TestNo: **SOP-RSK 17** Analysis Date: **12/14/2005** SeqNo: **1508426**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	BRL	4.0									

Sample ID: **LCS-65425** SampType: **LCS** TestCode: **RSKSOP-175** Units: **µg/L** Prep Date: **12/14/2005** RunNo: **76259**
Client ID: Batch ID: **65425** TestNo: **SOP-RSK 17** Analysis Date: **12/14/2005** SeqNo: **1508429**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	129.5	4.0	200	0	64.7	43.7	115	0	0		

Sample ID: **LCSD-65425** SampType: **LCSD** TestCode: **RSKSOP-175** Units: **µg/L** Prep Date: **12/14/2005** RunNo: **76259**
Client ID: Batch ID: **65425** TestNo: **SOP-RSK 17** Analysis Date: **12/14/2005** SeqNo: **1508432**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	132.9	4.0	200	0	66.5	43.7	115	129.5	2.64	19.5	

Sample ID: **0512376-009BMS** SampType: **MS** TestCode: **RSKSOP-175** Units: **µg/L** Prep Date: **12/14/2005** RunNo: **76259**
Client ID: **MW-26** Batch ID: **65425** TestNo: **SOP-RSK 17** Analysis Date: **12/14/2005** SeqNo: **1508936**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	141.6	4.0	200	0	70.8	26.7	123	0	0		

Sample ID: **0512467-005BMS** SampType: **MS** TestCode: **RSKSOP-175** Units: **µg/L** Prep Date: **12/14/2005** RunNo: **76293**
Client ID: Batch ID: **65425** TestNo: **SOP-RSK 17** Analysis Date: **12/15/2005** SeqNo: **1509208**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	127.6	4.0	200	0	63.8	26.7	123	0	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: RSKSOP-175

Sample ID: **0512467-005BMSD** SampType: **MSD** TestCode: **RSKSOP-175** Units: **µg/L** Prep Date: **12/14/2005** RunNo: **76293**
Client ID: Batch ID: **65425** TestNo: **SOP-RSK 17** Analysis Date: **12/15/2005** SeqNo: **1509210**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	125.7	4.0	200	0	62.8	26.7	123	127.6	1.51	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

December 19, 2005

Jim Wilson
Consultech Environmental, Inc.
1800 MacLeod Rd
Suite F
Lawrenceville, GA 30043

TEL: (678) 377-0400
FAX (678) 377-0051

RE: George Southers Grocery

Order No.: 0512618

Dear Jim Wilson:

Analytical Environmental Services, Inc. received 5 samples on 12/12/2005 5:55:00 PM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. Sample results are not dry weight corrected, unless if Pmoist analysis are requested on the chain of custody or other project specific arrangements have been made.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 06/01/05-06/30/06.
-AIHA Certification number 505 for analysis of Industrial Hygiene samples (Organics, Inorganics), Paint Chips, Soil and Dust Wipes, effective until 02/01/07.

These results relate only to the items tested. This report may only be reproduced in full and contains 12 total pages (including cover letter).

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

Sincerely,

Mila Crain

Mila Crain
Customer Service Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 0512618

Date: _____ Page _____ of _____

COMPANY: CONSULTECH ENVIRONMENTAL

ADDRESS: 1800 MACLEOD DR., SUITE F LAWRENCEVILLE, GA 30043

PHONE: 678-377-0400

FAX: 678-377-0051

SAMPLED BY: DREW MILLER

SIGNATURE: Drew Miller

ANALYSIS REQUESTED: BTEX/MTBE/NAPH/1,2DCA 8260; 6-OXYGENATES; EDB Soil; TOTAL LEAD; NITRATE; SULFATE; DISSOLVED IRON; METHANE

PRESERVATION (See codes): HCl; HCl; I; N; I; I; I; I

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	BTEX/MTBE/NAPH/1,2DCA 8260	6-OXYGENATES	EDB Soil	TOTAL LEAD	NITRATE	SULFATE	DISSOLVED IRON	METHANE	REMARKS	No # of Containers
1	DW-2	12/12/05	8:00	X		GW	X	X	X	X	X	X	X	X		
2	DW-4	12/12/05	8:30	X		GW	X	X	X	X	X	X	X	X		
3	DW-6	12/12/05	9:00	X		GW	X	X	X	X	X	X	X	X		
4	MW-33	12/12/05	9:30	X		GW	X	X	X	X	X	X	X	X		
5	MW-40	12/12/05	10:00	X		GW	X	X	X	X	X	X	X	X		
6																
7																
8																
9																
10																
11																
12																
13																
14																

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: Jim Wilson	12/12/05 5:55	1: Hannah Cole	12/12 5:55 pm
2:		2:	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER_____

PROJECT INFORMATION
PROJECT NAME: GEORGE SOUTHERN GROCERY
PROJECT #: C-05-02-015
SITE ADDRESS: CAMPOBELLO, SC
SEND REPORT TO: JIM WILSON
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #:_____ PO#:_____

RECEIPT
Total # of Containers

Turnaround Time Request
- ○ Standard 5 Business Days
- ○ 2 Business Day Rush
- ○ Next Business Day Rush
- ○ Same Day Rush (auth req.)
- ⊗ Other 12/16/05

STATE PROGRAM (if any): _____
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+ = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc. **Date:** *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: George Southers Grocery
Lab Order: 0512618

CASE NARRATIVE

Anion Analysis by Method 300:

Matrix spike recovery for Fluoride on sample 0512618-005F was outside control limits biased high. LCS recovery was within control limits indicating possible matrix interference.

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: George Southers Grocery
Lab ID: 0512618-001

Client Sample ID: DW-2
Collection Date: 12/12/2005 8:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	0.568	0.196		µg/L	65482	10	12/16/2005 9:39 AM
Surr: 4-Bromofluorobenzene	88.6	39.4-142		%REC	65482	1	12/16/2005 12:41 AM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	5.2	4.0		µg/L	65425	1	12/15/2005 11:00 AM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	BRL	12		mg/L		50	12/13/2005 9:47 AM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	130	50		mg/L		50	12/13/2005 9:47 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	3.57	1.00		µg/L	65450	1	12/15/2005 11:16 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	BRL	100		µg/L	65346	1	12/15/2005 9:09 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **TMP**
Ethanol	BRL	25	N	µg/L	65359	1	12/13/2005 7:55 PM
Ethyl tert-butyl alcohol	94	5.0	N	µg/L	65359	1	12/13/2005 7:55 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65359	1	12/13/2005 7:55 PM
Isopropyl ether	120	5.0	N	µg/L	65359	1	12/13/2005 7:55 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	65359	1	12/13/2005 7:55 PM
tert-Amyl ethyl ether	BRL	5.0	N	µg/L	65359	1	12/13/2005 7:55 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	65359	1	12/13/2005 7:55 PM
tert-Butyl formate	BRL	5.0	N	µg/L	65359	1	12/13/2005 7:55 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **TMP**
Methyl tert-butyl ether	BRL	1.0		µg/L	65359	1	12/13/2005 7:55 PM
Benzene	400	10		µg/L	65359	10	12/14/2005 1:31 PM
1,2-Dichloroethane	BRL	5.0		µg/L	65359	1	12/13/2005 7:55 PM
Toluene	310	10		µg/L	65359	10	12/14/2005 1:31 PM
Ethylbenzene	78	1.0		µg/L	65359	1	12/13/2005 7:55 PM
m,p-Xylene	320	1.0		µg/L	65359	1	12/13/2005 7:55 PM
o-Xylene	170	1.0		µg/L	65359	1	12/13/2005 7:55 PM
Naphthalene	25	5.0		µg/L	65359	1	12/13/2005 7:55 PM
Surr: 4-Bromofluorobenzene	92.8	63.7-115		%REC	65359	10	12/14/2005 1:31 PM
Surr: 4-Bromofluorobenzene	95.3	63.7-115		%REC	65359	1	12/13/2005 7:55 PM
Surr: Dibromofluoromethane	84.8	70.4-123		%REC	65359	1	12/13/2005 7:55 PM
Surr: Dibromofluoromethane	85.0	70.4-123		%REC	65359	10	12/14/2005 1:31 PM
Surr: Toluene-d8	92.9	73.4-115		%REC	65359	1	12/13/2005 7:55 PM
Surr: Toluene-d8	88.7	73.4-115		%REC	65359	10	12/14/2005 1:31 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: George Southers Grocery
Lab ID: 0512618-002

Client Sample ID: DW-4
Collection Date: 12/12/2005 8:30:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	11.6	3.92		µg/L	65482	200	12/16/2005 10:02 AM
Surr: 4-Bromofluorobenzene	89.8	39.4-142		%REC	65482	1	12/16/2005 1:04 AM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	BRL	4.0		µg/L	65425	1	12/15/2005 11:09 AM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	BRL	0.25		mg/L		1	12/13/2005 12:05 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	27	1.0		mg/L		1	12/13/2005 12:05 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	13.2	1.00		µg/L	65450	1	12/15/2005 11:22 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	226	100		µg/L	65346	1	12/15/2005 9:25 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **TMP**
Ethanol	BRL	25	N	µg/L	65359	1	12/13/2005 8:45 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	65359	1	12/13/2005 8:45 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65359	1	12/13/2005 8:45 PM
Isopropyl ether	270	5.0	N	µg/L	65359	1	12/13/2005 8:45 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	65359	1	12/13/2005 8:45 PM
tert-Amyl ethyl ether	BRL	5.0	N	µg/L	65359	1	12/13/2005 8:45 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	65359	1	12/13/2005 8:45 PM
tert-Butyl formate	BRL	5.0	N	µg/L	65359	1	12/13/2005 8:45 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **TMP**
Methyl tert-butyl ether	BRL	1.0		µg/L	65359	1	12/13/2005 8:45 PM
Benzene	640	10		µg/L	65359	10	12/14/2005 2:21 PM
1,2-Dichloroethane	BRL	5.0		µg/L	65359	1	12/13/2005 8:45 PM
Toluene	4700	100		µg/L	65359	100	12/14/2005 1:56 PM
Ethylbenzene	620	100		µg/L	65359	100	12/14/2005 1:56 PM
m,p-Xylene	3100	10		µg/L	65359	10	12/14/2005 2:21 PM
o-Xylene	1300	10		µg/L	65359	10	12/14/2005 2:21 PM
Naphthalene	310	50		µg/L	65359	10	12/14/2005 2:21 PM
Surr: 4-Bromofluorobenzene	98.3	63.7-115		%REC	65359	1	12/13/2005 8:45 PM
Surr: 4-Bromofluorobenzene	94.4	63.7-115		%REC	65359	100	12/14/2005 1:56 PM
Surr: 4-Bromofluorobenzene	102	63.7-115		%REC	65359	10	12/14/2005 2:21 PM
Surr: Dibromofluoromethane	77.3	70.4-123		%REC	65359	1	12/13/2005 8:45 PM
Surr: Dibromofluoromethane	87.5	70.4-123		%REC	65359	100	12/14/2005 1:56 PM
Surr: Dibromofluoromethane	87.1	70.4-123		%REC	65359	10	12/14/2005 2:21 PM
Surr: Toluene-d8	93.8	73.4-115		%REC	65359	1	12/13/2005 8:45 PM
Surr: Toluene-d8	92.8	73.4-115		%REC	65359	100	12/14/2005 1:56 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT:	Consultech Environmental, Inc.	**Client Sample ID:**	DW-4
Project:	George Southers Grocery	**Collection Date:**	12/12/2005 8:30:00 AM
Lab ID:	0512618-002	**Matrix:**	GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **TMP**
Surr: Toluene-d8	93.8	73.4-115		%REC	65359	10	12/14/2005 2:21 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
	BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
	H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
	N	Analyte not NELAC certified	NC	Not Confirmed
	B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: George Southers Grocery
Lab ID: 0512618-003

Client Sample ID: DW-6
Collection Date: 12/12/2005 9:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	65482	1	12/16/2005 1:27 AM
Surr: 4-Bromofluorobenzene	86.5	39.4-142		%REC	65482	1	12/16/2005 1:27 AM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	BRL	4.0		µg/L	65425	1	12/15/2005 11:17 AM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	BRL	0.25		mg/L		1	12/13/2005 10:16 AM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	68	1.0		mg/L		1	12/13/2005 10:16 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	4.50	1.00		µg/L	65450	1	12/15/2005 11:27 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	BRL	100		µg/L	65346	1	12/15/2005 9:31 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **TMP**
Ethanol	BRL	25	N	µg/L	65359	1	12/13/2005 8:20 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	65359	1	12/13/2005 8:20 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65359	1	12/13/2005 8:20 PM
Isopropyl ether	BRL	5.0	N	µg/L	65359	1	12/13/2005 8:20 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	65359	1	12/13/2005 8:20 PM
tert-Amyl ethyl ether	BRL	5.0	N	µg/L	65359	1	12/13/2005 8:20 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	65359	1	12/13/2005 8:20 PM
tert-Butyl formate	BRL	5.0	N	µg/L	65359	1	12/13/2005 8:20 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **TMP**
Methyl tert-butyl ether	BRL	1.0		µg/L	65359	1	12/13/2005 8:20 PM
Benzene	BRL	1.0		µg/L	65359	1	12/13/2005 8:20 PM
1,2-Dichloroethane	BRL	5.0		µg/L	65359	1	12/13/2005 8:20 PM
Toluene	BRL	1.0		µg/L	65359	1	12/13/2005 8:20 PM
Ethylbenzene	BRL	1.0		µg/L	65359	1	12/13/2005 8:20 PM
m,p-Xylene	BRL	1.0		µg/L	65359	1	12/13/2005 8:20 PM
o-Xylene	BRL	1.0		µg/L	65359	1	12/13/2005 8:20 PM
Naphthalene	BRL	5.0		µg/L	65359	1	12/13/2005 8:20 PM
Surr: 4-Bromofluorobenzene	83.3	63.7-115		%REC	65359	1	12/13/2005 8:20 PM
Surr: Dibromofluoromethane	92.9	70.4-123		%REC	65359	1	12/13/2005 8:20 PM
Surr: Toluene-d8	92.0	73.4-115		%REC	65359	1	12/13/2005 8:20 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: George Southers Grocery
Lab ID: 0512618-004

Client Sample ID: MW-33
Collection Date: 12/12/2005 9:30:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	65482	1	12/16/2005 2:13 AM
Surr: 4-Bromofluorobenzene	88.1	39.4-142		%REC	65482	1	12/16/2005 2:13 AM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	BRL	4.0		µg/L	65425	1	12/15/2005 11:25 AM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	BRL	0.25		mg/L		1	12/13/2005 10:31 AM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	6.8	1.0		mg/L		1	12/13/2005 10:31 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	3.48	1.00		µg/L	65450	1	12/15/2005 11:32 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	BRL	100		µg/L	65346	1	12/15/2005 9:36 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	65572	1	12/19/2005 1:19 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	65572	1	12/19/2005 1:19 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65572	1	12/19/2005 1:19 PM
Isopropyl ether	BRL	5.0	N	µg/L	65572	1	12/19/2005 1:19 PM
tert-Amyl alcohol	64	5.0	N	µg/L	65572	1	12/19/2005 1:19 PM
tert-Amyl ethyl ether	BRL	5.0	N	µg/L	65572	1	12/19/2005 1:19 PM
tert-Butyl Alcohol	54	5.0	N	µg/L	65572	1	12/19/2005 1:19 PM
tert-Butyl formate	BRL	5.0	N	µg/L	65572	1	12/19/2005 1:19 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	65359	1	12/14/2005 6:05 PM
Benzene	BRL	1.0		µg/L	65359	1	12/14/2005 6:05 PM
1,2-Dichloroethane	BRL	5.0		µg/L	65359	1	12/14/2005 6:05 PM
Toluene	BRL	1.0		µg/L	65359	1	12/14/2005 6:05 PM
Ethylbenzene	BRL	1.0		µg/L	65359	1	12/14/2005 6:05 PM
m,p-Xylene	BRL	1.0		µg/L	65359	1	12/14/2005 6:05 PM
o-Xylene	BRL	1.0		µg/L	65359	1	12/14/2005 6:05 PM
Naphthalene	BRL	5.0		µg/L	65359	1	12/14/2005 6:05 PM
Surr: 4-Bromofluorobenzene	78.2	63.7-115		%REC	65359	1	12/14/2005 6:05 PM
Surr: 4-Bromofluorobenzene	77.9	63.7-115		%REC	65572	1	12/19/2005 1:19 PM
Surr: Dibromofluoromethane	99.9	70.4-123		%REC	65359	1	12/14/2005 6:05 PM
Surr: Dibromofluoromethane	91.4	70.4-123		%REC	65572	1	12/19/2005 1:19 PM
Surr: Toluene-d8	91.1	73.4-115		%REC	65572	1	12/19/2005 1:19 PM
Surr: Toluene-d8	95.0	73.4-115		%REC	65359	1	12/14/2005 6:05 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: George Southers Grocery
Lab ID: 0512618-005

Client Sample ID: MW-40
Collection Date: 12/12/2005 10:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS			**SW8011**				Analyst: **MM**
1,2-Dibromoethane	0.130	0.020		µg/L	65482	1	12/16/2005 2:36 AM
Surr: 4-Bromofluorobenzene	101	39.4-142		%REC	65482	1	12/16/2005 2:36 AM
GC ANALYSIS OF GASEOUS SAMPLES			**SOP-RSK 175**				Analyst: **JMZ**
Methane	BRL	4.0		µg/L	65425	1	12/15/2005 11:34 AM
ION SCAN			**SW9056**				Analyst: **CT**
Nitrate	0.90	0.25		mg/L		1	12/13/2005 10:46 AM
ION SCAN			**SW9056**				Analyst: **CT**
Sulfate	8.5	1.0		mg/L		1	12/13/2005 10:46 AM
TOTAL METALS BY ICP/MS			**SW6020**		**(SW3005A)**		Analyst: **SSS**
Lead	99.0	1.00		µg/L	65450	1	12/15/2005 11:37 PM
DISSOLVED METALS BY ICP/MS			**SW6020**				Analyst: **SSS**
Iron	BRL	100		µg/L	65346	1	12/15/2005 9:41 PM
OXYGENATES BY GC/MS			**SW8260B**		**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	65572	1	12/19/2005 1:43 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	65572	1	12/19/2005 1:43 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65572	1	12/19/2005 1:43 PM
Isopropyl ether	BRL	5.0	N	µg/L	65572	1	12/19/2005 1:43 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	65572	1	12/19/2005 1:43 PM
tert-Amyl ethyl ether	BRL	5.0	N	µg/L	65572	1	12/19/2005 1:43 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	65572	1	12/19/2005 1:43 PM
tert-Butyl formate	BRL	5.0	N	µg/L	65572	1	12/19/2005 1:43 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS			**SW8260B**		**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	65359	1	12/14/2005 6:30 PM
Benzene	5.2	1.0		µg/L	65359	1	12/14/2005 6:30 PM
1,2-Dichloroethane	BRL	5.0		µg/L	65359	1	12/14/2005 6:30 PM
Toluene	37	1.0		µg/L	65359	1	12/14/2005 6:30 PM
Ethylbenzene	4.0	1.0		µg/L	65359	1	12/14/2005 6:30 PM
m,p-Xylene	9.7	1.0		µg/L	65359	1	12/14/2005 6:30 PM
o-Xylene	7.7	1.0		µg/L	65359	1	12/14/2005 6:30 PM
Naphthalene	5.4	5.0		µg/L	65359	1	12/14/2005 6:30 PM
Surr: 4-Bromofluorobenzene	89.6	63.7-115		%REC	65359	1	12/14/2005 6:30 PM
Surr: 4-Bromofluorobenzene	89.5	63.7-115		%REC	65572	1	12/19/2005 1:43 PM
Surr: Dibromofluoromethane	92.1	70.4-123		%REC	65359	1	12/14/2005 6:30 PM
Surr: Dibromofluoromethane	94.2	70.4-123		%REC	65572	1	12/19/2005 1:43 PM
Surr: Toluene-d8	89.9	73.4-115		%REC	65572	1	12/19/2005 1:43 PM
Surr: Toluene-d8	95.4	73.4-115		%REC	65359	1	12/14/2005 6:30 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

19-Dec-05

Lab Order: 0512618
Client: Consultech Environmental, Inc.
Project: George Southers Grocery

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0512618-001A	DW-2	12/12/2005 8:00:00 AM	Groundwater	Oxygenates by GC/MS		12/12/2005	12/13/2005
				Volatile Organic Compounds by GC/MS		12/12/2005	12/13/2005
				Volatile Organic Compounds by GC/MS		12/12/2005	12/14/2005
0512618-001B				GC Analysis of Gaseous Samples		12/14/2005	12/15/2005
0512618-001C				MICRO-EXTRACTABLE VOCs		12/15/2005	12/16/2005
				MICRO-EXTRACTABLE VOCs		12/15/2005	12/16/2005
0512618-001D				Dissolved Metals by ICP/MS		12/13/2005	12/15/2005
0512618-001E				Total Metals by ICP/MS		12/15/2005	12/15/2005
0512618-001F				ION SCAN			12/13/2005
				ION SCAN			12/13/2005
0512618-002A	DW-4	12/12/2005 8:30:00 AM		Oxygenates by GC/MS		12/12/2005	12/13/2005
				Volatile Organic Compounds by GC/MS		12/12/2005	12/13/2005
				Volatile Organic Compounds by GC/MS		12/12/2005	12/14/2005
				Volatile Organic Compounds by GC/MS		12/12/2005	12/14/2005
0512618-002B				GC Analysis of Gaseous Samples		12/14/2005	12/15/2005
0512618-002C				MICRO-EXTRACTABLE VOCs		12/15/2005	12/16/2005
				MICRO-EXTRACTABLE VOCs		12/15/2005	12/16/2005
0512618-002D				Dissolved Metals by ICP/MS		12/13/2005	12/15/2005
0512618-002E				Total Metals by ICP/MS		12/15/2005	12/15/2005
0512618-002F				ION SCAN			12/13/2005
				ION SCAN			12/13/2005
0512618-003A	DW-6	12/12/2005 9:00:00 AM		Oxygenates by GC/MS		12/12/2005	12/13/2005
				Volatile Organic Compounds by GC/MS		12/12/2005	12/13/2005
0512618-003B				GC Analysis of Gaseous Samples		12/14/2005	12/15/2005
0512618-003C				MICRO-EXTRACTABLE VOCs		12/15/2005	12/16/2005
0512618-003D				Dissolved Metals by ICP/MS		12/13/2005	12/15/2005
0512618-003E				Total Metals by ICP/MS		12/15/2005	12/15/2005
0512618-003F				ION SCAN			12/13/2005

Analytical Environmental Services, Inc.

19-Dec-05

Lab Order: 0512618
Client: Consultech Environmental, Inc.
Project: George Southers Grocery

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0512618-003F	DW-6	12/12/2005 9:00:00 AM	Groundwater	ION SCAN			12/13/2005
0512618-004A	MW-33	12/12/2005 9:30:00 AM		Oxygenates by GC/MS		12/19/2005	12/19/2005
				Volatile Organic Compounds by GC/MS		12/12/2005	12/14/2005
				Volatile Organic Compounds by GC/MS		12/19/2005	12/19/2005
0512618-004B				GC Analysis of Gaseous Samples		12/14/2005	12/15/2005
0512618-004C				MICRO-EXTRACTABLE VOCs		12/15/2005	12/16/2005
0512618-004D				Dissolved Metals by ICP/MS		12/13/2005	12/15/2005
0512618-004E				Total Metals by ICP/MS		12/15/2005	12/15/2005
0512618-004F				ION SCAN			12/13/2005
				ION SCAN			12/13/2005
0512618-005A	MW-40	12/12/2005 10:00:00 AM		Oxygenates by GC/MS		12/19/2005	12/19/2005
				Volatile Organic Compounds by GC/MS		12/12/2005	12/14/2005
				Volatile Organic Compounds by GC/MS		12/19/2005	12/19/2005
0512618-005B				GC Analysis of Gaseous Samples		12/14/2005	12/15/2005
0512618-005C				MICRO-EXTRACTABLE VOCs		12/15/2005	12/16/2005
0512618-005D				Dissolved Metals by ICP/MS		12/13/2005	12/15/2005
0512618-005E				Total Metals by ICP/MS		12/15/2005	12/15/2005
0512618-005F				ION SCAN			12/13/2005
				ION SCAN			12/13/2005

ANALYTICAL ENVIRONMENTAL SERVICES, INC
378[illegible]idential Parkway, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order [illegible]

Date: _____ Page _____ of _____

COMPANY: Consultech Env.

ADDRESS: 1800 Macleod Dr. Suite F. Lawrenceville 30043

PHONE: 678 377-0400

FAX:

SAMPLED BY: Drew Miller

SIGNATURE: Drew Miller

ANALYSIS REQUESTED

PRESERVATION (See codes)

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	BTEX MTBE NAPH 1,2 DCA & DIPE	EDB 8011	Lead	Methane	Nitrate Sulfate	Dissolved Lead													REMARKS	No # of Containers
							HCl		N																	
1	DW-1	12/14	1200			GW																				9
2	MW-10R	12/14	1215																							9
3	DW-5	12/14	1230																							9
4	DW-3	12/14	1245																							9
5																										
6																										
7																										
8																										
9																										1
10																										
11																										
12																										
13																										
14																										

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: Drew Miller	12/14	1: [illegible]	11:25 12/15/05
2:		2:	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER_____

PROJECT INFORMATION

PROJECT NAME: Southern's
PROJECT #: C-05-02-015
SITE ADDRESS: Campabello
SEND REPORT TO: Jim Wilson
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers: 36

Turnaround Time Request
- ○ Standard 5 Business Days
- ⊗ 2 Business Day Rush
- ○ Next Business Day Rush
- ○ Same Day Rush (auth req.)
- ○ Other _____

STATE PROGRAM (if any): _____
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT. SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

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

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0512770-001

Client Sample ID: DW-1
Collection Date: 12/14/2005 12:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	0.184	0.020		µg/L	65587	1	12/19/2005 3:06 PM
Surr: 4-Bromofluorobenzene	110	39.4-142		%REC	65587	1	12/19/2005 3:06 PM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	4.6	4.0		µg/L	65524	1	12/16/2005 1:54 PM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	BRL	0.25		mg/L		1	12/15/2005 1:45 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	BRL	1.0		mg/L		1	12/15/2005 1:45 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	1.07	1.00		µg/L	65478	1	12/16/2005 2:32 AM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	BRL	100		µg/L	65473	1	12/16/2005 6:55 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	65572	1	12/19/2005 2:09 PM
Ethyl tert-butyl alcohol	86	5.0	N	µg/L	65572	1	12/19/2005 2:09 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65572	1	12/19/2005 2:09 PM
Isopropyl ether	220	5.0	N	µg/L	65572	1	12/19/2005 2:09 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	65572	1	12/19/2005 2:09 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	65572	1	12/19/2005 2:09 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	65572	1	12/19/2005 2:09 PM
tert-Butyl formate	BRL	5.0	N	µg/L	65572	1	12/19/2005 2:09 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	65572	1	12/19/2005 2:09 PM
Benzene	900	10		µg/L	65572	10	12/19/2005 3:48 PM
1,2-Dichloroethane	BRL	5.0		µg/L	65572	1	12/19/2005 2:09 PM
Toluene	50	1.0		µg/L	65572	1	12/19/2005 2:09 PM
Ethylbenzene	5.9	1.0		µg/L	65572	1	12/19/2005 2:09 PM
m,p-Xylene	25	1.0		µg/L	65572	1	12/19/2005 2:09 PM
o-Xylene	11	1.0		µg/L	65572	1	12/19/2005 2:09 PM
Naphthalene	62	5.0		µg/L	65572	1	12/19/2005 2:09 PM
Surr: 4-Bromofluorobenzene	92.7	63.7-115		%REC	65572	1	12/19/2005 2:09 PM
Surr: 4-Bromofluorobenzene	87.2	63.7-115		%REC	65572	10	12/19/2005 3:48 PM
Surr: Dibromofluoromethane	77.7	70.4-123		%REC	65572	1	12/19/2005 2:09 PM
Surr: Dibromofluoromethane	86.1	70.4-123		%REC	65572	10	12/19/2005 3:48 PM
Surr: Toluene-d8	88.3	73.4-115		%REC	65572	10	12/19/2005 3:48 PM
Surr: Toluene-d8	91.2	73.4-115		%REC	65572	1	12/19/2005 2:09 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc. **Client Sample ID:** MW-10R
Project: Souther's Grocery **Collection Date:** 12/14/2005 12:15:00 PM
Lab ID: 0512770-002 **Matrix:** GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	65587	1	12/19/2005 3:29 PM
Surr: 4-Bromofluorobenzene	86.4	39.4-142		%REC	65587	1	12/19/2005 3:29 PM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	BRL	4.0		µg/L	65524	1	12/16/2005 2:09 PM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	BRL	5.0		mg/L		20	12/15/2005 2:31 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	37	20		mg/L		20	12/15/2005 2:31 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	1.34	1.00		µg/L	65478	1	12/16/2005 2:37 AM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	BRL	100		µg/L	65473	1	12/16/2005 7:01 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	65572	1	12/19/2005 2:34 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	65572	1	12/19/2005 2:34 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65572	1	12/19/2005 2:34 PM
Isopropyl ether	BRL	5.0	N	µg/L	65572	1	12/19/2005 2:34 PM
tert-Amyl alcohol	120	5.0	N	µg/L	65572	1	12/19/2005 2:34 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	65572	1	12/19/2005 2:34 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	65572	1	12/19/2005 2:34 PM
tert-Butyl formate	BRL	5.0	N	µg/L	65572	1	12/19/2005 2:34 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	65572	1	12/19/2005 2:34 PM
Benzene	BRL	1.0		µg/L	65572	1	12/19/2005 2:34 PM
1,2-Dichloroethane	BRL	5.0		µg/L	65572	1	12/19/2005 2:34 PM
Toluene	BRL	1.0		µg/L	65572	1	12/19/2005 2:34 PM
Ethylbenzene	BRL	1.0		µg/L	65572	1	12/19/2005 2:34 PM
m,p-Xylene	BRL	1.0		µg/L	65572	1	12/19/2005 2:34 PM
o-Xylene	2.8	1.0		µg/L	65572	1	12/19/2005 2:34 PM
Naphthalene	5.0	5.0		µg/L	65572	1	12/19/2005 2:34 PM
Surr: 4-Bromofluorobenzene	83.7	63.7-115		%REC	65572	1	12/19/2005 2:34 PM
Surr: Dibromofluoromethane	91.8	70.4-123		%REC	65572	1	12/19/2005 2:34 PM
Surr: Toluene-d8	88.2	73.4-115		%REC	65572	1	12/19/2005 2:34 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0512770-003

Client Sample ID: DW-5
Collection Date: 12/14/2005 12:30:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	0.893	0.198		µg/L	65587	10	12/19/2005 5:37 PM
Surr: 4-Bromofluorobenzene	110	39.4-142		%REC	65587	1	12/19/2005 5:00 PM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	5.1	4.0		µg/L	65524	1	12/16/2005 2:29 PM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	BRL	0.25		mg/L		1	12/15/2005 2:00 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	BRL	1.0		mg/L		1	12/15/2005 2:00 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	BRL	1.00		µg/L	65478	1	12/16/2005 2:43 AM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	BRL	100		µg/L	65473	1	12/16/2005 7:06 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	65572	1	12/19/2005 2:58 PM
Ethyl tert-butyl alcohol	130	5.0	N	µg/L	65572	1	12/19/2005 2:58 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65572	1	12/19/2005 2:58 PM
Isopropyl ether	270	5.0	N	µg/L	65572	1	12/19/2005 2:58 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	65572	1	12/19/2005 2:58 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	65572	1	12/19/2005 2:58 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	65572	1	12/19/2005 2:58 PM
tert-Butyl formate	BRL	5.0	N	µg/L	65572	1	12/19/2005 2:58 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	65572	1	12/19/2005 2:58 PM
Benzene	1200	10		µg/L	65572	10	12/19/2005 4:13 PM
1,2-Dichloroethane	BRL	5.0		µg/L	65572	1	12/19/2005 2:58 PM
Toluene	71	1.0		µg/L	65572	1	12/19/2005 2:58 PM
Ethylbenzene	14	1.0		µg/L	65572	1	12/19/2005 2:58 PM
m,p-Xylene	61	1.0		µg/L	65572	1	12/19/2005 2:58 PM
o-Xylene	23	1.0		µg/L	65572	1	12/19/2005 2:58 PM
Naphthalene	100	5.0		µg/L	65572	1	12/19/2005 2:58 PM
Surr: 4-Bromofluorobenzene	95.8	63.7-115		%REC	65572	1	12/19/2005 2:58 PM
Surr: 4-Bromofluorobenzene	90.6	63.7-115		%REC	65572	10	12/19/2005 4:13 PM
Surr: Dibromofluoromethane	79.0	70.4-123		%REC	65572	1	12/19/2005 2:58 PM
Surr: Dibromofluoromethane	87.1	70.4-123		%REC	65572	10	12/19/2005 4:13 PM
Surr: Toluene-d8	87.7	73.4-115		%REC	65572	10	12/19/2005 4:13 PM
Surr: Toluene-d8	91.4	73.4-115		%REC	65572	1	12/19/2005 2:58 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0512770-004

Client Sample ID: DW-3
Collection Date: 12/14/2005 12:45:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	65587	1	12/19/2005 2:20 PM
Surr: 4-Bromofluorobenzene	120	39.4-142		%REC	65587	1	12/19/2005 2:20 PM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	BRL	4.0		µg/L	65524	1	12/16/2005 2:55 PM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	0.94	0.25		mg/L		1	12/15/2005 2:15 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	2.5	1.0		mg/L		1	12/15/2005 2:15 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	2.77	1.00		µg/L	65478	1	12/16/2005 2:48 AM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	BRL	100		µg/L	65473	1	12/16/2005 6:40 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	65572	1	12/19/2005 3:23 PM
Ethyl tert-butyl alcohol	53	5.0	N	µg/L	65572	1	12/19/2005 3:23 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65572	1	12/19/2005 3:23 PM
Isopropyl ether	BRL	5.0	N	µg/L	65572	1	12/19/2005 3:23 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	65572	1	12/19/2005 3:23 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	65572	1	12/19/2005 3:23 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	65572	1	12/19/2005 3:23 PM
tert-Butyl formate	BRL	5.0	N	µg/L	65572	1	12/19/2005 3:23 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	65572	1	12/19/2005 3:23 PM
Benzene	22	1.0		µg/L	65572	1	12/19/2005 3:23 PM
1,2-Dichloroethane	BRL	5.0		µg/L	65572	1	12/19/2005 3:23 PM
Toluene	140	1.0		µg/L	65572	1	12/19/2005 3:23 PM
Ethylbenzene	13	1.0		µg/L	65572	1	12/19/2005 3:23 PM
m,p-Xylene	51	1.0		µg/L	65572	1	12/19/2005 3:23 PM
o-Xylene	42	1.0		µg/L	65572	1	12/19/2005 3:23 PM
Naphthalene	8.4	5.0		µg/L	65572	1	12/19/2005 3:23 PM
Surr: 4-Bromofluorobenzene	92.2	63.7-115		%REC	65572	1	12/19/2005 3:23 PM
Surr: Dibromofluoromethane	86.6	70.4-123		%REC	65572	1	12/19/2005 3:23 PM
Surr: Toluene-d8	91.7	73.4-115		%REC	65572	1	12/19/2005 3:23 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

APPENDIX 6
Soil, Water, and LPH Waste Disposal Manifest

CONSULTECH ENVIRONMENTAL, INC.

December 23, 2005

Ms. Maia Milenkova
Assessment and Corrective Action Division
Underground storage Tank Program
South Carolina DHEC
2600 Bull Street
Columbia, South Carolina 29201

RE: Disposal manifests for soil and water encountered during Tier II work
George Souther's Grocery
280 Goodjoin Road
Campobello, South Carolina 29322
SCDHEC Site ID #08650, CA#21963

Dear Ms. Milenkova,

This letter serves as certification that all water and soil encountered during our Tier II work was handled in a manner that complies with all conditions established by DHEC for treatment of small amounts of petroleum hydrocarbon contaminated soils and groundwater.

Source:

Soil and groundwater obtained as a result of soil sampling, well development and groundwater sampling.
Conditions:

- No free product was disposed of separately from the drums of water.
- Analytical results show an average concentration of less than 4,900 ppb Benzene and less than 20,000 ppb total BTEX.
- The water obtained was containerized on site, for a period of less than 30 days, prior to treatment by the activated carbon canisters.
- Records of carbon canister usage are maintained by Consultech.
- The carbon canisters have an expected life of 5,000 gallons before replacement is required.
- Recommendations and conditions issued by the canister manufacturer and SCDHEC have been followed.
- All water obtained was treated on site using an up-flow treatment drum consisting of 90 lbs. of activated carbon. Manufacturer's suggested treatment life is 5,000 gallons of water.

Specific site conditions of referenced site:

- A total of ten 55-gallon drums of water were treated on December 15, 2005 at the referenced site.
- Sixty-nine 55-gallon drums of soil were removed from the referenced site and disposed of at Union County Landfill, Enoree, SC. See attached manifests.

Should you have any questions, please contact me at 678-377-0400.

Sincerely,
Consultech Environmental, Inc.

Drew Miller

Drew Miller
Staff Scientist

1800 MacLeod Drive, Suite F * Lawrenceville, GA 30043-5376
678 377-0400 * FAX 678 377-0051

Box-5G23

61,460

REPUBLIC SERVICES, INC.

#122205

NON-HAZARDOUS WASTE MANIFEST

GENERATOR INFORMATION

Generator Name: SCDHEC
Address: 2600 Bull St.
City: Columbia County:
State: SC Zip:
Site Location (if different): 280 Goodjoin Rd. Campobello, SC

CUSTOMER/BILLING INFORMATION

Billing Name: EnviroSmart
Address: P. O. Box 20666
City: Charleston County: Charleston
State: SC Zip: 29413

Republic Services Approval #	Description of Waste	Volume/Weight	Expiration Date	Container Type
50817-03	petroleum contaminated	15,000 #		20 yd
	Soil	69 Drums		

*Attach Additional Sheet if necessary

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR 261 or any applicable state law. Further, 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.

Carey Evans — Carey Evans — 12-21-05
Generator/Authorized Agent Name — Signature — Date Shipped

TRANSPORTER INFORMATION

Transporter Name: Pascon
Address: 1541 North Lake Drive Lexington S.C.
DOT #
Truck Number: R010
Phone Number: 359-9334

I certify no hazardous waste or other regulated substance was knowingly introduced to the waste while in my custody. The waste transported in this vehicle is the waste identified above, to the best of my knowledge.

Willie Wilson — Willie Wilson — 12-21-05
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL SITE INFORMATION

Site Name: Union Cnty Landfill
Phone No. 864-969-4460
Address: 868 Wildcat Rd., Enoree, SC 29335

I hereby acknowledge receipt of the above described materials

Beth Collier — Beth Collier — 12/22/05
Name (Print or Type) — Signature — Date Received

Form SW02 (2003)

Republic Services Union County Landfill
892 WILDCAT ROAD
ENOREE, SC 29335
(864) 969-4466

TICKET: 59190
DATE: 12/22/2005
TIME: 12:04 - 12:05

CUSTOMER: 00384 / EnviroSmart/SCDHEC
TRAILER:
PROFILE: SDA17-05 / SC DHEC/GEORGE SOUTHER'S GROCERY
TRUCK: RO1020YU ROUTE: NA
TRUCK TYPE: RO / ROLL-OFF WO:
COMMENT: 122205

P.O.:
GROSS: 61460 LBS Manual
TARE: 33560 LBS
NET: 27900 LBS

WASTE	QUANTITY	UNIT
SPECIAL / SPECIAL	13.95	T

I certify that I have not disposed of any liquid or hazardous waste.

Driver: Wilkerson

Weighmaster: BETH COLLIER

RM

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

MAR 18 2005

JAMES WILSON
CONSULTECH ENVIRONMENTAL
1800 MACLEOD DR STE F
LAWRENCEVILLE GA 30043-5736

Re: George Souther's Grocery, 280 Goodjoin Rd., Campobello, SC
UST Permit # 08650; CA #21963; MWA #UMW-19055
Bid Specification SB-26861-10/26/04-EMW; PO #557699
Tier II Plan received March 1, 2005
Spartanburg County

Dear Mr. Wilson:

UST DOCKET 02-1 T

The Underground Storage Tank (UST) Program has reviewed the Tier II Assessment Plan and associated Cost Agreement for the referenced site. Assessment activities should begin immediately upon receipt of this letter.

Cost Agreement (CA) # 21963 has been approved in the amount shown on the enclosed cost agreement spreadsheet and will be kept on file so that compensation can begin. **The SCDHEC reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with bid number SB-26861-10/26/04-EMW.** 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 the work. **The Tier II Assessment Report (1 hardcopy and 1 electronic copy) and invoice should be submitted within 60 days from the date of this correspondence.**

The Bureau grants pre-approval for transportation of drums of virgin petroleum contaminated soil and/or drums of groundwater from the referenced site to a permitted treatment facility. The contaminated soil and/or groundwater must be properly stored in labeled 55-gallon drums or equivalent containers. The contaminated soil and/or groundwater must be accepted by the approved treatment facility. There can be no spillage or leakage in transport. A copy of the disposal manifest from the receiving facility that clearly designates the quantity received must be included in the report.

A copy of the approved assessment cost agreement is enclosed for your information. Future invoices and/or other criteria included therein must comply with current SUPERB criteria per Section 44-2-20(2). Please reference **Cost Agreement Number 21963** on all pertinent invoices and correspondence. Please note that Sections 44-2-110(4) and 44-2-130(B) of the SUPERB Statute state that no costs will be allowed (considered for payment) unless prior approval from the Department is obtained. If for any reason there is a change in this cost agreement, any associated changes must be pre-approved by this Department in order for Consultech Environmental, Inc. to seek future cost compensation.

Any item(s) not clearly or completely addressed in the report (SC certified driller's number, disposal manifest for soil cuttings, disposal manifests for generated ground water, etc.) WILL NOT be compensated by the SUPERB Account. As agreed to in the referenced contract, the owner/operator of the referenced facility will not be responsible for any costs associated with this assessment.

ING #

Monitoring well approval for up to thirteen (13) permanent monitoring wells and 1200 feet of field screening is enclosed for your records. Please note that all applicable South Carolina certification requirements regarding laboratory analyses, well installation, and report preparation must be met.

On all correspondence regarding this site, please reference the UST Permit # 08650 and Cost Agreement # 21963. If you have questions concerning this correspondence, or would like to submit additional information, please contact me contact me by phone at (803) 896-6586 or (800) 826-5435 (within SC only), by fax at (803) 896-6245, or by email at dorankm@dhec.sc.gov.

Sincerely,

Karen M. Doran

Karen M. Doran, Hydrogeologist
Northeastern SC Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management

enc: Approved Cost Agreement #21963
Monitoring Well Approval (UMW-19055)

cc: George Souther, 280 Goodjoin Rd., Campobello, SC 29322 (no enc)
Technical File (w/ Monitoring Well Approval)

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

Date of Issue: March 2, 2005 Approval No.: UMW-19055

Approval is hereby granted to: Consultech Environmental, Inc.
UST Permit #: 08650
Facility: George Souther's Grocery, 280 Goodjoin Rd., Campobello, SC
County: Spartanburg

This approval is for the construction of up to 13 permanent and 1,200 feet of temporary monitoring wells in accordance with the construction plans and technical specifications outlined in the SC Well Standards and Regulations. The wells are to be constructed within the surficial aquifer for the intended purpose of monitoring ground-water quality and/or water level(s) at the referenced facility. Approval is provided with the following conditions:

1. The latitude and longitude, surveyed elevations, boring and/or geologist logs and actual (as built) construction details for each well will be submitted with the technical report.

2. Each well will be labeled with an identification plate constructed of a durable material affixed to the casing or surface pad where it is readily visible. The plate will provide monitoring well I.D.#, date of construction, static water level, and driller name and state certification #.

3. Well construction and sampling derived waste including, but not necessarily limited to, drill cuttings, drilling fluids, development and purge water should be managed properly and in compliance with applicable requirements. If containerized, each vessel should be clearly labeled with regard to contents, source, and date of activity.

4. A minimum of forty-eight (48) hours prior to initiation of drilling activities, please provide notice to Karen Doran at (803) 896-6586 or dorankm@dhec.sc.gov *and* Aubrey Stewart at (864) 596-3800 or stewarsa@dhec.sc.gov.

5. Please provide ground-water quality analytical data (chemical analysis and/or water level(s)) and associated measurements (i.e., in-situ field measurements) to me with the technical report.

6. Monitoring wells and temporary monitoring wells will be installed by or under the direct supervision of a licensed well driller certified by the State of South Carolina.

7. Monitoring wells and temporary monitoring wells will be abandoned by or under the direct supervision of a licensed well driller certified by the State of South Carolina. Temporary monitoring wells shall not remain in place for longer than 30 days from the date of installation. Monitoring wells may be abandoned only upon concurrence by this Division.

This approval is pursuant to the provisions of Section 44-55-40 of the 1976 South Carolina Code of Laws and the Department of Health and Environmental Control Regulations R.61-71. **Please remember to have a copy of this approval on the site during well installation.**

Approved by: Karen M. Doran

Karen M. Doran, Hydrogeologist
Northeastern SC Corrective Action Section
Assessment & Corrective Action Division
Underground Storage Tank Program
Bureau of Land & Waste Management

cc: Technical File

Approved Cost Agreement 21963

Facility: 08650 GEORGE SOUTHER'S GF RY
DORANKM
PO Number:

Task / Description	Categories	Item Description	Qty / Pct	Unit Price	Amount
01 PLAN					
		A PLAN PREPARATION	1.0000	50.00	50.00
		B TAX MAPS	1.0000	50.00	50.00
02 RECEPTOR SURVEY					
		RECEPTOR SURVEY	1.0000	50.00	50.00
03 COMPREHENSIVE SURVEY					
		COMPREHENSIVE SURVEY	2.0000	600.00	1,200.00
04 MOB/DEMOB					
		A EQUIPMENT	2.0000	125.00	250.00
		B PERSONNEL	4.0000	30.00	120.00
06 SOIL BORINGS (DRILLED)					
		SOIL BORINGS & FLD SCREENING	1,200.0000	10.00	12,000.00
09 WELL INSTALLATION					
		B WATER TABLE (DRILLED)	150.0000	25.00	3,750.00
		C TELESCOPING	550.0000	30.00	16,500.00
10 SAMPLE COLLECTION					
		A GROUND WATER	40.0000	30.00	1,200.00
		E GAUGE WELL ONLY	27.0000	15.00	405.00
11 ANALYSES					
	GW GROUNDWATER	A BTEX+NAPTH+MTBE	40.0000	31.50	1,260.00
		B RUSH BTEX ANALYSIS	10.0000	63.00	630.00
		E LEAD	40.0000	6.50	260.00
		F EDB	40.0000	30.50	1,220.00
		K NITRATE	13.0000	16.00	208.00
		L SULFATE	13.0000	13.50	175.50
		M FERROUS IRON	13.0000	8.50	110.50
		N METHANE	13.0000	37.00	481.00
		P 8 OXYGENATES	40.0000	63.00	2,520.00
13 FREE PRODUCT RECVRY RATE TEST					
		FREE PRODUCT RECVRY RATE TEST	5.0000	30.00	150.00
17 DISPOSAL					
		A1 WASTEWATER - PURGING/SAMPLING	8.0000	90.00	720.00
		C SOIL (TREATMENT/DISPOSAL)	50.0000	50.00	2,500.00
19 RPT/PROJECT MNGT & COORDINATIO					
		PCT PERCENT	0.0300	45,810.00	1,374.30
				Total Amount	47,184.30

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

MAY 09

GEORGE SOUTHER
280 GOODJOIN ROAD
CAMPOBELLO SC 29322-9187

Re: George Souther's Grocery, 280 Goodjoin Road, Campobello, SC
UST Permit # 08650
Tier II Assessment Report received December 30, 2005
Tier II Assessment Addendum received May 8, 2006
Spartanburg County

Dear Mr. Souther:

The Underground Storage Tank Program has reviewed the referenced report submitted by Consultech Environmental, Inc. The next scope of work deemed necessary is corrective action to remediate the concentrations of Chemicals of Concern (CoC) present at the referenced facility.

Based on your signed permission form SCDHEC will procure the services of an environmental contractor on your behalf. You will be notified of all pending activities regarding the site.

Please contact the undersigned if you would like to receive a copy of these reports at 803 896-6664, by fax at (803) 896-6245 or by email at milenkmp@dhec.sc.gov.

Sincerely, Maia Milenkova

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

cc: Technical File

SCDHEC/UST/05/09/06/MPM

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

FEB 02 2006

JAMES WILSON
CONSULTECH ENVIRONMENTAL
1800 MACLEOD DR STE F
LAWRENCEVILLE GA 30043-5736

Re: George Souther's Grocery, 280 Goodjoin Road, Campobello, SC
UST Permit # 08650; CA# 21963:A; MWA# UMW-19727
Bid Specification SB-26861-10/26/04-EMW; PO #557699
Tier II Assessment Report received December 30, 2005
Spartanburg County

Dear Mr. Wilson:

The Underground Storage Tank (UST) Program has reviewed the Tier II Assessment report. The referenced report indicates that the EDB extent of the petroleum plume has not been completely defined. Therefore, the Program requests additional assessment, including field screening and well installation at the site. Please see the attached site map with areas of concern. Pre-approved costs were amended to the existing CA #21963. Assessment activities should begin immediately upon receipt of this letter.

Cost Agreement (CA) # 21963:A has been approved in the amount shown on the enclosed cost agreement spreadsheet and will be kept on file so that compensation can begin. **The SCDHEC reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with bid number SB-26861-10/26/04-EMW.** 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 the work. **The Tier II Addendum Report (1 hardcopy and 1 electronic copy) and invoice should be submitted within 60 days from the date of this correspondence.**

The Bureau grants pre-approval for transportation of drums of virgin petroleum contaminated soil and/or drums of groundwater from the referenced site to a permitted treatment facility. The contaminated soil and/or groundwater must be properly stored in labeled 55-gallon drums or equivalent containers. The contaminated soil and/or groundwater must be accepted by the approved treatment facility. There can be no spillage or leakage in transport. A copy of the disposal manifest from the receiving facility that clearly designates the quantity received must be included in the report.

A copy of the approved assessment cost agreement is enclosed for your information. Future invoices and/or other criteria included therein must comply with current SUPERB criteria per Section 44-2-20(2). Please reference **Cost Agreement Number 21963:A** on all pertinent invoices and correspondence. Please note that Sections 44-2-110(4) and 44-2-130(B) of the SUPERB Statute state that no costs will be allowed (considered for payment) unless prior approval from the Department is obtained. If for any reason there is a change in this cost agreement, any associated changes must be pre-approved by this Department in order for Consultech Environmental, Inc. to seek future cost compensation.

Any item(s) not clearly or completely addressed in the report (SC certified driller's number, disposal manifest for soil cuttings, disposal manifests for generated ground water, etc.) WILL NOT be compensated by the SUPERB Account. As agreed to in the referenced contract, the owner/operator of the referenced facility will not be responsible for any costs associated with this assessment.

Monitoring well approval for permanent monitoring wells and field screening points installation is enclosed for your records. Please note that all applicable South Carolina certification requirements regarding laboratory analyses, well installation, and report preparation must be met.

On all correspondence regarding this site, please reference the UST Permit # 08650 and Cost Agreement # 21963:A. If you have questions concerning this correspondence, or would like to submit additional information, please contact me at (803) 896-6664.

Sincerely, Maia Milenkova

Maia Milenkova, Hydrogeologist
Assessment Section
Assessment & Corrective Action Division
Underground Storage Tank Program
Bureau of Land & Waste Management

enc: Approved Cost Agreement 21963:A
Monitoring Well Approval (UMW-19727)
Site map

cc: Mr. George Souther, 280 Goodjoin Road, Campobello, SC 29322 (w/o enc.)
Technical File (w/enc.)

SCDHEC/UST/01/05/06MPM

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 Form

Approval is hereby granted to:	Consultech Environmental, Inc.
(On behalf of):	Mr. George Souther
Facility:	280 Goodjoin Road, Campobello, SC
UST Permit Number:	**08650**
County:	Spartanburg

This approval is for the installation of eight groundwater monitoring wells (four temporary and four shallow). 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:

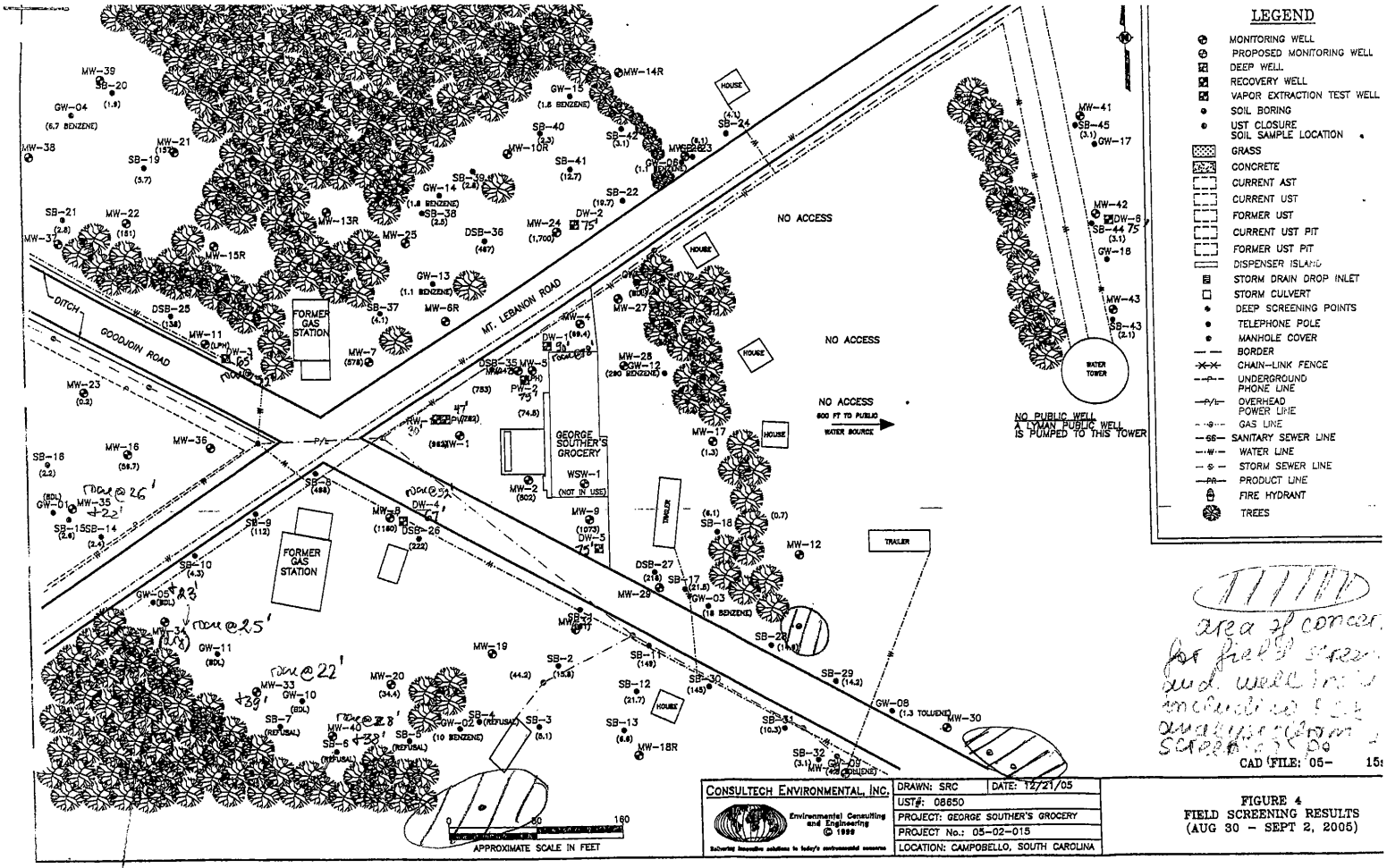
1. All wells shall be drilled, constructed, and abandoned by a South Carolina certified well driller per R.61-71.D.1.
2. All monitoring wells shall be labeled as required by R.61-71.H.2.c.
3. A Water Well Record Form or other form provided or approved by the Department shall be completed and submitted 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 Maia Milenkova (tel: 803 896-6664 or e-mail: milenkmp@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: January 4, 2005 **Approval #: UMW-19727**

Maia Milenkova

Maia Milenkova, Hydrogeologist
Assessment Section
Division of Assessment and Corrective Action
Bureau of Land and Waste Management



CONSULTECH ENVIRONMENTAL, INC.
Environmental Consulting and Engineering © 1998
Delivering innovative solutions to today's environmental concerns

DRAWN: SRC	DATE: 12/21/05
UST#: 08650	
PROJECT: GEORGE SOUTHER'S GROCERY	
PROJECT No.: 05-02-015	
LOCATION: CAMPOBELLO, SOUTH CAROLINA	

CAD FILE: 05- 15

FIGURE 4
FIELD SCREENING RESULTS
(AUG 30 - SEPT 2, 2005)

Approved Cost Agreement 1963

Facility: 08650 GEORGE SOUTHER'S GROCERY
MILENKMP
PO Number: 557699-42

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
01 PLAN						
		A	PLAN PREPARATION	1.0000	50.00	50.00
		B	TAX MAPS	1.0000	50.00	50.00
02 RECEPTOR SURVEY						
			RECEPTOR SURVEY	1.0000	50.00	50.00
03 COMPREHENSIVE SURVEY						
			COMPREHENSIVE SURVEY	3.0000	600.00	1,800.00
04 MOB/DEMOB						
		A	EQUIPMENT	5.0000	125.00	625.00
		B	PERSONNEL	9.0000	30.00	270.00
06 SOIL BORINGS (DRILLED)						
		A	SOIL BORINGS & FLD SCREENING	1,608.0000	10.00	16,080.00
09 WELL INSTALLATION						
		B	WATER TABLE (DRILLED)	610.0000	25.00	15,250.00
		C	TELESCOPING	550.0000	30.00	16,500.00
		D	ROCK DRILLING	580.0000	58.00	33,640.00
10 SAMPLE COLLECTION						
		A	GROUND WATER	55.0000	30.00	1,650.00
		E	GAUGE WELL ONLY	27.0000	15.00	405.00
11 ANALYSES						
	GW GROUNDWATER	A	BTEX+NAPTH+MTBE	62.0000	31.50	1,953.00
		B	RUSH BTEX ANALYSIS	10.0000	63.00	630.00
		E	LEAD	55.0000	6.50	357.50
		F	EDB	55.0000	30.50	1,677.50
		FF	EDB RUSH ANALYSIS	4.0000	61.00	244.00
		K	NITRATE	30.0000	16.00	480.00
		L	SULFATE	30.0000	13.50	405.00
		M	FERROUS IRON	30.0000	8.50	255.00
		N	METHANE	30.0000	37.00	1,110.00
		P	8 OXYGENATES	55.0000	63.00	3,465.00
13 FREE PRODUCT RECVRY RATE TEST						
			FREE PRODUCT RECVRY RATE TEST	5.0000	30.00	150.00
16 SUBSEQUENT SURVEY						
			SUBSEQUENT SURVEY	1.0000	100.00	100.00
17 DISPOSAL						
		A1	WASTEWATER - PURGING/SAMPLING	11.0000	90.00	990.00
		C	SOIL (TREATMENT/DISPOSAL)	76.0000	50.00	3,800.00
19 RPT/PROJECT MNGT & COORDINATIO						
		PCT	PERCENT	0.0300	101,987.00	3,059.61

Total Amount 105,046.61

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

MAY 03 2005

MS TINA WOLFE
275 GOODJOIN RD
CAMPOBELLO SC 29322

Re: George Souther's Grocery, 280 Goodjoin Rd., Campobello, SC
UST Permit #08650
Right of Entry Form
Spartanburg County

Dear Ms. Wolfe:

Thank you for submitting the property owner right-of-entry form to the Underground Storage Tank (UST) Program. In order to move forward with assessment activities, please sign and date the bottom of the enclosed form and return the form to the UST Program. You will be informed of any assessment or corrective action activities performed at the referenced facility and on your property.

On all correspondence regarding this site, please reference UST Permit #08650. If you have any questions, please do not hesitate to contact me by phone at (803) 896-6586 or (800) 826-5435 (within SC only), by fax at (803) 896-6245, or by email at dorankm@dhec.sc.gov.

Sincerely,

Karen M. Doran

Karen M. Doran, Hydrogeologist
Northeastern SC Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management

enc: Right of Entry Form

cc: Technical File (no enc)

DHEC/UST/KMD/5.2.05

D · H E C

PROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

BUREAU OF LAND AND WASTE MANAGEMENT
UNDERGROUND STORAGE TANK PROGRAM
2600 Bull Street
Columbia, SC 29201
Telephone (803) 896-6240

RIGHT OF ENTRY

I, JAMES B. WILLIAMS JR **certify that I am the legal owner or the authorized representative for** _____ **(owner) of the property described below. I have witnessed the planned locations / have been provided a sketch map indicating the location(s) of the work to be performed. Permission is hereby granted to George Souther and/or the South Carolina Department of Health and Environmental Control (SCDHEC) and its agents to enter the referenced property for the following purposes:**

Name of Facility (if appropriate) : J B WILLIAMS & SON

Street Address : 300 GOODJOIN RD

City, State, ZIP : CAMPOBELLO SC 29322

1) **Drilling of screening points. The work will be properly abandoned upon completion, and no permanent effects shall remain on site.**

2) **Installing** 1 **monitoring / recovery well(s). I understand that these wells will remain with the property until cleanup is complete. Additionally, SCDHEC or its agents will access the property at reasonable times for measurement and/or collection of samples. The monitoring wells will be properly abandoned upon completion of remediation activities.**

NAME (Please print) : JAMES B. WILLIAMS JR

SIGNATURE James B Williams Jr

WITNESS : Frances N. Williams

DATE _____ **Mo** 4 **Day** 22 **Year** 05

Reference UST Permit #08650

RECEIVED

APR 25 2005

UNDERGROUND STORAGE TANK PROGRAM

KMD

D H E C

PROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

RECEIVED

MAY 03 2005

UNDERGROUND STORAGE TANK PROGRAM

BUREAU OF LAND AND WASTE MANAGEMENT
UNDERGROUND STORAGE TANK PROGRAM
2600 Bull Street
Columbia, SC 29201
Telephone (803) 896-6240

RIGHT OF ENTRY

I, George Souther certify that I am the legal owner or the authorized representative for _____ (owner) of the property described below. I have witnessed the planned locations / have been provided a sketch map indicating the location(s) of the work to be performed. Permission is hereby granted to George Souther and/or the South Carolina Department of Health and Environmental Control (SCDHEC) and its agents to enter the referenced property for the following purposes:

Name of Facility (if appropriate) : Briar Patch

Street Address : 280 Goodjoin Rd.

City, State, ZIP : Campobello, SC. 29322

1) Drilling of screening points. The work will be properly abandoned upon completion, and no permanent effects shall remain on site.

2) Installing _____ monitoring / recovery well(s). I understand that these wells will remain with the property until cleanup is complete. Additionally, SCDHEC or its agents will access the property at reasonable times for measurement and/or collection of samples. The monitoring wells will be properly abandoned upon completion of remediation activities.

NAME (Please print) : George Souther

SIGNATURE : George E Souther

WITNESS : Carolyn Souther

DATE : 5/2/05 Mo _____ Day 2 Year 05

Reference UST Permit #08650

KLD

D. H E C

PROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

RECEIVED MAY 03 2005 UNDERGROUND STORAGE TANK PROGRAM

BUREAU OF LAND AND WASTE MANAGEMENT
UNDERGROUND STORAGE TANK PROGRAM
2600 Bull Street
Columbia, SC 29201
Telephone (803) 896-6240

RIGHT OF ENTRY

I, George E. Souther certify that I am the legal owner or the authorized representative for _____ (owner) of the property described below. I have witnessed the planned locations / have been provided a sketch map indicating the location(s) of the work to be performed. Permission is hereby granted to George Souther and/or the South Carolina Department of Health and Environmental Control (SCDHEC) and its agents to enter the referenced property for the following purposes:

Name of Facility (if appropriate) : Brian Patch

Street Address : 280 Goodyear Rd.

City, State, ZIP : Campobello, SC 29322

1) Drilling of screening points. The work will be properly abandoned upon completion, and no permanent effects shall remain on site.

2) Installing _____ monitoring / recovery well(s). I understand that these wells will remain with the property until cleanup is complete. Additionally, SCDHEC or its agents will access the property at reasonable times for measurement and/or collection of samples. The monitoring wells will be properly abandoned upon completion of remediation activities.

NAME (Please print) : George Souther

SIGNATURE : George E. Souther

WITNESS : Carolyn Souther

DATE : 5 Mo 2 Day 05 Year

Reference UST Permit #08650

KWD

D H E C

PROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

RECEIVED

MAY 03 2005

UNDERGROUND STORAGE TANK PROGRAM

BUREAU OF LAND AND WASTE MANAGEMENT
UNDERGROUND STORAGE TANK PROGRAM
2600 Bull Street
Columbia, SC 29201
Telephone (803) 896-6240

RIGHT OF ENTRY

I, George Souther certify that I am the legal owner or the authorized representative for _____ (owner) of the property described below. I have witnessed the planned locations / have been provided a sketch map indicating the location(s) of the work to be performed. Permission is hereby granted to George Souther and/or the South Carolina Department of Health and Environmental Control (SCDHEC) and its agents to enter the referenced property for the following purposes:

Name of Facility (if appropriate) : Brian Pitch

Street Address : 280 Goodyear Rd.

City, State, ZIP : Campobello, SC. 29322

1) Drilling of screening points. The work will be properly abandoned upon completion, and no permanent effects shall remain on site.

2) Installing _____ monitoring / recovery well(s). I understand that these wells will remain with the property until cleanup is complete. Additionally, SCDHEC or its agents will access the property at reasonable times for measurement and/or collection of samples. The monitoring wells will be properly abandoned upon completion of remediation activities.

NAME (Please print) : George Souther

SIGNATURE : George E. Souther

WITNESS : Carolyn Souther

DATE : 5 Mo 2 Day 05 Year

Reference UST Permit #08650

Kad

D H E C

PROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

RECEIVED

MAY 0 2 2005

UNDERGROUND STORAGE TANK PROGRAM

BUREAU OF LAND AND WASTE MANAGEMENT
UNDERGROUND STORAGE TANK PROGRAM
2600 Bull Street
Columbia, SC 29201
Telephone (803) 896-6240

RECEIVED

MAY 0 6 2005

UNDERGROUND STORAGE TANK PROGRAM

RIGHT OF ENTRY

I, Tina Wolfe **certify that I am the ~~legal owner~~ or the authorized representative for** Annie L Grady Wolfe **(owner) of the property described below. I have witnessed the planned locations / have been provided a sketch map indicating the location(s) of the work to be performed. Permission is hereby granted to George Souther and/or the South Carolina Department of Health and Environmental Control (SCDHEC) and its agents to enter the referenced property for the following purposes:**

Name of Facility (if appropriate) : Residence

Street Address : 275 Goodyear Rd.

City, State, ZIP : Campobello, S.C. 29322

1) **Drilling of screening points. The work will be properly abandoned upon completion, and no permanent effects shall remain on site.**

2) **Installing _____ monitoring / recovery well(s). I understand that these wells will remain with the property until cleanup is complete. Additionally, SCDHEC or its agents will access the property at reasonable times for measurement and/or collection of samples. The monitoring wells will be properly abandoned upon completion of remediation activities.**

NAME (Please print) : Tina Wolfe

SIGNATURE : Tina Wolfe

WITNESS : _____

DATE : 5 **Mo** 04 **Day** 2005 **Year**

Reference UST Permit #08650

D H E C
PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner
Promoting and protecting the health of the public and the environment.

APR 18 2005

MS BECKY ARMS
143 NORTHWAY DR
LANDRUM SC 29356

Re: George Souther's Grocery, 280 Goodjoin Rd., Campobello, SC
UST Permit #08650
Access to property located adjacent to George Souther's Grocery
Spartanburg County

Dear Ms. Arms:

The Underground Storage Tank (UST) Program of the South Carolina Department of Health and Environmental Control has directed George E. Souther, as the party responsible for the release, to perform work to assess a petroleum release reported at the referenced facility. Consultech Environmental, Inc. is currently conducting an environmental assessment, and requires access to your property in order to install temporary screening points and if necessary monitoring wells, so they can fully assess the effects of the petroleum release. You will be contacted regarding the location of the monitoring wells and all efforts will be made to locate the wells near the perimeter of your property.

The monitoring well(s) will be constructed in accordance with the South Carolina Well Standards and Regulations. It will be completed at grade and will have a small diameter manhole cover and concrete pad. It will not interfere with normal usage of your property. The temporary wells 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.

Please sign the enclosed right of entry form and return it to my attention within ten days of the date of this letter. On all correspondence regarding this site, please reference UST Permit #08650. Please feel free to contact me by phone at (803) 896-6586 or (800) 826-5435 (within SC only), by fax at (803) 896-6245, or by email at dorankm@dhec.sc.gov if you have questions or need additional information.

Sincerely,

Karen M. Doran

Karen M. Doran, Hydrogeologist
Northeastern SC Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management

enc: Right of Entry Form
cc: George E. Souther, 280 Goodjoin Rd., Campobello, SC 29322 (w/enc)
Consultech Environmental, 1800 MacLeod Dr., Ste. F, Lawrenceville, GA 30043 (w/enc)
Technical File (w/enc)

DHEC/UST/KMD/04.12.05

D H E C
PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner
Promoting and protecting the health of the public and the environment.

APR 18 2005

MR JAMES B WILLIAMS JR
885 GOODJOIN RD
CAMPOBELLO SC 29322

Re: George Souther's Grocery, 280 Goodjoin Rd., Campobello, SC
UST Permit #08650
Access to property located adjacent to George Souther's Grocery
Spartanburg County

Dear Mr. Williams:

The Underground Storage Tank (UST) Program of the South Carolina Department of Health and Environmental Control has directed George E. Souther, as the party responsible for the release, to perform work to assess a petroleum release reported at the referenced facility. Consultech Environmental, Inc. is currently conducting an environmental assessment, and requires access to your property in order to install temporary screening points and if necessary monitoring wells, so they can fully assess the effects of the petroleum release. You will be contacted regarding the location of the monitoring wells and all efforts will be made to locate the wells near the perimeter of your property.

The monitoring well(s) will be constructed in accordance with the South Carolina Well Standards and Regulations. It will be completed at grade and will have a small diameter manhole cover and concrete pad. It will not interfere with normal usage of your property. The temporary wells 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.

Please sign the enclosed right of entry form and return it to my attention within ten days of the date of this letter. On all correspondence regarding this site, please reference UST Permit #08650. Please feel free to contact me by phone at (803) 896-6586 or (800) 826-5435 (within SC only), by fax at (803) 896-6245, or by email at dorankm@dhec.sc.gov if you have questions or need additional information.

Sincerely,

Karen M. Doran

Karen M. Doran, Hydrogeologist
Northeastern SC Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management

enc: Right of Entry Form
cc: George E. Souther, 280 Goodjoin Rd., Campobello, SC 29322 (w/enc)
Consultech Environmental, 1800 MacLeod Dr., Ste. F, Lawrenceville, GA 30043 (w/enc)
Technical File (w/enc)

DHEC/UST/KMD/04.12.05

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

APR 18 2005

MS ANNIE L FRADY WOLFE
275 GOODJOIN RD
CAMPOBELLO SC 29322

Re: George Souther's Grocery, 280 Goodjoin Rd., Campobello, SC
UST Permit #08650
Access to property located adjacent to George Souther's Grocery
Spartanburg County

Dear Ms. Wolfe:

The Underground Storage Tank (UST) Program of the South Carolina Department of Health and Environmental Control has directed George E. Souther, as the party responsible for the release, to perform work to assess a petroleum release reported at the referenced facility. Consultech Environmental, Inc. is currently conducting an environmental assessment, and requires access to your property in order to install temporary screening points and if necessary monitoring wells, so they can fully assess the effects of the petroleum release. You will be contacted regarding the location of the monitoring wells and all efforts will be made to locate the wells near the perimeter of your property.

The monitoring well(s) will be constructed in accordance with the South Carolina Well Standards and Regulations. It will be completed at grade and will have a small diameter manhole cover and concrete pad. It will not interfere with normal usage of your property. The temporary wells 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.

Please sign the enclosed right of entry form and return it to my attention within ten days of the date of this letter. On all correspondence regarding this site, please reference UST Permit #08650. Please feel free to contact me by phone at (803) 896-6586 or (800) 826-5435 (within SC only), by fax at (803) 896-6245, or by email at dorankm@dhec.sc.gov if you have questions or need additional information.

Sincerely,

Karen M. Doran

Karen M. Doran, Hydrogeologist
Northeastern SC Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management

enc: Right of Entry Form
cc: George E. Souther, 280 Goodjoin Rd., Campobello, SC 29322 (w/enc)
Consultech Environmental, 1800 MacLeod Dr., Ste. F, Lawrenceville, GA 30043 (w/enc)
Technical File (w/enc)

DHEC/UST/KMD/04.12.05

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

February 17, 2005

JAMES WILSON
CONSULTECH ENVIRONMENTAL
1800 MACLEOD DR STE F
LAWRENCEVILLE GA 30043

Re: Tier II Assessments
Contract SB-26281-10/26/04-EMW, Purchase Order # 557699
Telephone Conversation on February 16, 2005
Notice to Proceed

Dear Mr. Wilson:

In accordance with the referenced contract, the Underground Storage Tank Program requests a Tier II Assessment Plan and an associated Cost Agreement for the following facilities:

Site name	ID #	County	Priority	Project Manager
Hilda Garage	00849	Barnwell	2B	John Surber
Shelton Food Store #5	00877	Barnwell	2B	Maia Milenkova
George Souther	08650	Spartanburg	2B	Karen Doran

As outlined in our conversation, please submit the Tier II Assessment Plan and Assessment Component Cost Agreement to my attention within thirty (30) days from the date of this correspondence. Plan implementation shall not commence prior to receipt of written technical and financial approval from the Department. The reports must be submitted to my attention within 90 days subsequent to the date of the approval letter.

Tier II Assessment Plan, Implementation and Report submittal shall be performed in accordance with the referenced contract. Per Section 12, Special Conditions, a late fee of $100.00/day may be levied for each report submitted after the deadline established in the Notice to Proceed. On all correspondence, please reference the pertinent UST Permit number.

Sincerely,

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

enc: Three Notice to Proceed Packages (UST Permits 00849, 00877, & 08650)

cc: Technical File

KD

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

MAY 14 2004

GEORGE SOUTHER
280 GOODJOIN RD
CAMPOBELLO SC 29322

Re: George Souther, 280 Goodjoin Rd., Campobello, SC
UST Permit # 08650
Monitoring Report received April 23, 2004
Spartanburg County

Dear Mr. Souther:

The Underground Storage Tank (UST) Program has reviewed the referenced report submitted by PACE Analytical Services, Inc. (see enclosure). The next scope of work deemed necessary is the completion of a modified Tier II Assessment to define the deep plume.

Per your signed permission form, received on October 16, 2003, the UST Program will continue to procure the services of an environmental contractor on your behalf for the necessary work.

On all correspondence regarding this site, please reference UST Permit #08650. Please feel free to contact me by phone at (803) 896-6586 or (800) 826-5435 (within SC only), by fax at (803) 896-6245, or by email at dorankm@dhec.sc.gov if you have questions or need additional information.

Sincerely,

Karen M. Doran

Karen M. Doran, Hydrogeologist
Northeastern SC Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management

enc: Monitoring Report

cc: Technical File

DHEC/UST/KMD/05.11.04

FIELD ACTIVITY WORKSHEET ORDER

Date of Request: May 11, 2004

Type of Request:
(Please indicate your request with a check mark)

Emergency	(<2 Working Days)	☐
Specific	(1-5 Working Days)	X
Routine	(10 Working Days)	☐

Please specify the type of work to be completed:

Locate public water supply well and take sample (if necessary). Take photographs of site.

Facility Name: **George Souther**

Permit Number: **08650**

Project Manager: Karen Doran

County: Spartanburg

(Field Staff Only)

Date Field Activity Completed: 5/11/04

Completed by Field Staff: K Doran

Date Field Notes Entered into EFIS: 5/11/04

Field Staff Comments:

Public Water supply well taken off line -- took photos.

REMEMBER TO ESTABLISH COST PROPOSALS

PACE CA#: _____ DICK CA#: _____

PALMETTO ENV GROUP CA#: _____

Fill out back of this form. Photocopy, attach a completed CP cover for each CP. Thank you very much!

RECEIVED

OCT 16 2003

UNDERGROUND STORAGE TANK PROGRAM

PERMISSION FORM

UNDERGROUND STORAGE TANK AND PROPERTY OWNER

UST Permit #08650

If you are the owner of the former or existing underground storage tanks and the property owner, please complete this form.

I, George Souther, certify that I am the legal owner of the underground storage tanks and property 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 (SCDHEC) to secure on my behalf contractor services to conduct assessment and corrective action activities as required, and authorize SCDHEC, or a contractor selected by SCDHEC, to enter this property at reasonable times only to accomplish these site rehabilitation tasks. 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 SCDHEC 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 Division of Underground Storage Tank Management in writing.

Name of Facility Briar Patch Gro. Phone # 864-895-1889

Street Address of Facility 280 Gordjon Rd

Town, City, District, Suburb Campobello, SC 29322

Name of nearest intersecting street, road, highway, alley Mt. Lebanon Rd

Is this facility within the city limits? (yes or no) _____

Does a public water or sewer utility service this facility? (yes or no) (water only), if no, please provide the name and phone number of a person that we can contact that can assist in the location of private water and septic tank lines George Souther, phone number 895 3253

Were underground storage tanks previously removed from the ground at this facility? (yes or no) yes If yes, please provide the name of a person we can contact that can assist in the location of the former underground storage tank excavation George Souther Phone number 895 3253

Is the property currently leased or rented to someone? (yes or no) yes. If yes, please provide their name Mr. Manney Mander and phone number _____ and let them know about the pending assessment activities. If vehicles or other mobile structures are parked over the former or existing underground storage tanks, they should be moved before SCDHEC's contractor gets to the site.

NAME of UST/property owner (Please Print): George Souther

Phone Number (home) 895 3253 (work) _____

Signature of UST/property Owner: George E. Souther

Witness: Carolyn A. Souther

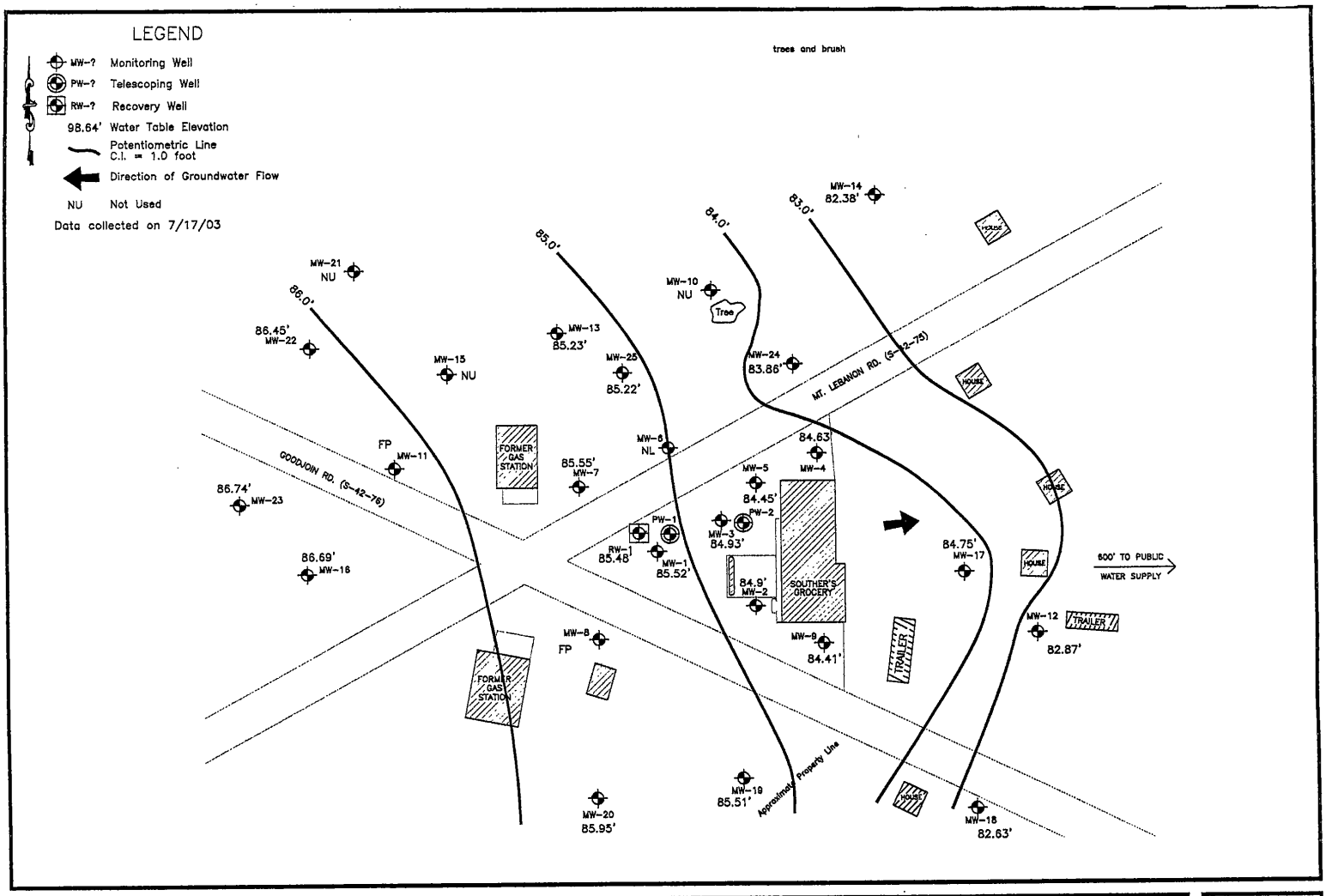
Date: 10/10/03 Month 10th Day 10 Year 03

PA

Name: CAMPOBELLO
Date: 8/6/2003
Scale: 1 inch equals 2000 feet

Location: 035° 03' 45.1" N 082° 11' 00.9" W
Caption: Figure 1 Site Location map
Souther's Grocery
UST Permit # 08650

Copyright (C) 1997, Maptech, Inc.



SCALE: HORZ.: 1" = 90' VERT.: DATUM: HORZ.: VERT.: 0 45 90 GRAPHIC SCALE	FUSS & O'NEILL INC. Consulting Engineers 1419 RICHLAND ST 1st FL, COLUMBIA SC 29201 803.376.8034 www.FandO.com	SOUTHER'S GROCERY POTENTIOMETRIC MAP GOODJOIN RD. AND MT. LEBANON RD. CAMPOBELLO SOUTH CAROLINA	PROJ. No.: 02003315.A10 DATE. 8/03 FIG 3

CTB: LMAN: MS VIEW: UCS:

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

MAR 0 5 2004

MR JED HEAMES
JA JONES ENVIRONMENTAL SERVICES
CHARLESTON NAVAL COMPLEX
1849 AVENUE F
NORTH CHARLESTON SC 29405

Re: **Notice to Proceed**
Bid # SB-21868-3/18/03; PO# 463276

Dear Mr. Heames:

Based on the award of the referenced bid package, enclosed are the information packets to conduct five (5) groundwater-sampling events. The packets contain all necessary information for work to begin. The facility has been assigned an individual Cost Agreement (CA) number as listed below. Please reference the CA number and Purchase Order #463276 on the appropriate invoice submitted for payment against the facility.

UST Permit #	Priority Rank	Facility	County	# wells	UST Project Manager	Parameters-Groundwater	PACE CA#	JA Jones CA#
01204*	2A	LC Smith Groc.	Berkeley	22	S. Block	BTEX, Naph, MTBE, & EDB	21469	21470
14533	2B	Hickman's Groc.	Colleton	9	K. Doran	BTEX, Naph, MTBE, EDB, & Lead	21426	21425
08591	2B	Lil Cricket 205	Spartanburg	8	P. Hydrick	BTEX, Naph, MTBE	21482	21481
08650*	2B	George Souther	Spartanburg	28	K. Doran	BTEX, Naph, MTBE, & Lead	21518	21517
16238	2B	Kay's Country	Spartanburg	15	R. Miner	BTEX, Naph, MTBE, EDB, Nitrate, Sulfate, Ferrous Iron	21302	21303

*** These facilities should be sampled on or before April 16,2004. If sampling is not completed by this date, a late fee of $25 per day may be levied in accordance with Special Condition 15.**

JA Jones Environmental Services will perform services at the sites on behalf of the site's responsible party (RP); however, payment will be made from the SUPERB Account. The site's RP has no obligation for payment for this scope of work. **Please coordinate access to the facility with the property owner**. Contact information has been provided in the information packet. The Bureau grants pre-approval for transportation of drums of groundwater from the referenced sites to a permitted treatment facility. The contaminated groundwater must be properly stored in labeled 55-gallon drums or equivalent containers. The contaminated groundwater must be accepted by the approved treatment facility. There can be no spillage or leakage in transport. A copy of the disposal manifest from the receiving facility that clearly designates the quantity received must be included with the final report.

Please contact me with the sampling schedule before commencing work at these facilities. If you have any questions or need further assistance, please contact me at (803) 896-6397 or thomadl@dhec.sc.gov.

Sincerely,

Debra L. Thoma, Hydrogeologist
State Lead & Field Services Section
Assessment & Corrective Action Division
Underground Storage Tank Program
Bureau of Land & Waste Management
Telephone: (803) 896-6240; Fax (803) 896-6245

enc: Information Packets
Approved Cost Agreements

cc: Sherri Stabel, PACE Analytical Services, 9800 Kincey Ave. Ste. 100, Huntersville, NC, 28078
(w/ Approved Cost Agreements)
Technical/Read File

Approved Cost Agreement 18

Facility: 08650 GEORGE SOUTHER
DORANKM
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
11 ANALYSES						
	GW GROUNDWATER	A	BTEX+NAPTH+MTBE	28.0000	30.00	840.00
		E	LEAD	28.0000	7.50	210.00
				Total Amount		1,050.00

Approved Cost Agreement 17

Facility: 08650 GEORGE SOUTHER
DORANKM
PO Number:

Task / Description	Categories	Item Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB					
		B PERSONNEL	2.0000	59.95	119.90
10 SAMPLE COLLECTION					
		A GROUND WATER	12.0000	19.95	239.40
		D GROUNDWATER NO-PURGE	16.0000	17.95	287.20
17 DISPOSAL					
		A2 WASTEWATER - PUMPING TEST	120.0000	0.50	60.00
			Total Amount		706.50

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

MAR 01 2004

GEORGE SOUTHER
280 GOODJOIN RD
CAMPOBELLO SC 29322

Re: George Souther, 280 Goodjoin Rd., Campobello, SC
UST Permit # 08650
AFVR Report received February 27, 2004
Spartanburg County

Dear Mr. Souther:

On February 18, 2004, Terry Environmental conducted an 8-hour Aggressive Fluid Vapor Recovery event to remove free product from monitoring well MW-6 at the referenced facility. A copy of the report is enclosed for your records. The next scope of work will be a comprehensive ground water sampling event to verify the free product has not returned. You will receive a copy of the results upon review by this Office.

On all correspondence regarding this site, please reference UST Permit #08650. If you have any questions concerning this correspondence, please contact me by phone at (803) 896-6586, (800) 826-5435 (within South Carolina only), by fax at (803) 896-6245, or by email at dorankm@dhec.sc.gov.

Sincerely,

Karen M Doran

Karen M. Doran, Hydrogeologist
State Lead and Field Services Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management

enc: AFVR Event Report

cc: Technical File (w/o enc.)

TERRY ENVIRONMENTAL SERVICES
P.O. BOX 25 • SUMMERVILLE, SC 29484 • 843-873-8200 • WWW.TERRYENVIRONMENTAL.COM

RECEIVED
FEB 2 7 2004
UNDERGROUND STORAGE
TANK PROGRAM

February 26, 2004

Ms. Karen Doran
SCDHEC BLWM UST Program
2600 Bull Street
Columbia, South Carolina 29201

Re: George Souther
280 Goodjoin Rd.
Campobella, South Carolina
Permit ID# 08650; Cost Agreement # 20611

Dear Ms. Doran,

On February 18, 2004 Terry Environmental Services, Inc. (TERRY) performed an eight-hour Aggressive Fluid Vapor Recovery (AFVR) event on monitoring well MW-6 at George Souther in Campobella, South Carolina. The well was pumped for 8 hours. Product thickness was gauged in the well prior to the event. MW-6 had a product thickness of 0.2 feet. A scaled site map is included in the attachments as Figure 1. The stinger pipe was set six inches below the product/water interface. Once pumping began, a magnehelic gauge was used to measure vacuum pressure every thirty minutes at neighboring wells. These wells exhibited no measurable vacuum during the eight-hour AFVR event. Measurements on emissions exiting the stack of the vac truck were also taken on thirty minute intervals and are included in the attachments as Table 1. These measurements include vacuum (on the truck), temperature, velocity, humidity, and volatile concentrations in parts per million. Emission calculations are included as Table 2 in the attachments.

Upon completion of the AFVR event, MW-6 was gauged again, and there was no measurable free product detected in the well. A total of 475 gallons of product and water were recovered during the AFVR event. The disposal manifest is included with the attachments.

Sincerely,

M. Steven Watford Jr.
Environmental Technician

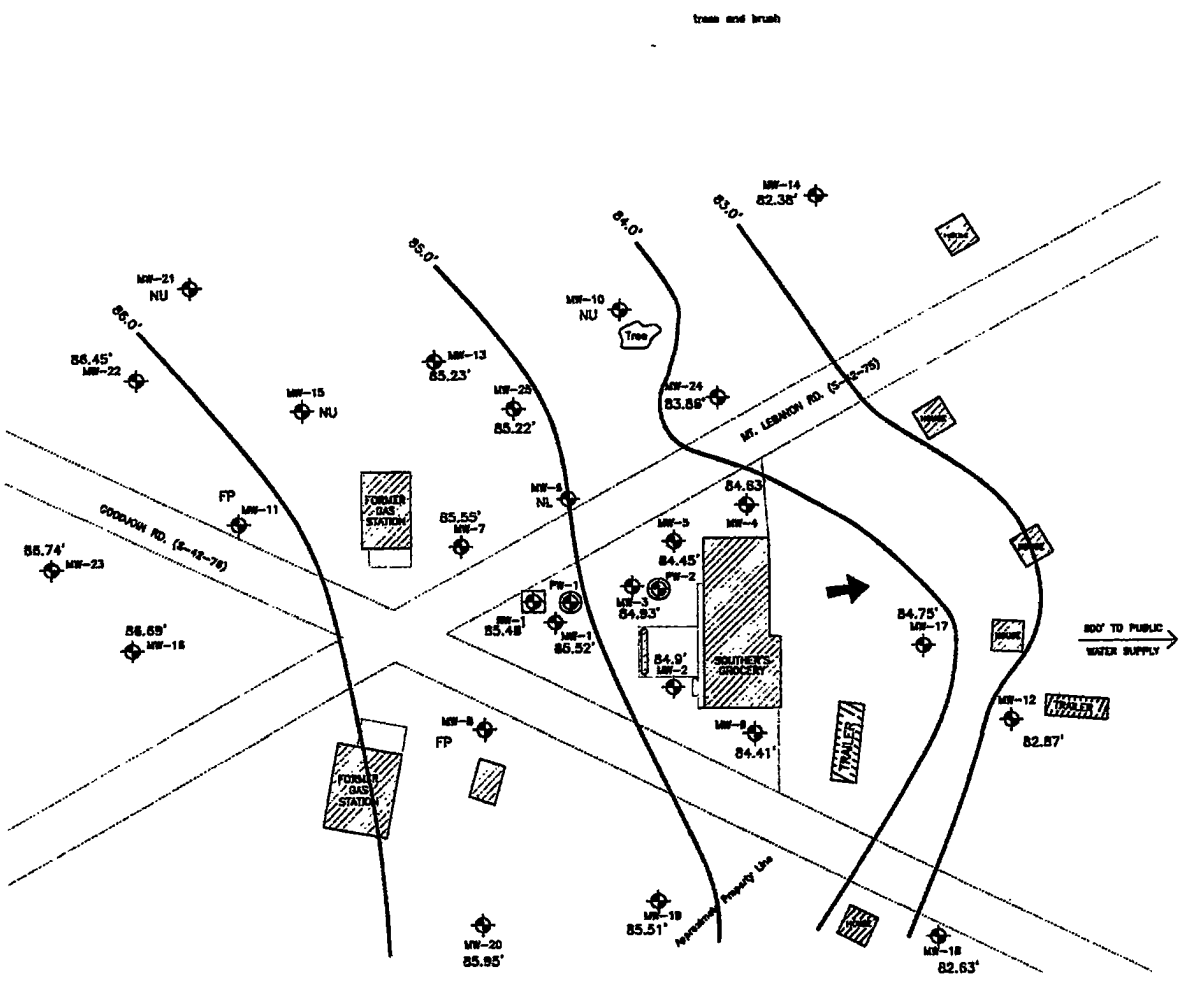
Mark L. Keller P.G.
Vice President

ATTACHMENTS

LEGEND

- MW-? Monitoring Well
- PW-? Telescoping Well
- RW-? Recovery Well
- 88.64' Water Table Elevation
- Potentiometric Line C.I. = 1.0 foot
- Direction of Groundwater Flow
- NU Not Used

Data collected on 7/17/03



TERRY *ENVIRONMENTAL SERVICES*

...providing our clients with the very best environmental services available, actually understanding our Clients' objectives, and making their objectives our own!

P.O. BOX 25 SUMMERVILLE, SOUTH CAROLINA 29484 1-800-325-0605

www.terryenvironmental.com

FIGURE 1
GEORGE SOUTHER
280 GOODJOIN ROAD
CAMPOBELLO, SOUTH CAROLINA
PROJECT # 2105.42
SITE ID# 08650
FEBRUARY 2004

TABLE 1
AFVR EMISSIONS DATA
February 25, 2004

DATE	2/18/2004
SITE NAME	George Souther
PERMIT ID	8650
AVERAGE DEPTH TO GROUND WATER	16.6
DESCRIBE SOIL IN SATURATED ZONE	Unknown
Bws	0.032551478
WELL IDS	MW-6
BLOWER SPECIFICATIONS OF THE VACUUM TRUCK (CFM @ in Hg) - 25	

DRY STANDARD CUBIC FEET PER MINUTE (DSCFM) AIR FLOW CALCULATIONS (Qstd)

Date	Phase	Wells	Time	Vacuum (inches of Hg)	Velocity (ft/min)	Pipe Id (in)	Temp. (F)	Rel.Humid (%)	$PPM_{measured}$ (ppm)
2/18/2004	1	MW-6	7:00	21	615	4	61.5	99	1329
2/18/2004	1	MW-6	7:30	21	615	4	61.5	99	1329
2/18/2004	1	MW-6	8:00	20	673	4	67.3	99	1478
2/18/2004	1	MW-6	8:30	20	673	4	67.3	99	1478
2/18/2004	1	MW-6	9:00	22	712	4	76.2	99	1050
2/18/2004	1	MW-6	9:30	22	712	4	76.2	99	1050
2/18/2004	1	MW-6	10:00	23	796	4	79.6	99	815
2/18/2004	1	MW-6	10:30	23	796	4	79.6	99	815
2/18/2004	1	MW-6	11:00	24	841	4	84.1	99	776
2/18/2004	1	MW-6	11:30	24	841	4	84.1	99	776
2/18/2004	1	MW-6	12:00	22	867	4	86.7	99	745
2/18/2004	1	MW-6	12:30	22	867	4	86.7	99	745
2/18/2004	1	MW-6	13:00	21	884	4	88.4	99	735
2/18/2004	1	MW-6	13:30	21	884	4	88.4	99	735
2/18/2004	1	MW-6	14:00	23	899	4	89.9	99	725
2/18/2004	1	MW-6	14:30	23	899	4	89.9	99	725
2/18/2004	1	MW-6	15:00	20	913	4	91.3	99	710
Average				21.88235294	793.353	4	79.924	99	942.117647

Bws = 0.032551

Qstd = =(60 sec/min)(1-Bws)(V)(A)(Temp deg Rankin)

Qstd = 65.47

PPMmeasured = obtained directly from OVA or TVA

PPMwet = "wet" concentration

PPMdry = "dry" concentration

K = number of carbons in calibration gas (methane = 1)

PPMc = PPMv, volumetric concentration of VOC emissions as carbon, dry basis, at STP

Ccm = mg/dsm^3, mass concentration of VOC emissions as carbon

Mc = 12.01 mg/mg-mole, molecular wt. of carbon

K_3 = 24.07 $dsm^3/10^6$ mg-mole, mass to volume conversion factor at stp

Cc = lb/dscf, mass concentration of VOC emissions as carbon, dry basis, at STP

PMRc = lb/hr, pollutant mass removal rate of VOC's as carbon

PMRg = lb/hr, pollutant mass removal rate of VOC's as gasoline

Mg = 103 mg/mg-mole, molecular wt. of gasoline

Mcg = 89 mg/mg-mole, weight of carbon in gasoline molecule

TABLE 2
AFVR EMISSIONS CALCULATIONS
February 25, 2004

SITE NAME	George Souther
PERMIT ID	8650
AVERAGE DEPTH TO GROUND WATER	16.6
DESCRIBE SOIL IN SATURATED ZONE	Unkown
Bwsw	0.021
Bws	0.032551
WELL IDS	MW-6
BLOWER SPECIFICATIONS OF THE VACUUM TRUCK (CFM @ in Hg) - 25	

EMISSION CALCULATION

Elapsed time	Flow	$PPM_{measured}$	PPM_d	PPM_c	K	C_{cm}	C_c	PMR_c	PMR_g	PMR_g
(min)	(DSCFM)	(ppm)			(Hexane)	(mg/dsm^3)	(lb/dscf)	(lb/hr)	(lb/hr)	(gal/hr)
0	65.47	1329.00	1373.72	8242.30	6	4112.59	2.567E-04	1.01	1.17	0.19
15	65.47	1329.00	1373.72	8242.30	6	4112.59	2.567E-04	1.01	1.17	0.19
45	65.47	1478.00	1527.73	9166.38	6	4573.67	2.855E-04	1.12	1.30	0.21
75	65.47	1478.00	1527.73	9166.38	6	4573.67	2.855E-04	1.12	1.30	0.21
105	65.47	1050.00	1085.33	6511.97	6	3249.22	2.028E-04	0.80	0.92	0.15
135	65.47	1050.00	1085.33	6511.97	6	3249.22	2.028E-04	0.80	0.92	0.15
165	65.47	815.00	842.42	5054.53	6	2522.02	1.574E-04	0.62	0.72	0.11
195	65.47	815.00	842.42	5054.53	6	2522.02	1.574E-04	0.62	0.72	0.11
225	65.47	776.00	802.11	4812.66	6	2401.33	1.499E-04	0.59	0.68	0.11
255	65.47	776.00	802.11	4812.66	6	2401.33	1.499E-04	0.59	0.68	0.11
285	65.47	745.00	770.07	4620.40	6	2305.40	1.439E-04	0.57	0.65	0.10
315	65.47	745.00	770.07	4620.40	6	2305.40	1.439E-04	0.57	0.65	0.10
345	65.47	735.00	759.73	4558.38	6	2274.46	1.420E-04	0.56	0.65	0.10
375	65.47	735.00	759.73	4558.38	6	2274.46	1.420E-04	0.56	0.65	0.10
405	65.47	725.00	749.39	4496.36	6	2243.51	1.401E-04	0.55	0.64	0.10
435	65.47	725.00	749.39	4496.36	6	2243.51	1.401E-04	0.55	0.64	0.10
465	65.47	710.00	733.89	4403.34	6	2197.09	1.372E-04	0.54	0.62	0.10
Average	65.46708	942.12	973.82	5842.90	6	2915.38	1.820E-04	0.71	0.83	0.13

Total gallons of gasoline recovered from emissions = 1.03
Total pounds of gasoline recovered from emissions = 6.41
(THIS NUMBER REPRESENTS THE GALLONS RECOVERED VIA VAPORS, NOT TOTAL LIQUIDS)

Bwsw - water vapor % by wieght, i.e. pounds of water per pound of dry air, derived from the psychrometric chart (temp Vs relative hum)
Bws - water vapor by volume

EQUATIONS

PPMw = PPM measured
PPMd = (PPMw) / (1-Bws)
PMRc = Cc (Qstd) (60 min/hr)
PMRg = (PMRc) (Mg/Mcg)
PPMc = (PPM) (K)
Ccm = PPMc (Mc/K_3)
Cc = Ccm (62.43 E -9 lb-m^3/mg-ft^3)

Q_{std} = (60 sec/min) (1- B_{ws}) (velocity) (Pipe ID sq.ft.) [(528 °R / (Temp. + 460)] (LISTED AS FLOW ABOVE)
Bws = (B_{WSW} / 18 lb-mole H_2O) / [(1/28.84 lb-mole dry air) + B_{wsw} / 18 lb-mole H_2O)]

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. 2445-2

2. Page 1 of 1

3. Generator's Name and Mailing Address
GEORGE SOUTHER
280 GOODJOIN ROAD
CAMPOBELLO, SC

TERRY ENVIRO
800-325-0606
Chris Martin

4. Generator's Phone ( )

5. Transporter 1 Company Name
NU-WAY INDUSTRIAL SVC., INC.

6. US EPA ID Number
SCD987598331

A. Transporter's Phone
803-957-9175

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
NU-WAY ENVIRONMENTAL SERVICES
1741 CALKS FERRY ROAD
LEXINGTON, SC ~~29750~~ 29073

10. US EPA ID Number

C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON REGULATED NON HAZORDOUS MATERIAL (WELL WATER)	001	TT	475	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
EMERGENCY CONTACT. CHRIS RABLEY 803-957-9175
NIS JOB#24160

16. 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.

Printed/Typed Name | Signature | Month | Day | Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: TC Sox | Signature: TC Sox | Month 02 | Day 18 | Year 04

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Month | Day | Year

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL - RETURN TO GENERATOR

George Souther
2105.42

Quantity	Item	Unit Price	Amount
1	Mob/Demob	$130.00	$130.00
475	Disposal	$0.40	$190.00
1	8 hr. AFVR	$1240.00	$1240.00
		TOTAL	**$ 1560.00**

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

FEB 23 2004

MANNY MANDER
280 GOODJOIN RD
CAMPOBELLO SC 29322

Re: George Souther, 280 Goodjoin Rd., Campobello, SC
UST Permit # 08650
Contractor List requested February 18, 2004
Spartanburg County

Dear Mr. Mander:

In response to your request for a South Carolina certified contractor list, the Underground Storage Tank (UST) Program has enclosed the referenced list.

Please note, if monitoring well PW-1 is located, please contact the UST Program with exact location measurements. If PW-1 cannot be located, this well should be replaced to a depth of 47 feet with a screened interval of 5 feet. Please reference previous correspondence regarding monitoring well installation details and guidelines.

On all correspondence regarding this site, please reference UST Permit #08650. Please feel free to contact me by phone at (803) 896-6586 or (800) 826-5435 (within SC only), by fax at (803) 896-6245, or by email at dorankm@dhec.sc.gov if you have questions or need additional information.

Sincerely,

Karen M. Doran

Karen M. Doran, Hydrogeologist
State Lead and Field Services Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management

enc: South Carolina certified contractor list

cc: Technical File (w/out enc.)

DHEC/UST/KMD/02.18.04

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

FEB 10 2004

GEORGE SOUTHER
280 GOODJOIN RD
CAMPOBELLO SC 29322

Re: George Souther, 280 Goodjoin Rd., Campobello, SC
UST Permit # 08650
Monitoring Report received January 27, 2004
Spartanburg County

Dear Mr. Souther:

The Underground Storage Tank (UST) Program has reviewed the referenced report submitted by PACE Analytical Services, Inc. (see enclosure).

The sampling contractor reported that monitoring well PW-1 could not be located or was destroyed. As additional assessment activities are necessary, **it is your responsibility to either uncover or reinstall the monitoring well.** Funds from the State Underground Petroleum Environmental Response Bank (SUPERB) Account originally paid for these wells; therefore, replacement costs cannot be paid from the Account.

Approval for the replacement of the monitoring wells is enclosed. Well replacement activities at the site should commence immediately upon receipt of this letter. Please have your consultant submit the monitoring well logs and DHEC 1093 forms for the replacement wells to the Department **within 60 days of the date of this letter**. A report documenting the repair/reinstallation of the monitoring well should be addressed to my attention.

The Bureau grants preapproval for transportation of virgin petroleum contaminated water and soil from the referenced sites to an approved disposal facility. The contaminated soil and/or groundwater must be properly stored in labeled containers. The contaminated soil and/or groundwater must be accepted by the approved treatment facility. There can be no spillage or leakage in transport. 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 final report. If the levels of petroleum contamination based on laboratory analysis are below risk-based screening levels, please contact the project manager for approval to dispose of soil and/or groundwater on site. The SUPERB Account will not compensate transportation or treatment of clean soil and/or groundwater.

On all correspondence regarding this site, please reference UST Permit #08650. Please feel free to contact me by phone at (803) 896-6586 or (800) 826-5435 (within SC only), by fax at (803) 896-6245, or by email at dorankm@dhec.sc.gov if you have questions or need additional information.

Sincerely,

Karen M. Doran

Karen M. Doran, Hydrogeologist
State Lead and Field Services Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management

enc: Monitoring Report
Monitoring Well Approval (MWA)

cc: Technical File (w/ MWA)

DHEC/UST/KMD/02.5.04

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

Date of Issue: February 5, 2004 Approval No.: UMW-18128

Approval is hereby granted to: George E. Souther
UST Permit #: 08650
Facility: George Souther, 280 Goodjoin Rd., Campobello, SC
County: Spartanburg

This approval is for the construction of one (1) permanent monitoring well in accordance with the construction plans and technical specifications outlined in the SC Well Standards and Regulations. The well is to be constructed within the surficial aquifer for the intended purpose of monitoring ground-water quality and/or water level at the referenced facility. Approval is provided with the following conditions:

1. The latitude and longitude, surveyed elevations, boring and/or geologist logs and actual (as built) construction details for each well be submitted to my attention as part of the Monitoring Well Installation Report.

2. Each well shall be labeled with an identification plate constructed of a durable material affixed to the casing or surface pad where it is readily visible. The plate shall provide monitoring well I.D.#, date of construction, static water level, and driller name and state certification #.

3. Temporary wells must be properly abandoned within 30 days from the date of installation.

4. Well construction and sampling derived waste including, but not necessarily limited to, drill cuttings, drilling fluids, development and purge water should be managed properly and in compliance with applicable requirements. If containerized, each vessel should be clearly labeled with regard to contents, source, and date of activity.

5. A minimum of forty-eight (48) hours prior to initiation of drilling activities, please provide notice to Karen Doran at (803) 896-6586 or dorankm@dhec.sc.gov.

6. Please provide ground-water quality analytical data (chemical analysis and/or water level(s)) associated measurements (i.e., in-situ field measurements) to my attention with the Assessment Report.

7. Monitoring wells shall be installed by a permanently licensed well driller certified by the State of South Carolina.

This approval is pursuant to the provisions of Section 44-55-40 of the 1976 South Carolina Code of Laws and the Department of Health and Environmental Control Regulations R.61-71. **Please remember to have a copy of this approval on the site during well installation.**

Approved by:

Karen M. Doran

Karen M. Doran, Hydrogeologist
State Lead & Field Services Section
Assessment & Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management

cc: Technical File

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

DEC 0 5 2003

JASON TERRY
TERRY ENVIRONMENTAL INC
PO BOX 25
SUMMERVILLE SC 29484

Re: **Notice to Proceed**
George Souther, 280 Goodjoin Rd., Campobello, SC
UST Permit # 08650, CA # 20611
SB-19572-05/28/02-EMW; PO # 413548
BAQC UST Modeling Information received November 26, 2003
Spartanburg County

Dear Mr. Terry:

The Underground Storage Tank (UST) Program of the South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed the referenced correspondence. You may commence with the Aggressive Fluid Vapor Recovery event at the referenced facility. The final report and invoice should be submitted on or before January 15, 2004. If upon mobilization to the site, the monitoring well does not contain measurable free phase product, the AFVR Event should not be conducted and the UST Program contacted immediately.

Cost agreement (CA) # 20611 has been approved in the amount shown on the referenced cost agreement spreadsheet and will be kept on file so that compensation can begin. The SCDHEC reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with bid number SB-19572-05/28/02-EMW. 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 the work.

Future invoices and/or other criteria included therein must comply with current State Underground Petroleum Environmental Response Bank (SUPERB) criteria per Section 44-2-20(2). Please reference Cost Agreement #20611 on all pertinent invoices and correspondence. Please note that Sections 44-2-110(4) and 44-2-130(B) of the SUPERB Statute state that no costs will be allowed (considered for payment) unless prior approval from the Department is obtained. If for any reason there is a change in this cost agreement, any associated changes to this cost agreement must be pre-approved by this Department in order for Terry Environmental, Inc. to seek future cost compensation. Any item(s) not clearly or completely addressed in the report (disposal manifest for generated ground water, etc.) WILL NOT be compensated by the SUPERB Account.

The Department grants pre-approval for transportation of free phase product and petroleum contaminated groundwater from the referenced site to a permitted treatment facility. The free product and contaminated groundwater must be accepted by the approved treatment facility. There can be no spillage or leakage in transport. A copy of the disposal manifest from the receiving facility that clearly designates the quantity received must be included in the report.

On all correspondence regarding this site, please reference the UST Permit #08650 and Cost Agreement # 20611. If you have questions concerning this correspondence, or would like to submit additional information, please contact me by phone at (803) 896-6586, by fax at (803) 896-6245, or by email at dorankm@dhec.sc.gov.

Sincerely,

Karen M Doran

Karen M. Doran, Hydrogeologist
State Lead and Field Services Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management

cc: George Souther, 280 Goodjoin Rd., Campobello, SC 29322
Appalachia III District EQC
Technical File

SCDHEC/UST/KMD/120403

TERRY ENVIRONMENTAL SERVICES
801 TRAVELERS BLVD • SUITE C • SUMMERVILLE, SC 29485 • 843-873-8200 • WWW.TERRYENVIRONMENTAL.COM

November 25, 2003

Mr. Lee Monts
SCDHEC BLWM UST Program
2600 Bull Street
Columbia, South Carolina 29201

Re: Address Change for Terry Environmental Services, Inc.

Dear Mr. Monts,

We have changed our address from PO Box 41784, Charleston, SC 29423 to PO Box 25, Summerville, SC 29484 effective immediately. Please update our account with the Department as soon as possible.

Should you have any questions, please contact us at 843-873-8200.

Sincerely,

Jason A. Terry, PG
President

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NOV 26 2003
UNDERGROUND STORAGE
TANK PROGRAM

TERRY ENVIRONMENTAL SERVICES
801 TRAVELERS BLVD • SUITE C • SUMMERVILLE, SC 29485 • 843-873-8200 • WWW.TERRYENVIRONMENTAL.COM

November 24, 2003

Ms. Karen M. Doran
SCDHEC BLWM UST Program
2600 Bull Street
Columbia, South Carolina 29201

Re: Aggressive Fluid Recovery Events
Permit ID 08650; CA # 20611

Dear Ms. Doran,

Attached are the required Bureau of Air Quality UST Modeling Forms for the referenced site. Also attached are VOC emission calculations for each site based on the worst case concentration for free phase petroleum hydrocarbons. We will wait for approval from you before proceeding with the work.

Should you have any questions, please contact us at 843-873-8200.

Sincerely,

Mark L. Keller, PG
Project Manager

Jason A. Terry, PG
President

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NOV 26 2003
UNDERGROUND STORAGE
TANK PROGRAM

BUREAU OF LAND AND WASTE MANAGEMNET
UNDERGROUND STORAGE PROGRAM

Phone (803) 898-4350 Fax (803) 898-4330

BAQC UST Modeling Information

PLEASE FILL OUT COMPLETELY

FACILITY/COMPANY NAME: George Souther UST Permit # 08650

CLEANUP LOCATION: 280 Goodjoing Rd., Campobello, South Carolina
TYPE OF OPERATION (i.e. AIR STRIPPER): Aggressive Fluid Vapor Recovery
CONTACT: Mark L. Keller, Terry Environmental Services, Inc. 843-873-8200

SITE MAPS

Please include a scaled plot plan of the facility location that clearly shows distances from the stack to the property boundaries. All buildings and/or structures within a radius of 5 stack heights (measured from the stack/vent) shall be incorporated on this plot plan and information on each building and/or structure=s height, width, and length shall also be included.

STACK INFORMATION

HEIGHT ABOVE GROUND: 15 FEET; DIAMETER: 0.5 FEET

TEMPERATURE: 150 F; VELOCITY: 60 FEET/SECOND

AIR TOXIC INFORMATION

AIR TOXIC EMITTED (i.e. BENZENE)	CHEMICAL ABSTRACT SERVICE (CAS) NUMBER	EMISSION RATE LB/HR
A) Benzene	71-43-2	0.16
B) Toluene	108-88-3	0.26
C) Ethylbenzene	100-41-4	0.28
D) Xylenes	108-38-3	0.28
E) Naphthalene	91-20-3	0.00239
F) MTBE	1634-04-4	4.2

Please submit this completed sheet with scaled site maps to _____, project manager at the Underground Storage Tank Program, 2600 Bull Street, Columbia, SC 29201.

ANNUAL VOC EMISSIONS CALCULATION WORKSHEET

PROJECT: GEORGE SOUTHER, SCDHEC ID # 08650
PROJECT LOCATION: CAMPOBELLO, SOUTH CAROLINA
PROJECT DURATION: 8 HOURS/DAY X 1 EVENT = 8 HOURS TOTAL
EMISSION CALCULATIONS: WORST CASE

Pollutant	Maximum Concentration	Molecular Weight	Maximum Flow (scfm) [2]	Conversation Factor	Emissions (lbs/hr) [3]	Emmissions (lbs/yr)
Benzene	226	78.1	60	1.56E-07	0.16	1.32
Toluene	301	92.1	60	1.56E-07	0.26	2.07
Ethylbenzene	280	106.16	60	1.56E-07	0.28	2.22
Xylenes	278	106.2	60	1.56E-07	0.28	2.21
MTBE	5110	88	60	1.56E-07	4.20	33.61
Naphthalene	2	128	60	1.56E-07	0.00	0.02
				Total	5.18	41.45

Notes:
1. ppm = parts per million
2. Scfm = standard cubic feet per minute
3. lbs/hr = pounds per hour

Total Annual VOC Emissions (worst case):

Total VOC (lbs/hr)	x	Total Hours/yr	=	Emissions (lbs/yr)
5.18E+00	x	8	=	41.45

D H E C

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C. Earl Hunter, Commissioner

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

NOV 21 2003

MR JED HEAMES
JA JONES ENVIRONMENTAL SERVICES
CHARLESTON NAVAL COMPLEX
1849 AVENUE F
NORTH CHARLESTON SC 29405

Re: **Notice to Proceed**
Bid # SB-21868-3/18/03; PO# 463276

Dear Mr. Heames:

Based on the award of the referenced bid package, enclosed are the information packets to conduct five (5) groundwater-sampling events. The packets contain all necessary information for work to begin. The facility has been assigned an individual Cost Agreement (CA) number as listed below. Please reference the CA number and Purchase Order #463276 on the appropriate invoice submitted for payment against the facility.

UST Permit #	Priority Rank	Facility	County	# wells	UST Project Manager	Parameters-Groundwater	PACE CA#	JA Jones CA#
08650	2B	George Souther	Spartanburg	28	K. Doran	BTEX, Naph, MTBE, & Lead	20615	20614
16238*	2B	Kay's Country Corner	Spartanburg	15	R. Miner	BTEX, Naph, MTBE, & EDB	20633	20634
05437	3A	Crolley's Grocery	Kershaw	11	S. Block	BTEX, Naph, MTBE, & EDB	20671	20672
14382	2B	McElveen's Colonial	Clarendon	9	S. Block	BTEX, Naph, MTBE	20612	20613
01275	2B	Keith's Exxon	Calhoun	13	S. Block	BTEX, Naph, MTBE	20609	20610

*** These facilities should be sampled on or before December 31, 2003. If sampling is not completed by this date, a late fee of $25 per day may be levied in accordance with Special Condition 15.**

JA Jones Environmental Services will perform services at the sites on behalf of the site's responsible party (RP); however, payment will be made from the SUPERB Account. The site's RP has no obligation for payment for this scope of work. **Please coordinate access to the facility with the property owner**. Contact information has been provided in the information packet. The Bureau grants pre-approval for transportation of drums of groundwater from the referenced sites to a permitted treatment facility. The contaminated groundwater must be properly stored in labeled 55-gallon drums or equivalent containers. The contaminated groundwater must be accepted by the approved treatment facility. There can be no spillage or leakage in transport. A copy of the disposal manifest from the receiving facility that clearly designates the quantity received must be included with the final report.

Please contact me with the sampling schedule before commencing work at these facilities. If you have any questions or need further assistance, please contact me at (803) 896-6397 or thomadl@dhec.sc.gov.

Sincerely,

Debra L. Thoma

Debra L. Thoma, Hydrogeologist
State Lead & Field Services Section
Assessment & Corrective Action Division
Underground Storage Tank Program
Bureau of Land & Waste Management
Telephone: (803) 896-6240; Fax (803) 896-6245

enc: Information Packets
Approved Cost Agreements

cc: Sherri Stabel, PACE Analytical Services, 9800 Kincey Ave. Ste. 100, Huntersville, NC, 28078
(w/ Approved Cost Agreements)
Technical/Read File

Approved Cost Agreement ^0615

Facility: 08650 GEORGE SOUTHER

DORANKM

PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
11 ANALYSES						
	GW GROUNDWATER	A	BTEX+NAPTH+MTBE	28.0000	30.00	840.00
		E	LEAD	28.0000	7.50	210.00
				Total Amount		1,050.00

Approved Cost Agreement 20614

Facility: 08650 GEORGE SOUTHER
DORANKM
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB						
		B	PERSONNEL	2.0000	59.95	119.90
10 SAMPLE COLLECTION						
		A	GROUND WATER	12.0000	19.95	239.40
		D	GROUNDWATER NO-PURGE	16.0000	17.95	287.20
17 DISPOSAL						
		A2	WASTEWATER - PUMPING TEST	120.0000	0.50	60.00
				Total Amount		706.50

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C. Earl Hunter, Commissioner
Promoting and protecting the health of the public and the environment.

NOV 2 0 2003

JASON TERRY
TERRY ENVIRONMENTAL INC
PO BOX 41784
CHARLESTON SC 29423

Re: George Souther, 280 Goodjoin Rd., Campobello, SC
UST Permit # 08650, CA # 20611
SB-19572-05/28/02-EMW; PO # 413548
Spartanburg County

Dear Mr. Terry:

An 8-hour Aggressive Fluid Vapor Recovery event is needed to remove free product from monitoring wells (MW-8 and MW-11) at the referenced facility. A Bureau of Air Quality UST Modeling Form shall be completed and submitted to my attention **within thirty days from the date of this correspondence.** Upon review, you will receive a Notice to Proceed. The AFVR event shall not commence prior to receipt of this Notice to Proceed. Upon mobilization to the site, if there is no product present, the AFVR event should not be conducted and notification should be given to the UST Program. **Please note, free product has historically been found in monitoring wells MW-2, MW-5, MW-6, and RW-1.** The Underground Storage Tank (UST) Program requires that all wells at this facility be gauged for free product. Any wells with free product should be included in the AFVR event.

A cost agreement (CA) # 20611 has been approved in the amount shown on the enclosed cost agreement spreadsheet and will be kept on file so that compensation can begin. **The South Carolina Department of Health and Environmental Control (SCDHEC) reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with bid number SB-19572-05/28/02-EMW.** 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 the work.

The Department grants pre-approval for transportation of free phase product and petroleum contaminated groundwater from the referenced site to a permitted treatment facility. The free product and contaminated groundwater must be accepted by the approved treatment facility. There can be no spillage or leakage in transport. A copy of the disposal manifest from the receiving facility that clearly designates the quantity received must be included in the report.

A copy of the approved assessment cost agreement is enclosed for your information. Future invoices and/or other criteria included therein must comply with current State Underground Petroleum Environmental Response Bank (SUPERB) criteria per Section 44-2-20(2). Please reference Cost Agreement #20611 on all pertinent invoices and correspondence.

Please note that Sections 44-2-110(4) and 44-2-130(B) of the SUPERB Statute state that no costs will be allowed (considered for payment) unless prior approval from the Department is obtained. If for any reason there is a change in this cost agreement, any associated changes to this cost agreement must be pre-approved by this Department in order for Terry Environmental, Inc. to seek future cost compensation.

Any item(s) not clearly or completely addressed in the report (disposal manifest for generated ground water, etc.) WILL NOT be compensated by the SUPERB Account.

On all correspondence regarding this site, please reference the UST Permit #08650 and Cost Agreement # 20611. If you have questions concerning this correspondence, or would like to submit additional information, please contact me by phone at (803) 896-6586, by fax at (803) 896-6245, or by email at dorankm@dhec.sc.gov.

Sincerely,

Karen M Doran

Karen M. Doran, Hydrogeologist
State Lead and Field Services Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management

enc: Approved Cost Agreement # 20611
Bureau of Air Quality UST Modeling Form
Information Packet

cc: George Souther, 280 Goodjoin Rd., Campobello, SC 29322 (w/ out enclosures)
Upper Savannah District EQC (w/ out enclosures)
✓ Technical File (w/ out enclosures)

RECEIVED

OCT 16 2003

UNDERGROUND STORAGE TANK PROGRAM

PERMISSION FORM

UNDERGROUND STORAGE TANK AND PROPERTY OWNER

UST Permit #08650

If you are the owner of the former or existing underground storage tanks and the property owner, please complete this form.

I, George Souther, certify that I am the legal owner of the underground storage tanks and property 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 (SCDHEC) to secure on my behalf contractor services to conduct assessment and corrective action activities as required, and authorize SCDHEC, or a contractor selected by SCDHEC, to enter this property at reasonable times only to accomplish these site rehabilitation tasks. 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 SCDHEC 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 Division of Underground Storage Tank Management in writing.

Name of Facility Briar Patch Gro. Phone # 864-895-1883

Street Address of Facility 280 Gordjon Rd

Town, City, District, Suburb Campobello, SC 29322

Name of nearest intersecting street, road, highway, alley Mt. Lebanon Rd

Is this facility within the city limits? (yes or no) _____

Does a public water or sewer utility service this facility? (yes or no) (water only), if no, please provide the name and phone number of a person that we can contact that can assist in the location of private water and septic tank lines George Souther, phone number 895 3253

Were underground storage tanks previously removed from the ground at this facility? (yes or no) yes If yes, please provide the name of a person we can contact that can assist in the location of the former underground storage tank excavation George Souther Phone number 895 3253

Is the property currently leased or rented to someone? (yes or no) yes. If yes, please provide their name Mr. Mannee Mander and phone number _____ and let them know about the pending assessment activities. If vehicles or other mobile structures are parked over the former or existing underground storage tanks, they should be moved before SCDHEC's contractor gets to the site.

NAME of UST/property owner (Please Print): George Souther

Phone Number (home) 895 3253 (work) _____

Signature of UST/property Owner: George E. Souther

Witness: Carolyn A. Souther

Date: 10/10/03 Month 10th Day 10 Year 03

PA

D H E C
PROMOTE PROTECT PROSPER
2600 Bull Street
Columbia, SC 29201-1708

UNDERGROUND STORAGE ___ K PROGRAM
BUREAU OF LAND AND WASTE MANAGEMENT

Phone (803) 896-6240 Fax (803) 896-6245

SEP 18 2003

MR GEORGE SOUTHER
280 GOODJOIN RD
CAMPOBELLO SC 29322-9187

Re: Souther's Grocery, Hwy 4275 & 4276, Little Cicagro, South Carolina
UST Permit # 08650
Release reported December 31, 1991
Assessment Report received August 25, 2003
Spartanburg County

Dear Mr. Souther:

The Underground Storage Tank (UST) Program of the South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed the referenced Assessment Report submitted by Fuss & O'Neill, Inc.

Monitoring wells were installed as part of the assessment. The results of the investigation reveal the presence of chemicals of concern (CoC) in excess of calculated site-specific target levels. The next scope of work to be performed at this site is Active Corrective Action to ensure there is no potential impact to human health or the environment.

Funds from the State Underground Petroleum Environmental Response Bank (SUPERB) Account will soon be available for implementation of an acceptable method of corrective action. The selected technology must reduce the petroleum CoC concentrations to site-specific target levels determined by the Department. These concentrations will be listed in the Corrective Action Solicitation. All rehabilitation activities associated with a UST release must be performed by a SCDHEC certified site rehabilitation contractor as required by SUPERB Site Rehabilitation and Fund Access Regulations, R.61-98.

As required in R.61-98, Section II.B.3.a, the UST owner or operator is required to develop and implement a reasonable, cost-effective response for soil and/or groundwater contamination. In order to assist you to determine the clean-up technology, a reasonable time frame and all associated costs, the Department will prepare a technical specification package which will specify site specific clean-up levels and mail them to you. In addition to the solicitations you may personally seek, the Department will announce the request for solicitations in the South Carolina Business Opportunities, a bi-weekly state government publication. This announcement will clearly indicate that the UST owner/operator will make the contractor selection to implement an accepted method of corrective action at a reasonable cost. If you wish to utilize this option and select the contractor to perform the corrective actions, please call me within 14 days of the date of this letter and return the enclosed Active Corrective Action Options Form within 30 days. Should you select this option, the

Department strongly suggests that a written contract between you and the selected contractor be developed following the completion of the solicitation process. The only parties to this contract would be you and the contractor you choose. Since the Department's only function would be to monitor the corrective action activities, rather than perform and/or oversee the associated activities, the Department would not be party to your contract.

If you prefer, the UST Program can directly procure a contractor to perform corrective action activities on your behalf. If you wish to utilize this option and relinquish the right to choose the contractor, please call me within 14 days of the date of this letter to inform of your preference and return the enclosed Permission and Right-of-Entry forms within 30 days. Please understand that under either option the site rehabilitation contractor must provide a performance bond or an irrevocable letter of credit and you remain responsible for completion of site rehabilitation activities.

On all correspondence or inquiries regarding this project, please reference **UST Permit #08650**. If you have any questions, please contact me at (803) 896-6633 or (800) 826-5435 (within South Carolina only).

Sincerely,

Paula Anderson

Paula Anderson, Hydrogeologist
Owner/Operator Support Section
Assessment and Corrective Action Division

enc: Corrective Action Guidance Document
Active Corrective Action Options Form
Permission / Right of Entry Forms

cc: Technical File

SCDHEC/UST/091503

Fuss & O'Neill Inc. *Consulting Engineers*
1419 Richland Street
Columbia, SC 29201
TEL 803 376-6034 FAX 803 376-6035
INTERNET: www.FandO.com

Other Offices:
Greenville, North Carolina
Manchester, Connecticut
Trumbull, Connecticut
Providence, Rhode Island
West Springfield, Massachusetts

FAX TRANSMITTAL SHEET

This facsimile and the information it contains are intended to be a confidential communication only to the person or entity to which it is addressed. If you have received this facsimile in error, please notify us by telephone and return the original fax to this office by mail.

RECEIVED
JUL 1 0 2003
Underground Storage
Tank Program

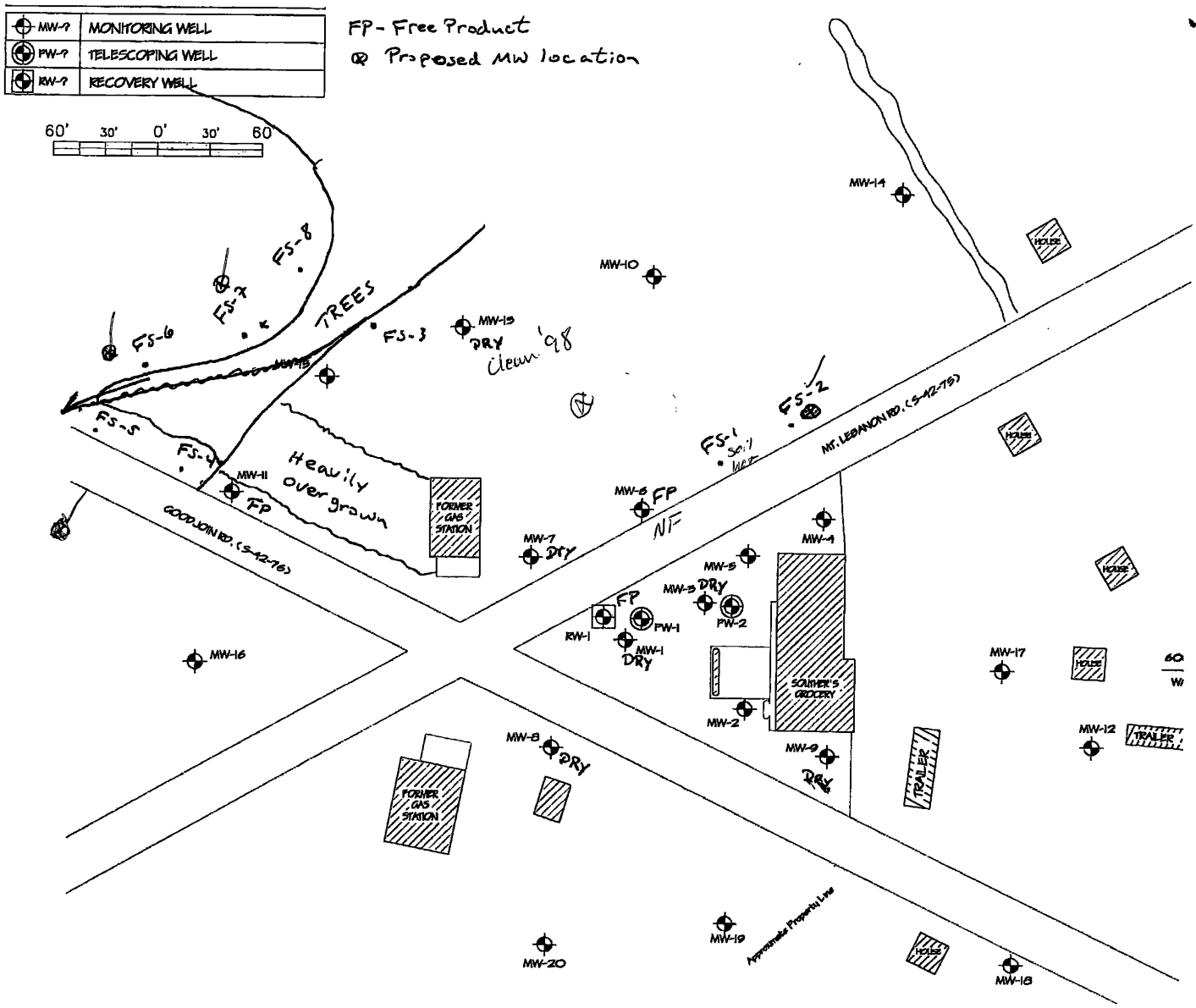
DATE:	July 10, 2003
TO:	Paula Anderson
COMPANY:	SCDHEC
FAX NO.:	896-6245
TELEPHONE NO.:	896-6633
FROM:	Jeremy Grant
JOB NO.:	02003315.A10
RE:	Southers' Grocery (UST Permit #08650)
NO. OF PAGES:	3 (includes cover sheet)

COMMENTS:
Lee,
Please find enclosed the OVA results from the field screening points and a map displaying the locations of the points. Also on the map are proposed permanent monitor well locations. Please call Brad Defee or myself at 376-6034 once you've had a chance to review this information.

Sincerely,

Jeremy Grant

Jeremy Grant, P.G


MW-? MONITORING WELL
PW-? TELESCOPING WELL
RW-? RECOVERY WELL
FP - Free Product
Proposed MW location
60' 30' 0' 30' 60
FS-8
FS-7
FS-6
FS-5
FS-4
FS-3
FS-2
FS-1
TREES
Heavily overgrown
Clean '98
MW-13 DRY
MW-15
MW-11 FP
MW-6 FP
NF
MW-7 DRY
MW-10
MW-14
MW-16
MW-5
MW-3 DRY
PW-2
FP
PW-1
RW-1
MW-1 DRY
MW-4
MW-2
MW-9 DRY
MW-8 DRY
MW-17
MW-12
MW-19
MW-20
MW-18
FORMER GAS STATION
FORMER GAS STATION
SOLIMER'S GROCERY
HOUSE
HOUSE
HOUSE
HOUSE
TRAILER
TRAILER
GOODYEAR RD. (S-42-76)
MT. LEBANON RD. (S-42-75)
Approximate Property Line

SUMMARY OF OVA MEASUREMENTS
SOUTHERS' GROCERY
UST PERMIT #08650

Depth	FS-1	FS-2	FS-3	FS-4	FS-5	FS-6	FS-7	FS-8
4	1.9	0	0	0	0	0	0	0
8	1.3	0.5	0	0	0	0	0	0
12	158	0	0	0	0	0	0	0
16	1318	8.2	0	1.5	0	0	0	0
20				312	0			
24					0			

3650
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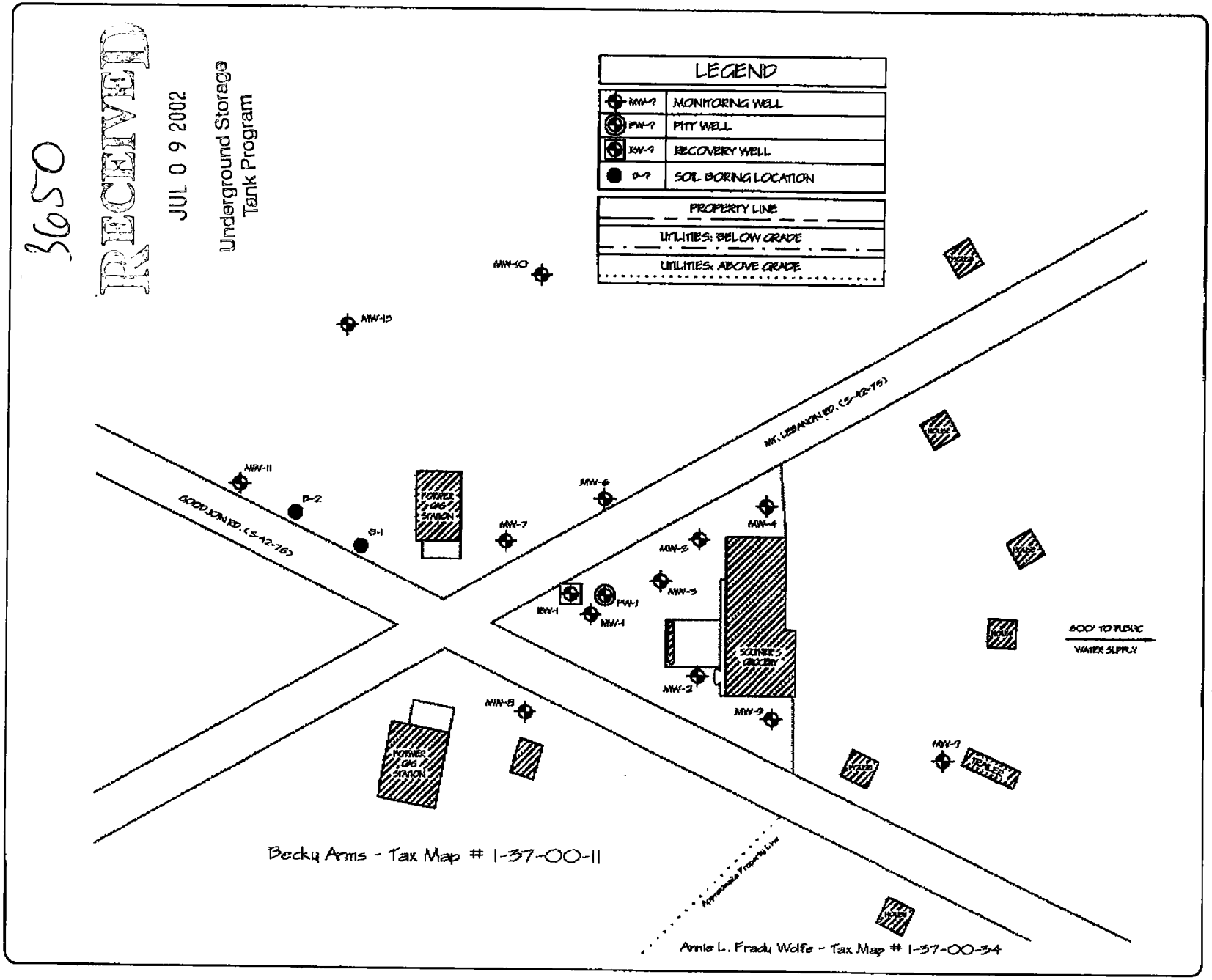
JUL 0 9 2002
Underground Storage
Tank Program



NESCO
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CONSULTING ENGINEERS & SCIENTISTS
1941 DECKER BOULEVARD, COLUMBIA, SOUTH CAROLINA, 29206 USA
PHONE: 803 790 0602 FACSIMILE: 803 790 0699

SOUTHERS GROCERY

GWPD SITE NO. 08650
GOODJOIN & MT. LEBANON RD
CAMPOBELLO, SC

DRAWN BY:	LAST REVISED:
CHRIS PINELLI	10/20/98

SITE MAP

60' 30' 0' 30' 60'
GRAPHIC SCALE IN FEET

NORTH

FIGURE NUMBER: 2.1
JOB NO: 21-31

Jul. 9. 2002 3:50PM No. 4345 P. 2/2

D H E C
PROMOTE PROTECT PROSPER
2600 Bull Street
Columbia, SC 29201-1708

UNDERGROUND STORAGE TANK PROGRAM
BUREAU OF LAND AND WASTE MANAGEMENT

Phone (803) 896-6240 Fax (803) 896-6245

JUL 09 2003

MR GEORGE SOUTHER
280 GOODJOIN ROAD
CAMPOBELLO SC 29322-9187

Re: Souther's Grocery, 195 Goodjoin Road, Campobello, South Carolina
UST Permit # 08650
Request from you received July 1, 2003
Spartanburg County

Dear Mr. Souther:

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

We received a report on December 31, 1991 documenting soil contamination in the subsurface in the vicinity of the former underground storage tanks. Our records revealed that six underground storage tanks (USTs) owned by you were removed on December 20, 1991. In response to the initial report of contamination, we directed you, as the owner/operator to assess the extent and severity of the contamination. A report of findings is anticipated in August 2003. Records also reveal that you own four tanks that are currently in operation under UST Permit # 14391 at the same address.

You also wanted us to clarify for you the financial and liability issues surrounding the petroleum contamination at this facility. State funds from the State Underground Petroleum Environmental Response Bank (SUPERB) Account will be available for you to access for site rehabilitation under the conditions of the SUPERB Act. You are entitled to up to $1,000,000 in coverage from the SUPERB Account for this release.

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

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.

If you have any questions, please contact me at (803) 896-6633 or (800) 826-5435 (within South Carolina only).

Sincerely,

Paula Anderson

Paula Anderson, Hydrogeologist
Owner/Operator Support Section
Assessment and Corrective Action Division

cc: Mr. Jeremy Grant, Fuss & O'Neill, Inc., 1419 Richland Street, Columbia, SC 29201
Technical File

D H E C
PROMOTE PROTECT PROSPER
2600 Bull Street
Columbia, SC 29201-1708

UNDERGROUND STORAGE TANK PROGRAM
BUREAU OF LAND AND WASTE MANAGEMENT

Phone (803) 896-6240 Fax (803) 896-6245

APR 1 0 2003

MR GEORGE SOUTHER
280 GOODJOIN ROAD
CAMPOBELLO SC 29322-9187

Re: Souther's Grocery, Hwy 4275 & 4276, Little Cicagro, South Carolina
UST Permit #08650 CA #18319 MWA #UMW-17032
Release 1 Reported December 31, 1991
Cost Agreement Received December 9, 2002
Spartanburg County

Dear Mr. Souther:

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. SCDHEC has reviewed the Assessment Component Cost Agreement for continued work at this site submitted by Fuss & O'Neill, Inc.

The next scope of work to be implemented at this site is installation of monitoring wells to fully define the contaminant plume, free product recovery rate tests, and a sampling event. Cost Agreement **#18319** has been approved in the amount shown on the enclosed Approved Cost Agreement to complete the necessary work. Please be advised that only EPA Method 8260B will be accepted for purgeable aromatics. Please note the following changes to the cost agreement.

- Personnel mobilizations have been reduced to four.
- Telescoping well footage has been omitted, as an additional deep monitoring well is not justified at this time.
- Slug test for the deep monitoring well has been omitted.
- Computer Model and Tier II Risk Evaluation have been omitted as they were done in the previous assessment.
- Free Product disposal costs have been added.

Fuss & O'Neill, Inc. can submit an invoice for direct billing from the SUPERB Account. Please note that all applicable South Carolina certification requirements apply to the laboratory services, well installation, and report preparation. Approval for the installation of ten shallow groundwater monitoring well has been provided to your environmental consultant; a copy is enclosed for your records.

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 Department 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 or excessive.** The SCDHEC reserves the right to audit project records at any time during the project or after completion of work.

Rehabilitation activities at the site should be resumed immediately upon receipt of this letter. Characterization of all exposure pathways shall be completed using field screening points. Based on the field screening results, monitoring wells shall be installed in appropriate locations to monitor the migration of chemicals of concern along these exposure pathways and for site rehabilitation. **The Department shall be contacted prior to well installation for concurrence regarding the final well locations.** Final monitoring wells shall be properly installed and bracketed at the water table.

A Report of Findings and the invoice are due within 90 days from the date of this letter. 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.

The Bureau of Land and Waste Management grants pre-approval for transportation of virgin petroleum contaminated groundwater/soil from the referenced site to a permitted treatment facility. The contaminated groundwater/soil must be properly stored in labeled containers or covered with plastic as appropriate. The contaminated groundwater/soil must be accepted by the approved treatment facility. There can be no spillage or leakage in transport. 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 final report. If the levels of petroleum contamination based on laboratory analysis are below risk-based screening levels, please contact the project manager for approval to dispose of soil and/or groundwater on site. The SUPERB Account will not compensate for transportation or treatment of clean soil and/or groundwater.

On all correspondence concerning this site, please reference **UST Permit #08650 and Cost Agreement #18319**. If there are any questions concerning this project, please contact me at (803) 896-6633 or (800) 826-5435 (within South Carolina only).

Sincerely,

Paula Anderson

Paula Anderson, Hydrogeologist
Owner/Operator Support Section
Assessment & Corrective Action Division

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

cc: Mr. Jeremy Grant, Fuss & O'Neill, Inc., 1419 Richland Street, Columbia, SC 29201 (with original MWA and copy of ACA)
Technical File (with copy of MWA and ACA)
Read File (no enc)

SCDHEC/UST/022703

D H E C

PROMOTE PROTECT PROSPER

2600 Bull Street
Columbia, SC 29201-1708

Monitoring Well Installation Approval Form

Date of Issue: February 27, 2003

Approval No.: UMW-17032

Approval is hereby granted to:	Fuss & O'Neill, Inc.
On behalf of:	Souther's Grocery
UST Permit #:	08650
County:	Spartanburg

This approval is for the construction of temporary field screening and ten shallow monitoring wells in accordance with the South Carolina Well Standards and Regulations. The well(s) are to be constructed within the surficial aquifer for the intended purpose of monitoring groundwater quality and/or water level(s) at the referenced facility. Approval is provided with the following conditions:

1. The latitude and longitude, surveyed elevations, boring and/or geologist logs and actual (as built) construction details for each well will be submitted with the technical report.

2. Each well will be labeled with an identification plate constructed of a durable material affixed to the casing or surface pad where it is readily visible. The plate will provide monitoring well I.D.#, date of construction, static water level, and driller name and state certification #.

3. Well construction and sampling derived waste including, but not necessarily limited to, drill cuttings, drilling fluids, development and purge water should be managed properly and in compliance with applicable requirements. If containerized, each vessel should be clearly labeled with regard to contents, source, and date of activity.

4. A minimum of forty-eight (48) hours prior to initiation of drilling activities, please provide notice to Paula Anderson at (803) 896-6633 or anderspe@dhec.sc.gov.

5. Please provide groundwater quality analytical data (chemical analysis and/or water level(s)) and associated measurements (i.e., in-situ field measurements) to me with the technical report.

6. Monitoring wells and temporary monitoring wells will be installed by or under the direct supervision of a licensed well driller certified by the State of South Carolina.

7. Monitoring wells and temporary monitoring wells will be abandoned by or under the direct supervision of a licensed well driller certified by the State of South Carolina. Temporary monitoring wells shall not remain in place for longer than 30 days from the date of installation. Monitoring wells may be abandoned only upon concurrence by this Bureau.

This approval is pursuant to the provisions of Section 44-55-40 of the 1976 South Carolina Code of Laws and the Department of Health and Environmental Control Regulations R.61-71. Please remember to have a copy of this approval on the site during well installation.

Approved by: Paula Anderson

Paula Anderson, Hydrogeologist
Owner/Operator Support Section
Underground Storage Tank Program

cc: Appalachia III District EQC
Technical File

SCDHEC/UST/022703

Approved Cost Agreement 18

Facility: 08650 GEORGE SOUTHER
ANDERSPE
PO Number: 465156

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	2.0000	500.00	1,000.00
		B PERSONNEL	4.0000	250.00	1,000.00
06 SOIL BORINGS (DRILLED)					
		SOIL BORINGS & FLD SCREENING	330.0000	17.00	5,610.00
08 ABANDONMENT					
		ABANDONMENT	330.0000	4.00	1,320.00
09 WELL INSTALLATION					
		B WATER TABLE (DRILLED)	350.0000	38.00	13,300.00
10 SAMPLE COLLECTION					
		A GROUND WATER	29.0000	55.00	1,595.00
11 ANALYSES					
	GW GROUNDWATER	A BTEX+NAPTH+MTBE	29.0000	100.00	2,900.00
13 FREE PRODUCT RECVRY RATE TEST					
		FREE PRODUCT RECVRY RATE TEST	3.0000	120.00	360.00
16 SUBSEQUENT SURVEY					
		SUBSEQUENT SURVEY	1.0000	260.00	260.00
17 DISPOSAL					
		A1 WASTEWATER - PURGING/SAMPLING	4.0000	90.00	360.00
		B FREE PRODUCT	2.0000	110.00	220.00
		C SOIL (TREATMENT/DISPOSAL)	8.0000	50.00	400.00
19 RPT/PROJECT MNGT & COORDINATIO					
		PCT PERCENT	0.1500	28,425.00	4,263.75
			Total Amount		32,688.75

Fuss & O'Neill Inc. *Consulting Engineers*
1419 Richland Street
Columbia, SC 29201
TEL 803 376-6034 FAX 803 376-6035
INTERNET: www.FandO.com

Other Offices:
Greenville, North Carolina
Manchester, Connecticut
Trumbull, Connecticut
Providence, Rhode Island
West Springfield, Massachusetts

FAX TRANSMITTAL SHEET

This facsimile and the information it contains are intended to be a confidential communication only to the person or entity to which it is addressed. If you have received this facsimile in error, please notify us by telephone and return the original fax to this office by mail.

DATE: December 9, 2002

TO: Paula Anderson

COMPANY: SCDHEC

FAX NO.: 896-6245

TELEPHONE NO.: 896-6633

FROM: Jeremy Grant, P.G.

JOB NO.: NA

RE: Re: Souther's Grocery (UST Permit #08650)

NO. OF PAGES: 6 (includes cover sheet)

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DEC 0 9 2002
Underground Storage
Tank Program

COMMENTS:
Dear Paula,

Here is the CP for the additional assessment required at the above referenced site. If you have any questions, please feel free to call me at 376-6034. Thanks!

Sincerely,
Fuss & O'Neill, Inc.
Jeremy Grant

Jeremy Grant, P.G.

RAPID ASSESSMENT PLAN

SOUTH CAROLINA
Department of Health and Environmental Control
Bureau of Underground Storage Tank Management

Site ID# 08650 County Spartanburg Facility Name Souther's Grocery
Facility Address Goodjoin and Mt Lebanon Rd., Campobello, SC
Responsible Party George Souther Address 280 Goodjoin Rd.
No. USTs 0 removed? 12/20/1991 (date) replaced? _____ (date)

Current use of facility/property Convenience Store
Current property owner name George Souther
Current property owner address 280 Goodjoin Rd., Campobello, SC 29322

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 well is required.

Up to 10 field screening points will be installed to groundwater.
Soils will be field screened for the presence of petroleum vapors with an OVA PID/FID.

Permanent Monitoring Wells (Estimate number and total completed depth)
# of shallow wells 10 total depth 350 ft.
# of deep wells 1 total depth 100 ft. (if necessary)
Comments, if warranted 5 of the shallow wells are replacement wells

Analyses
List the analytical parameters (e.g., BTEX, MTBE) and estimate number.
29 groundwater samples to be analyzed for the following:
BTEX, naphthalene, MTBE

Implementation Schedule
Start up date October 2002 Completion date December 2002
Report submittal date December 31, 2002

RAPID ASSESSMENT PLAN

SOUTH CAROLINA

Department of Health and Environmental Control

Bureau of Underground Storage Tank Management

Site ID# 08650 Facility Name Souther's Grocery

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. The 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, Site ID 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 (Check one and provide explanation for choice)

Pump Test _____ Slug Test 1

Additional aquifer characterization of the deep aquifer in the newly installed telescoping well.

Small Volume Disposal Type and Method

Contaminated soil and groundwater will be properly disposed of.

Additional Comments

Free product recovery tests will be performed in monitor wells containing greater than 1 foot of product.

ASSESSMENT COMPONENT COST PROPOSAL

SOUTH CAROLINA
Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
State Underground Petroleum Environmental Response Bank Account

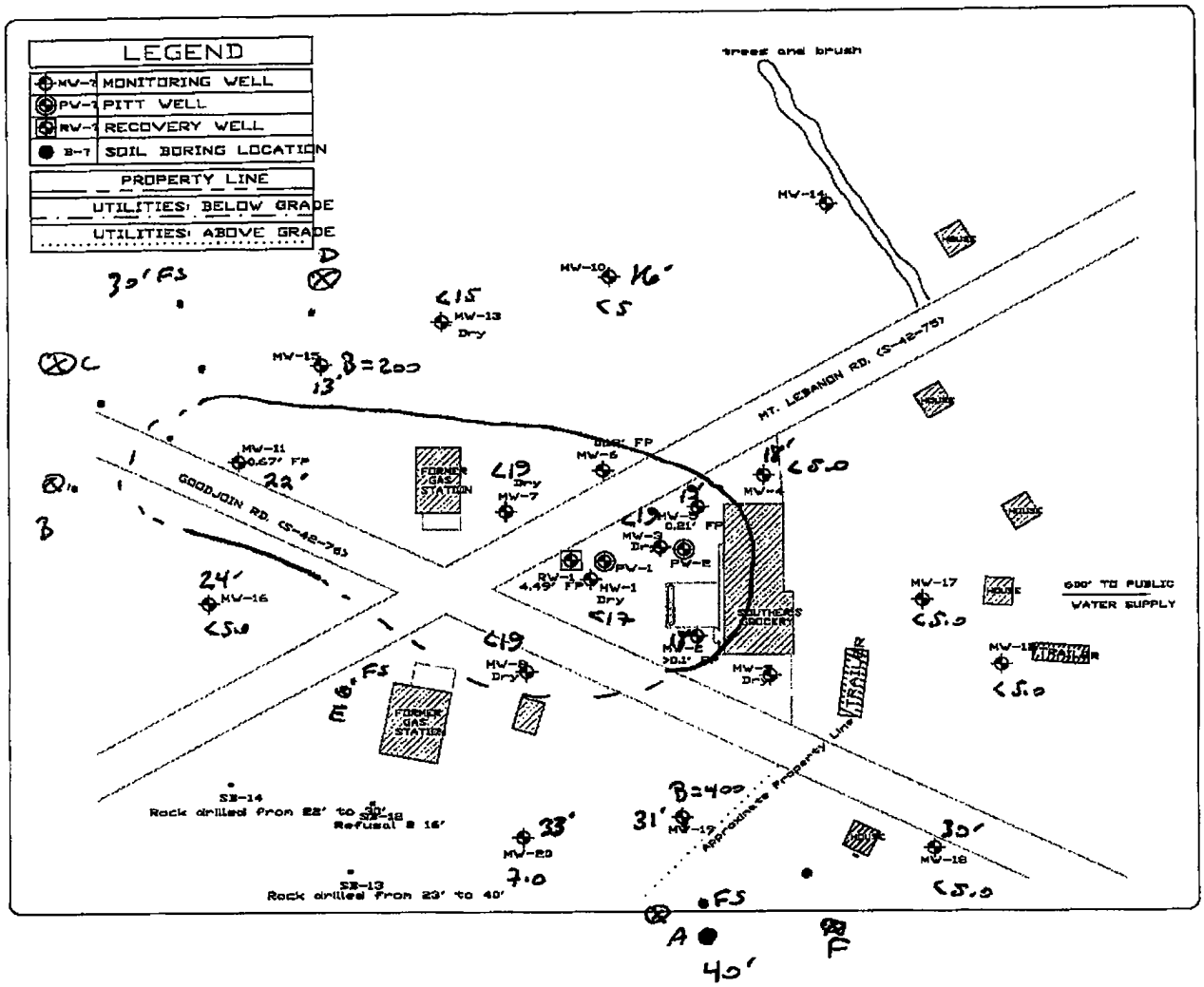
Site Name **Souther's Grocery**
UST Permit # **08650** CP#

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1. Plan*				
A. Plan Preparation	1		$100.00	$ 100.00
B. Tax Maps		x	$50.00	$ 0.00
2. Receptor Survey*		x	$500.00	$ 0.00
3. Comprehensive Survey		x	$1,000.00	$ 0.00
4. Mob/Demob (List component #)				
A. Equipment	2	x	$500.00	$ 1,000.00
B. Personnel	5	x	$250.00	$ ~~1,250.00~~ 1000 -
5. Soil Borings (hand auger)*		feet x	$14.00	$ 0.00
6. Soil Borings (drilled)	(includes collection and quantification)			
and Field Screening*	330	feet x	$17.00	$ 5,610.00
7. Soil Leachability Model		x	$200.00	$ 0.00
8. Abandonment*	330	feet x	$4.00	$ 1,320.00
9. Well Installation*	(Includes drilling costs)			
A. Water Table (hand auger)		feet x	$20.00	$ 0.00
B. Water Table (drilled)	350	feet x	$38.00	$ 13,300.00
C. Telescoping	~~100~~	feet x	$58.00	$ ~~5,800.00~~
D. Rock Drilling		feet x	$58.00	$ 0.00
10. Ground-water sample collection*	29	samples x	$55.00	$ 1,595.00
11. Analyses-Groundwater	(See RA Guidance for site specific analyses)			
A. BTEX+Napth.+MTBE	29	samples x	$100.00	$ 2,900.00
B. Rush BTEX analysis		samples x	$120.00	$ 0.00
C. BTEX+Napth.+MTBE+ Trimethylbenzene		samples x	$135.00	$ 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
I. pH		samples x	$10.00	$ 0.00
J. BOD		samples x	$40.00	$ 0.00
K. Nitrate		samples x	$20.00	$ 0.00
L. Sulfate		samples x	$20.00	$ 0.00
M. Ferrous Iron		samples x	$20.00	$ 0.00
N. Methane		samples x	$110.00	$ 0.00
O. Organic Lead		samples x	$100.00	$ 0.00
P. 8 Oxygenates		samples x	$85.00	$ 0.00

Continue on back of page

ASSESSMENT COMPONENT COST PROPOSAL					
11. Analyses-Soil					
Q. BTEX + Napth.		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 (3550)		samples	x	$65.00	0.00
V. TPH (5035)		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
12. Aquifer Characterization*					
A. Pumping Test		hours	x	$120.00	$ 0.00
B. Slug test	1	tests	x	$150.00	$ 150.00
13. Free Product Recovery Rate Test*	3	tests	x	$120.00	$ 360.00
14. Fate/Transport Modeling					
A. Mathematical Model		models	x	$300.00	$ 0.00
B. Computer Model	1	models	x	$500.00	$ 500.00
15. Risk Evaluation					
A. Tier I			x	$300.00	$ 0.00
B. Tier II	1		x	$500.00	$ 500.00
16. Subsequent Survey*	1		x	$260.00	$ 260.00
17. Disposal*					
A. Wastewater					
1. Purging/Sampling	4	drums	x	$90.00	$ 360.00
2. Pumping test		gallons	x	$0.60	$ 0.00
B. Free Product		drums	x	$110.00	$ 0.00
C. Soil (Treatment/Disposal)	8	drums	x	$50.00	$ 400.00
18. Miscellaneous*					
			x		$ 0.00
			x		$ 0.00
			x		$ 0.00
			x		$ 0.00
19. Report/Project Management and Coordination	0.15		x	(SUBTOTAL) $35,405.00	$ 5,310.75
20. Total					$ 40,715.75

*The appropriate mobilization cost can be added to complete these tasks, as necessary.



NESCO
For Practical Solutions.

CONSULTING ENGINEERS & SCIENTISTS
1941 DECKER BOULEVARD, COLUMBIA, SOUTH CAROLINA, 29206 USA
PHONE: 803 790 0602 FACSIMILE: 803 790 0699

SOUTHERS GROCERY
GWPD SITE NO. 08650
GOODJOIN & MT. LEBANON RD
CAMPOBELLO, SC

DRAWN BY:	LAST REVISED:
Brad	Dec 9 2002

SITE

60' 30' 0' 30' 60'
GRAPHIC SCALE IN FEET

NORTH

FIGURE NUMBER: 2.1
JOB NO: 21-1768A

D H E C
PROMOTE PROTECT PROSPER
2600 Bull Street
Columbia, SC 29201-1708

MEMORANDUM

Date: September 23, 2002

To: Connie Anderson or Chuck Hightower, Regulatory Compliance Division

From: Paula Anderson, Hydrogeologist

Re: UST Permit # 08650 - Possible 2nd Release

Sampling results recently submitted by NESCO on George Souther's behalf indicate that a second release may have occurred at this facility. Past CoC site maps and current free product measurements are attached. Information supporting a second release is as follows:

- No free product has been measured in monitoring or recovery wells in any previous assessments.
- Free Product measured 4.5 feet in RW-1, 0.7 feet in MW-11, and 0.2 feet in MW-6.
- Well RW-1 is in close proximity to the tank basin.

enc: Site Maps and Data Table

cc: Technical File

Ingenuity At Work

NESCO

NESCO, Inc.
521 Clemson Road
Columbia, South Carolina 29229
Telephone 803-699-1976
Telefax 803-699-9853
Toll Free 1-800-379-3688
www.nesco-usa.com

RECEIVED
SEP 10 2002
Underground Storage Tank Program

Telefax

TO	SCDHEC-UST Division Paula Anderson	DATE	9/10/02
FROM	Brad Dofer	PAGES	2
FAX	898.4330	PHONE	
RE	UST # 08650 Southern Chevy	CC	

Paula,

Here is the table you requested last week, sorry for the delay.

Thanks.
Brad

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Table 1: SUMMARY OF GROUNDWATER ELEVATIONS AND HYDRAULIC CONDUCTIVITIES

Souther's Grocery (GWPD Site No.: 08650)								
STATION	DATE MEASURED	TOC ELEVATION (Feet)	SCREEN INTERVAL (Feet)	DEPTH TO PRODUCT (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GW ELEVATION (Feet)	HYDRAULIC CONDUCTIVITY (cm/sec)
MW-1	8/30/02	96.5	7-17	ND	dry	NA	NA	NM
MW-2	8/30/02	99.98	7-17	17.35	17.45	0.1	ND	NM
MW-3	8/30/02	97.02	9-19	ND	dry	NA	NA	NM
MW-4	8/30/02	91.37	9-19	ND	17.71	NA	73.66	NM
MW-5	8/30/02	93.54	9.5-19.5	18.80	19.01	0.21	74.36	NM
MW-6	8/30/02	92.1	9-19	16.82	16.64	0.18	75.6	NM
MW-7	8/30/02	95.4	9-19	ND	dry	NA	NA	NM
MW-8	8/30/02	99.71	9-19	ND	dry	NA	NA	NM
MW-9	8/30/02	100.0	14-24	ND	dry	NA	NA	NM
MW-10	8/30/02	89.99	7-17	ND	15.65	NA	74.34	NM
MW-11	8/30/02	96.81	13-23	21.38	22.15	0.67	75.2	NM
MW-12	8/30/02	94.64	15-25	ND	23.27	NA	71.37	NM
MW-13	8/30/02	89.36	5-15	ND	dry	NA	NA	NM
MW-14	8/30/02	86.13	10-25	ND	13.53	NA	72.6	NM
MW-15	8/30/02	87.34	10-25	ND	12.68	NA	74.66	NM
MW-16	8/30/02	98.91	15-35	ND	23.88	NA	75.03	NM
MW-17	8/30/02	94.55	15-35	ND	21.3	NA	73.25	NM
MW-18	8/30/02	101.00	15-35	ND	29.62	NA	71.38	NM
MW-19	8/30/02	104.73	20-40	ND	31.1	NA	73.63	NM
MW-20	8/30/02	106.90	16-36	ND	32.96	NA	73.94	NM
RW-1	8/30/02	96.29	15-30	20.61	25.1	4.49	74.78	NM
PW-1	8/30/02	97.96	45-47	ND	21.93	NA	76.03	NM
PW-2	8/30/02	97.59	70-75	ND	23.45	NA	74.14	NM

Notes: NM - Not Measured
ND – Not Detected
NA - Not Applicable

NESCO

Ingenuity At Work

NESCO, Inc.
521 Clemson Road
Columbia, South Carolina 29229
Telephone 803-699-1976
Telefax 803-699-9863
Toll Free 1-800-379-3888
www.nesco-usa.com

Telefax

TO	Paula Anderson (UST)	DATE	9/4/02
FROM	Brad Dafer	PAGES	1 of 2
FAX	898-4330	PHONE	
RE	Southern Dreams	CC	

Paula,

Here is a site map with current monitoring well data. Jeremy and I will be calling you soon to discuss.

Thanks

Brad Dafer

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SEP 4 2002
Underground Storage Tank Program

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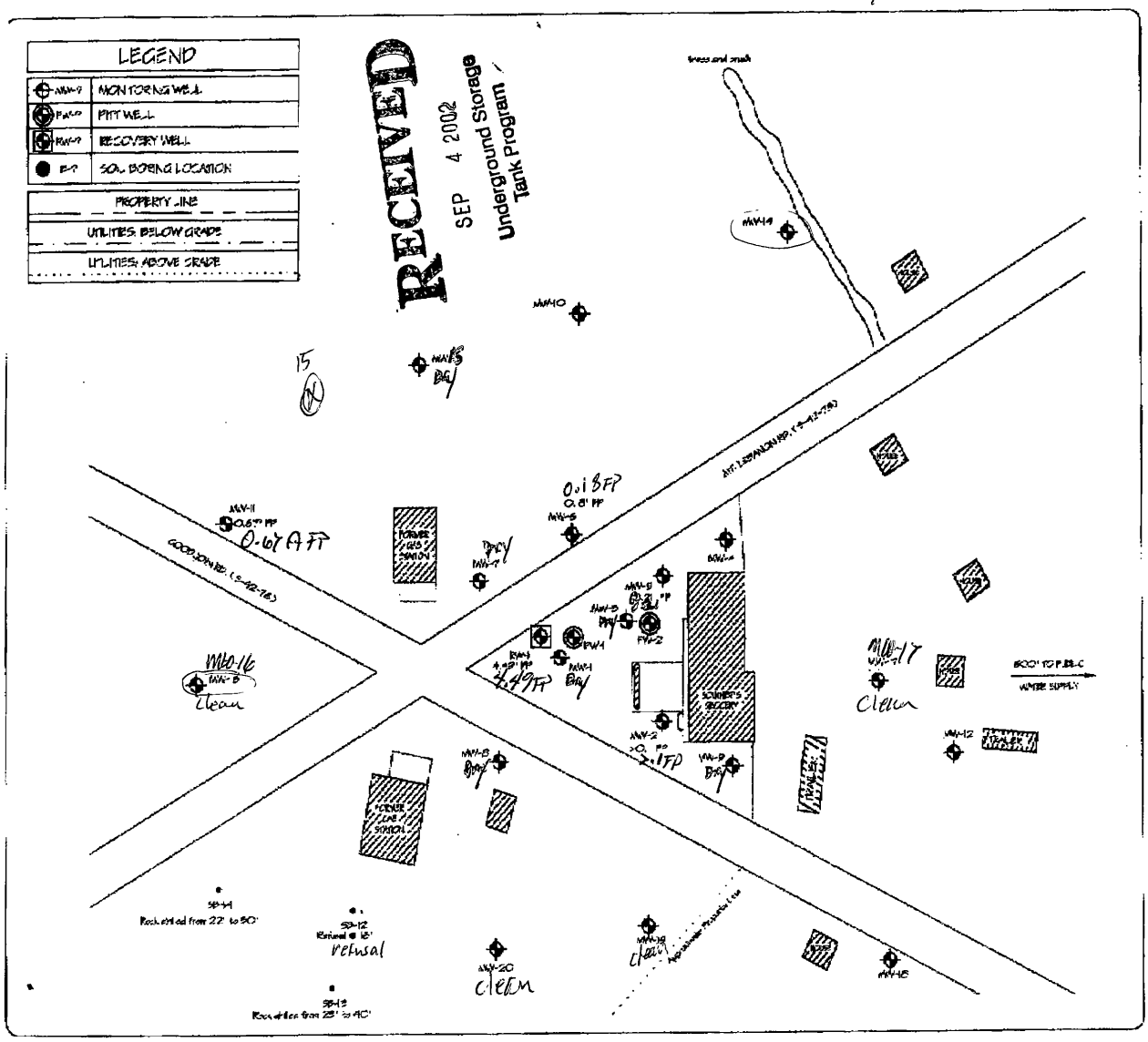
6 dry wells 14391



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CONSULTING ENGINEERS & SCIENTISTS
1941 DECKER BOULEVARD, COLUMBIA, SOUTH CAROLINA, 29206 USA
PHONE: 803 790 0602 FACSIMILE: 803 790 0699

SOUTHERS GROCERY

GWPD SITE NO. 08650
GOODJON & MT. LEBANON RD
CAMPOBELLO, SC

DRAWN BY:	LAST REVISED:
Brad Defee	9/4/02

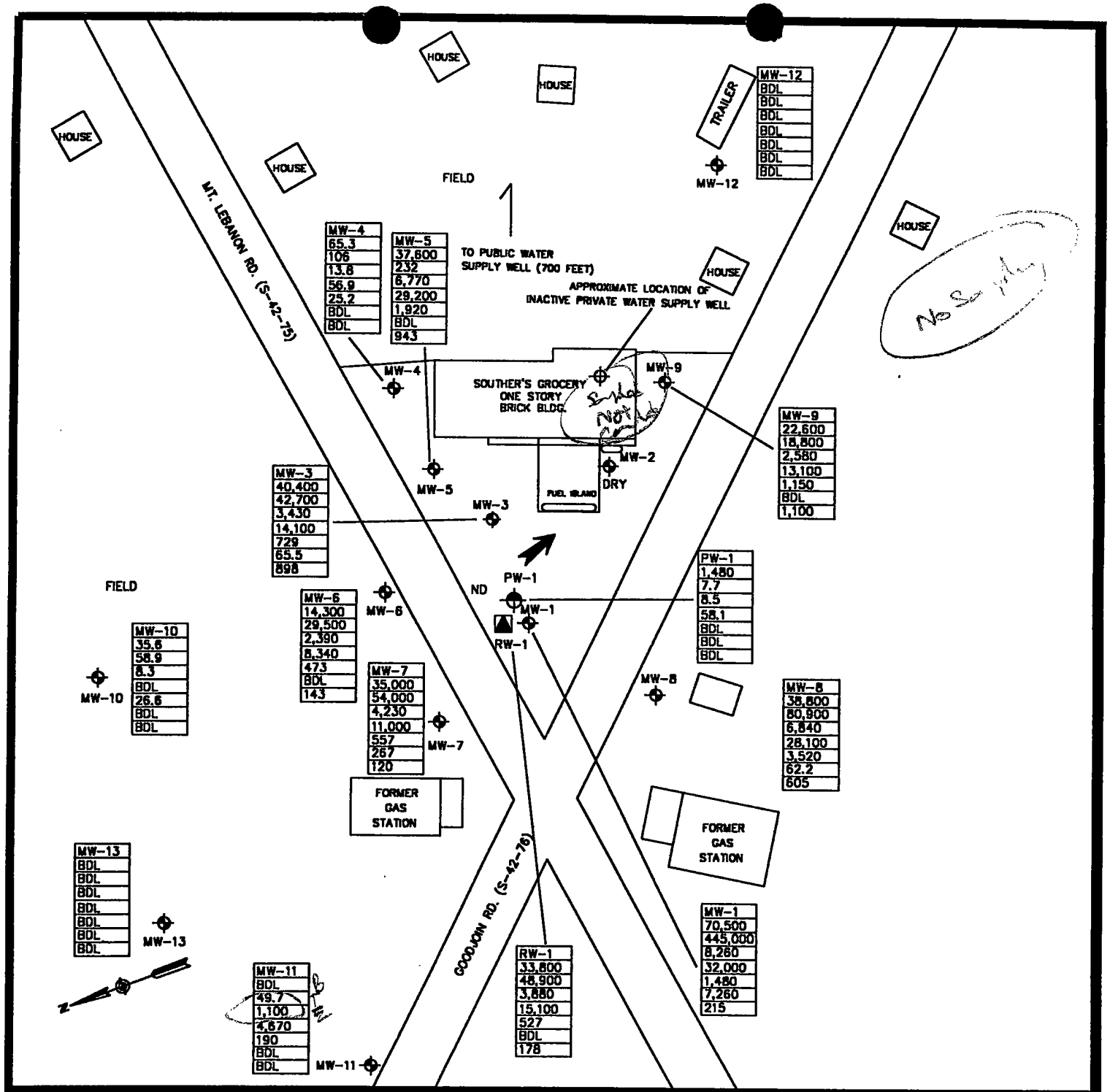
SITE MAP

60' 30' 0' 30' 60'
GRAPHIC SCALE IN FEET

NORTH

FIGURE NUMBER: 2.1
JOB NO: 21-1768A

Sep. 4. 2002 10:27AM No.5645 P. 2/2



LEGEND:

- MONITORING WELLS
- RECOVERY WELL
- PIT WELL
- DIRECTION OF GROUNDWATER FLOW

MONITOR WELL
BENZENE
TOLUENE
ETHYLBENZENE
XYLENES
NAPHTHALENE
MTBE
EDB

70 0 70

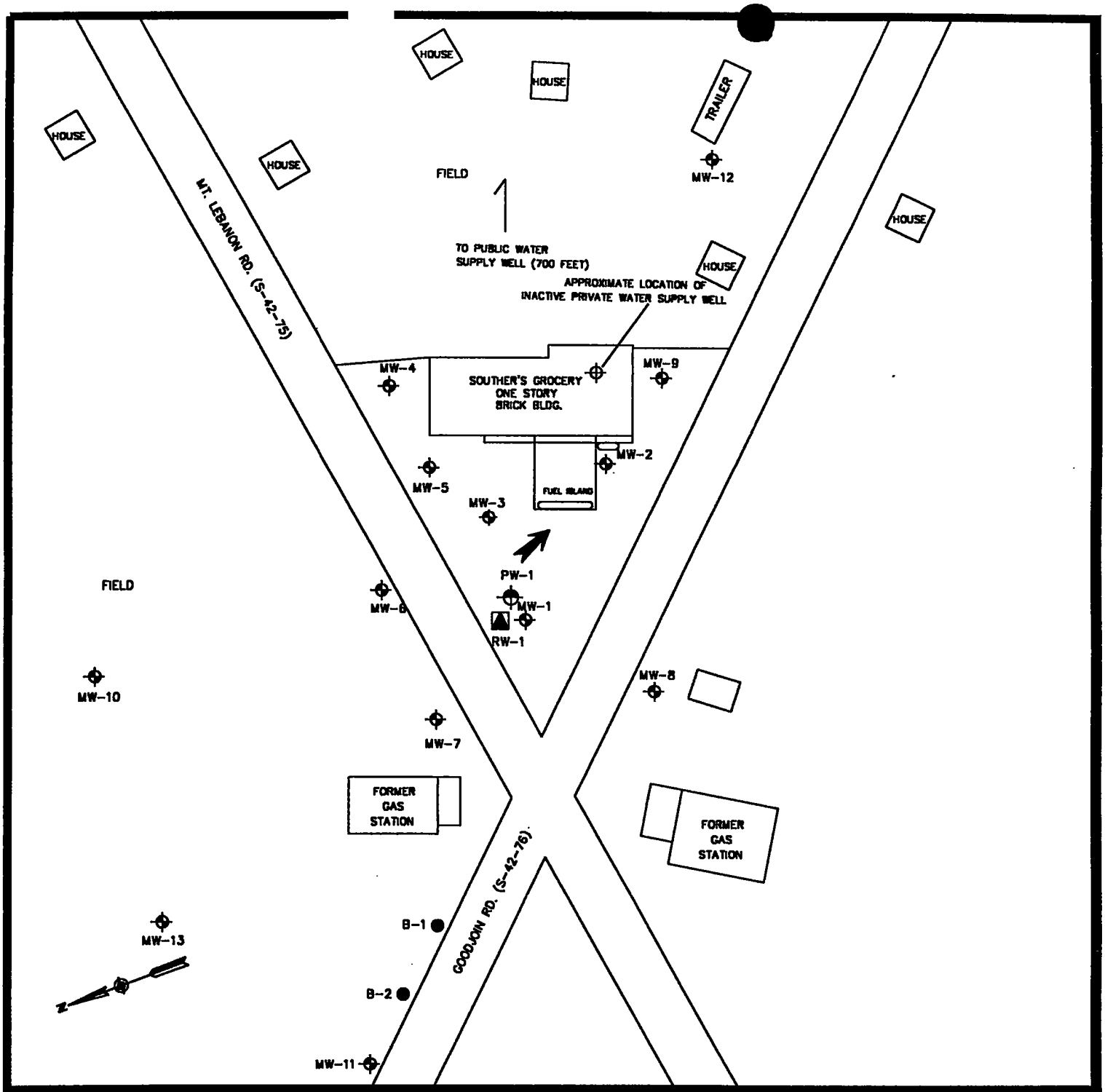
SCALE: 1" = 70'

SOUTHERS GROCERY
GWPD SITE NO. 08650
GOODJOIN AND MT. LEBANON ROAD
CAMPOBELLO, SOUTH CAROLINA
NESCO PROJECT NO. 31

FIGURE 4

CoC MAP – GROUNDWATER

NESCO
For Practical Solutions.
CONSULTING ENGINEERS & SCIENTISTS
1941 DECKER BOULEVARD, COLUMBIA, SOUTH CAROLINA, 29206 USA
PHONE: 803 790 0602 FACSIMILE: 803 790 0699



LEGEND:

- MONITORING WELLS
- RECOVERY WELL
- PIT WELL
- DIRECTION OF GROUNDWATER FLOW

70 0 70

SCALE: 1" = 70'

SOUTHERS GROCERY
GWPD SITE NO. 08650
GOODJOIN AND MT. LEBANON ROAD
CAMPOBELLO, SOUTH CAROLINA
NESCO PROJECT NO. 31

FIGURE 2

SITE MAP

NESCO
For Practical Solutions.
CONSULTING ENGINEERS & SCIENTISTS
1941 DECKER BOULEVARD, COLUMBIA, SOUTH CAROLINA, 29206 USA
PHONE: 803 790 0602 FACSIMILE: 803 790 0699

D H E C

PROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

RECEIVED MAR 25 2002 UNDERGROUND STORAGE TANK PROGRAM

BUREAU OF LAND AND WASTE MANAGEMENT
UNDERGROUND STORAGE TANK PROGRAM
2600 Bull Street
Columbia, SC 29201
Telephone (803) 734-5331

RIGHT OF ENTRY

I, Samuel Bruce James **certify that I am the legal owner or the authorized representative for** _____ **(owner) of the property described below. I have witnessed the planned locations / have been provided a sketch map indicating the location(s) of the work to be performed. Permission is hereby granted to the South Carolina Department of Health and Environmental Control (SCDHEC) and its agents to enter the referenced property for the following purposes:**

Name of Facility (if appropriate) : _____

Street Address : @ 240 Goodjoin Rd

City, State, ZIP : Campobello SC 29322

1) **Drilling an exploratory boring, or installation of a temporary well or piezometer. The work will be properly abandoned upon completion, and no permanent effects shall remain on site.**

NAME (Please print) : Samuel Bruce James

SIGNATURE : Samuel Bruce James

WITNESS : Pamela Diane Quinn

DATE : 3 **Mo** 20 **Day** 02 **Year**

2) **Installing** 1 **monitoring / recovery well(s). I understand that these wells will be a permanent fixture of the property. Additionally, SCDHEC or its agents will access the property at reasonable times for measurement and/or collection of samples.**

NAME (Please print) : Samuel Bruce James

SIGNATURE : Samuel Bruce James

WITNESS : Pamela Diane Quinn

DATE : 3 **Mo** 20 **Day** 02 **Year**

Reference UST Permit # 08650

D H E C

PROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

BUREAU OF LAND AND WASTE MANAGEMENT
UNDERGROUND STORAGE TANK PROGRAM
2600 Bull Street
Columbia, SC 29201
Telephone (803) 734-5331

RIGHT OF ENTRY

I, Rebecca Arms **certify that I am the legal owner or the authorized representative for** Rebecca Arms **(owner) of the property described below. I have witnessed the planned locations / have been provided a sketch map indicating the location(s) of the work to be performed. Permission is hereby granted to the South Carolina Department of Health and Environmental Control (SCDHEC) and its agents to enter the referenced property for the following purposes:**

Name of Facility (if appropriate) : _____

Street Address : Good Goin RD 8400

City, State, ZIP : Campobello S.C. 29356

1) **Drilling an exploratory boring, or installation of a temporary well or piezometer. The work will be properly abandoned upon completion, and no permanent effects shall remain on site.**

NAME (Please print) : Rebecca Arms

895-4247 after 3:00

SIGNATURE : Rebecca Arms

WITNESS : Tawa Anderson

DATE : 7 **Mo** 10 **Day** 02 **Year**

2) **Installing** _____ **monitoring / recovery well(s). I understand that these wells will be a permanent fixture of the property. Additionally, SCDHEC or its agents will access the property at reasonable times for measurement and/or collection of samples.**

NAME (Please print) : Rebecca Arms

SIGNATURE : Rebecca Arms

WITNESS : Tawa Anderson

DATE : 7 **Mo** 10 **Day** 02 **Year**

Reference UST Permit # 08650

D H E C

PROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

BUREAU OF LAND AND WASTE MANAGEMENT
UNDERGROUND STORAGE TANK PROGRAM
2600 Bull Street
Columbia, SC 29201
Telephone (803) 734-5331

RECEIVED
MAR 22 2002
UNDERGROUND STORAGE TANK PROGRAM

RIGHT OF ENTRY

Mrs.

I, Vannie F. Collins certify that I am the legal owner or the authorized representative for _____ (owner) of the property described below. I have witnessed the planned locations / have been provided a sketch map indicating the location(s) of the work to be performed. Permission is hereby granted to the South Carolina Department of Health and Environmental Control (SCDHEC) and its agents to enter the referenced property for the following purposes:

Name of Facility (if appropriate) : NONE OWNER

Street Address : 270 Goodson Rd

City, State, ZIP : CAMPOBELLO, S.C. 29322

1) Drilling an exploratory boring, or installation of a temporary well or piezometer. The work will be properly abandoned upon completion, and no permanent effects shall remain on site.

NAME (Please print) : VINNIE FAYE COLLINS

SIGNATURE : Vannie Faye Collins

WITNESS : Marvin Collins

DATE : 3 Mo 20 Day 02 Year

2) Installing _____ monitoring / recovery well(s). I understand that these wells will be a permanent fixture of the property. Additionally, SCDHEC or its agents will access the property at reasonable times for measurement and/or collection of samples.

NAME (Please print) : VINNIE F. COLLINS

SIGNATURE : Vannie F. Collins

WITNESS : Marvin Collins

DATE : 3 Mo 20 Day 02 Year

Reference UST Permit # 08650

D H E C

PROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

RECEIVED

JAN 2 2 2002

Underg... Tank ...

BUREAU OF LAND AND WASTE MANAGEMENT
UNDERGROUND STORAGE TANK PROGRAM
2600 Bull Street
Columbia, SC 29201
Telephone (803) 734-5331

RIGHT OF ENTRY

I, Ricky F Golightly **certify that I am the legal owner or the authorized representative for** ???? **(owner) of the property described below. I have witnessed the planned locations / have been provided a sketch map indicating the location(s) of the work to be performed. Permission is hereby granted to the South Carolina Department of Health and Environmental Control (SCDHEC) and its agents to enter the referenced property for the following purposes:**

Name of Facility (if appropriate) : ? ?

Street Address : 1265 Mt Lebanon Rd

City, State, ZIP : Campobello SC 29322

1) **Drilling an exploratory boring, or installation of a temporary well or piezometer. The work will be properly abandoned upon completion, and no permanent effects shall remain on site.**

NAME (Please print) : Ricky F Golightly

SIGNATURE : Ricky F Golightly

WITNESS : Robin Golightly

DATE : 1 **Mo** 21 **Day** 2002 **Year**

2) **Installing** ? **monitoring / recovery well(s). I understand that these wells will be a permanent fixture of the property. Additionally, SCDHEC or its agents will access the property at reasonable times for measurement and/or collection of samples.**

NAME (Please print) : Ricky F Golightly

SIGNATURE : Ricky F Golightly

WITNESS : Robin Golightly

DATE : 1 **Mo** 21 **Day** 2002 **Year**

Reference UST Permit # 08650

D H E C
ROMOTE PROTECT PROSPER
00 Bull Street
olumbia, SC 29201-1708

UNDERGROUND STORAGE ANK PROGRAM
BUREAU OF LAND AND WASTE MANAGEMENT

Phone (803) 898-4350 Fax (803) 898-4343

MAR 19 2002

MS ANNIE L FRADY WOLFE
275 GOODJOIN RD
CAMPOBELLO SC 29322-9187

Re: George Souther Property, Hwy 4275 & 4276, Campobello, SC
UST Permit #08650
SCDHEC letter dated January 18, 2002
Access to your property located adjacent to George Souther
Spartanburg County

Dear Ms. Wolfe:

The Underground Storage Tank (UST) Program in the referenced letter requested permission to enter your property for NESCO to install permanent ground water monitoring wells and field screening. Although you received this letter a response within the requested 10 days has not been received.

The Department has the authority pursuant to the State Underground Petroluem Environmental Response Bank Act (S.C. Code Ann. 44-2-10 *et seq.* (Supp. 1996)) and the Underground Storage Tank Control Regulations (S.C. Code Ann. Regs. 61-92 (Supp.1996)) to hold George Souther, the owner / operator, responsible for addressing the existing contamination. The Department also has authority, however, under the Pollution Control Act (S.C. Code Ann. 48-1-10 *et seq.* (1976)), as amended, to require each and every individual property owner to abate pollution on his or her own property. Indeed, the South Carolina Supreme Court has held landowners strictly liable under the Pollution Control Act for contamination emanating from their property. The Department believes it to be in your best interest to allow George Souther and his contractor NESCO to address the contamination problem as they, until now, have done.

The Program requests that you allow the installation of the wells to proceed in a timely manner and return the required right of entry form. **Please complete the attached right of entry form and return it to the attention of Paula Anderson within 10 days from your date of receipt. If not, the Department may pursue a court order to gain access to the property.**

On all correspondence concerning this facility, please reference **UST Permit #08650**. If you have any questions, please contact me at (803) 898-4318 or (800) 826-5435 (within SC).

Sincerely,

Paula Anderson

Paula Anderson, Hydrogeologist
Owner/Operator Assistance Section
Assessment and Corrective Action Division

enc: SCDHEC Right of Entry Form

cc: Mr. Jeremy Grant, NESCO, 521 Clemson Road, Columbia, SC 29229
Mr. George Souther, 280 Goodjoin Road, Campobello, SC 29322-9187
Technical and Read Files

D H E C
ROMOTE PROTECT PROSPER
500 Bull Street
olumbia, SC 29201-1708

UNDERGROUND STORAGE TANK PROGRAM
BUREAU OF LAND AND WASTE MANAGEMENT

Phone (803) 898-4350 Fax (803) 898-4343

MAR 19 2002

MS VINNIE FAYE COLLINS
107 ANDERSON ST
SPARTANBURG SC 29301

Re: George Souther Property, Hwy 4275 & 4276, Campobello, SC
UST Permit #08650
SCDHEC letter dated January 18, 2002
Access to your property located adjacent to George Souther
Spartanburg County

Dear Ms. Collins:

The Underground Storage Tank (UST) Program in the referenced letter requested permission to enter your property for NESCO to install permanent ground water monitoring wells and field screening. Although you received this letter a response within the requested 10 days has not been received.

The Department has the authority pursuant to the State Underground Petroluem Environmental Response Bank Act (S.C. Code Ann. 44-2-10 *et seq.* (Supp. 1996)) and the Underground Storage Tank Control Regulations (S.C. Code Ann. Regs. 61-92 (Supp.1996)) to hold George Souther, the owner / operator, responsible for addressing the existing contamination. The Department also has authority, however, under the Pollution Control Act (S.C. Code Ann. 48-1-10 *et seq.* (1976)), as amended, to require each and every individual property owner to abate pollution on his or her own property. Indeed, the South Carolina Supreme Court has held landowners strictly liable under the Pollution Control Act for contamination emanating from their property. The Department believes it to be in your best interest to allow George Souther and his contractor NESCO to address the contamination problem as they, until now, have done.

The Program requests that you allow the installation of the wells to proceed in a timely manner and return the required right of entry form. **Please complete the attached right of entry form and return it to the attention of Paula Anderson within 10 days from your date of receipt. If not, the Department may pursue a court order to gain access to the property.**

On all correspondence concerning this facility, please reference **UST Permit #08650**. If you have any questions, please contact me at (803) 898-4318 or (800) 826-5435 (within SC).

Sincerely,

Paula Anderson

Paula Anderson, Hydrogeologist
Owner/Operator Assistance Section
Assessment and Corrective Action Division

enc: SCDHEC Right of Entry Form

cc: Mr. Jeremy Grant, NESCO, 521 Clemson Road, Columbia, SC 29229
Mr. George Souther, 280 Goodjoin Road, Campobello, SC 29322-9187
Technical and Read Files

D H E C
ROMOTE PROTECT PROSPER
500 Bull Street
olumbia, SC 29201-1708

UNDERGROUND STORAGE TANK PROGRAM
BUREAU OF LAND AND WASTE MANAGEMENT

Phone (803) 898-4350 Fax (803) 898-4343

MAR 19 2002

MR BOYD J BELCHER
320 GOODJOIN ROAD
CAMPOBELLO SC 29322-9102

Re: George Souther Property, Hwy 4275 & 4276, Campobello, SC
UST Permit #08650
SCDHEC letter dated January 18, 2002
Access to your property located adjacent to George Souther
Spartanburg County

Dear Mr. Belcher:

The Underground Storage Tank (UST) Program in the referenced letter requested permission to enter your property for NESCO to install permanent ground water monitoring wells and field screening. Although you received this letter a response within the requested 10 days has not been received.

The Department has the authority pursuant to the State Underground Petroluem Environmental Response Bank Act (S.C. Code Ann. 44-2-10 *et seq.* (Supp. 1996)) and the Underground Storage Tank Control Regulations (S.C. Code Ann. Regs. 61-92 (Supp.1996)) to hold George Souther, the owner / operator, responsible for addressing the existing contamination. The Department also has authority, however, under the Pollution Control Act (S.C. Code Ann. 48-1-10 *et seq.* (1976)), as amended, to require each and every individual property owner to abate pollution on his or her own property. Indeed, the South Carolina Supreme Court has held landowners strictly liable under the Pollution Control Act for contamination emanating from their property. The Department believes it to be in your best interest to allow George Souther and his contractor NESCO to address the contamination problem as they, until now, have done.

The Program requests that you allow the installation of the wells to proceed in a timely manner and return the required right of entry form. **Please complete the attached right of entry form and return it to the attention of Paula Anderson within 10 days from your date of receipt. If not, the Department may pursue a court order to gain access to the property.**

On all correspondence concerning this facility, please reference **UST Permit #08650**. If you have any questions, please contact me at (803) 898-4318 or (800) 826-5435 (within SC).

Sincerely,

Paula Anderson

Paula Anderson, Hydrogeologist
Owner/Operator Assistance Section
Assessment and Corrective Action Division

enc: SCDHEC Right of Entry Form

cc: Mr. Jeremy Grant, NESCO, 521 Clemson Road, Columbia, SC 29229
Mr. George Souther, 280 Goodjoin Road, Campobello, SC 29322-9187
Technical and Read Files

D H E C
ROMOTE PROTECT PROSPER
500 Bull Street
olumbia, SC 29201-1708

UNDERGROUND STORAGE ANK PROGRAM
BUREAU OF LAND AND WASTE MANAGEMENT

Phone (803) 898-4350 Fax (803) 898-4343

MAR 19 2002

MS BECKY ARMS
143 N WAY DRIVE
LANDRUM SC 29356-9539

Re: George Souther Property, Hwy 4275 & 4276, Campobello, SC
UST Permit #08650
SCDHEC letter dated January 18, 2002
Access to your property located adjacent to George Souther
Spartanburg County

Dear Ms. Arms:

The Underground Storage Tank (UST) Program in the referenced letter requested permission to enter your property for NESCO to install permanent ground water monitoring wells and field screening. Although you received this letter a response within the requested 10 days has not been received.

The Department has the authority pursuant to the State Underground Petroluem Environmental Response Bank Act (S.C. Code Ann. 44-2-10 *et seq.* (Supp. 1996)) and the Underground Storage Tank Control Regulations (S.C. Code Ann. Regs. 61-92 (Supp.1996)) to hold George Souther, the owner / operator, responsible for addressing the existing contamination. The Department also has authority, however, under the Pollution Control Act (S.C. Code Ann. 48-1-10 *et seq.* (1976)), as amended, to require each and every individual property owner to abate pollution on his or her own property. Indeed, the South Carolina Supreme Court has held landowners strictly liable under the Pollution Control Act for contamination emanating from their property. The Department believes it to be in your best interest to allow George Souther and his contractor NESCO to address the contamination problem as they, until now, have done.

The Program requests that you allow the installation of the wells to proceed in a timely manner and return the required right of entry form. **Please complete the attached right of entry form and return it to the attention of Paula Anderson within 10 days from your date of receipt. If not, the Department may pursue a court order to gain access to the property.**

On all correspondence concerning this facility, please reference **UST Permit #08650**. If you have any questions, please contact me at (803) 898-4318 or (800) 826-5435 (within SC).

Sincerely,

Paula Anderson

Paula Anderson, Hydrogeologist
Owner/Operator Assistance Section
Assessment and Corrective Action Division

enc: SCDHEC Right of Entry Form

cc: Mr. Jeremy Grant, NESCO, 521 Clemson Road, Columbia, SC 29229
Mr. George Souther, 280 Goodjoin Road, Campobello, SC 29322-9187
Technical and Read Files

D H E C
ROMOTE PROTECT PROSPER
500 Bull Street
Columbia, SC 29201-1708

UNDERGROUND STORAGE TANK PROGRAM
BUREAU OF LAND AND WASTE MANAGEMENT

Phone (803) 898-4350 Fax (803) 898-4343

MAR 19 2002

MR SAMUEL BRUCE JAMES
PO BOX 219
LYMAN SC 29365-0219

Re: George Souther Property, Hwy 4275 & 4276, Campobello, SC
UST Permit #08650
SCDHEC letter dated January 18, 2002
Access to your property located adjacent to George Souther
Spartanburg County

Dear Mr. James:

The Underground Storage Tank (UST) Program in the referenced letter requested permission to enter your property for NESCO to install permanent ground water monitoring wells and field screening. Although you received this letter a response within the requested 10 days has not been received.

The Department has the authority pursuant to the State Underground Petroluem Environmental Response Bank Act (S.C. Code Ann. 44-2-10 *et seq.* (Supp. 1996)) and the Underground Storage Tank Control Regulations (S.C. Code Ann. Regs. 61-92 (Supp.1996)) to hold George Souther, the owner / operator, responsible for addressing the existing contamination. The Department also has authority, however, under the Pollution Control Act (S.C. Code Ann. 48-1-10 *et seq.* (1976)), as amended, to require each and every individual property owner to abate pollution on his or her own property. Indeed, the South Carolina Supreme Court has held landowners strictly liable under the Pollution Control Act for contamination emanating from their property. The Department believes it to be in your best interest to allow George Souther and his contractor NESCO to address the contamination problem as they, until now, have done.

The Program requests that you allow the installation of the wells to proceed in a timely manner and return the required right of entry form. **Please complete the attached right of entry form and return it to the attention of Paula Anderson within 10 days from your date of receipt. If not, the Department may pursue a court order to gain access to the property.**

On all correspondence concerning this facility, please reference **UST Permit #08650**. If you have any questions, please contact me at (803) 898-4318 or (800) 826-5435 (within SC).

Sincerely,

Paula Anderson

Paula Anderson, Hydrogeologist
Owner/Operator Assistance Section
Assessment and Corrective Action Division

enc: SCDHEC Right of Entry Form

cc: Mr. Jeremy Grant, NESCO, 521 Clemson Road, Columbia, SC 29229
Mr. George Souther, 280 Goodjoin Road, Campobello, SC 29322-9187
Technical and Read Files

D H E C
ROMOTE PROTECT PROSPER
500 Bull Street
olumbia, SC 29201-1708

UNDERGROUND STORAGE ' K PROGRAM
BUREAU OF LAND AND WASTE MANAGEMENT

Phone (803) 898-4350 Fax (803) 898-4343

JAN 18 2002

Mr. Samuel Bruce James
PO Box 219
Lyman, SC 29365-0219

Re: George Souther, 280 Goodjoin RoadCampobello, SC 29322-9187
UST Permit #08650
Access to your property located adjacent to George Souther
Spartanburg County

Dear Mr. James:

The Underground Storage Tank (UST) Program of the South Carolina Department of Health and Environmental Control (SCDHEC) is conducting work to assess a gasoline release reported at the George Souther facility. NESCO is currently conducting an environmental assessment and requires access to your property adjacent to the referenced facility in order to install temporary and permanent monitoring wells. You will be contacted regarding the location of the permanent monitoring wells and all efforts will be made to locate the wells near the perimeter of your property.

The permanent monitoring wells will be constructed in accordance with the South Carolina Well Standards and Regulations. They will be completed at grade and will have a small diameter manhole cover and concrete pad. They will not interfere with normal usage of your property. The temporary wells 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.

NESCO previously sent you a letter requesting access to your property. **Please sign the enclosed SCDHEC right of entry form or the form from NESCO and return it to the attention of Paula Anderson within ten days of the date you received this letter.** If you have any questions, please contact me at (803) 898-4318 or (800) 826-5435 (within SC).

Sincerely,

Paula Anderson

Paula Anderson, Hydrogeologist
Owner/Operator Assistance Section
Assessment and Corrective Action Branch

enc: Right of Entry Form

cc: Mr. George Souther, 280 Goodjoin Road, Campobello, SC 29322-9187
Mr. Jeremy Grant, NESCO, 521 Clemson Road, Columbia, SC 29229
Technical File
Read File

DHEC/UST/011002

D H E C
ROMOTE PROTECT PROSPER
500 Bull Street
olumbia, SC 29201-1708

UNDERGROUND STORAGE T K PROGRAM
BUREAU OF LAND AND WASTE MANAGEMENT

Phone (803) 898-4350 Fax (803) 898-4343

JAN 18 2002

Mr. Ricky F. and Ms. Carolyn E. Golightly
1265 Mt. Lebanon Road
Campobello, SC 29322-8739

Re: George Souther, 280 Goodjoin RoadCampobello, SC 29322-9187
UST Permit #08650
Access to your property located adjacent to George Souther
Spartanburg County

Dear Mr. and Ms. Golightly:

The Underground Storage Tank (UST) Program of the South Carolina Department of Health and Environmental Control (SCDHEC) is conducting work to assess a gasoline release reported at the George Souther facility. NESCO is currently conducting an environmental assessment and requires access to your property adjacent to the referenced facility in order to install temporary and permanent monitoring wells. You will be contacted regarding the location of the permanent monitoring wells and all efforts will be made to locate the wells near the perimeter of your property.

The permanent monitoring wells will be constructed in accordance with the South Carolina Well Standards and Regulations. They will be completed at grade and will have a small diameter manhole cover and concrete pad. They will not interfere with normal usage of your property. The temporary wells 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.

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Sincerely,

Paula Anderson

Paula Anderson, Hydrogeologist
Owner/Operator Assistance Section
Assessment and Corrective Action Branch

enc: Right of Entry Form

cc: Mr. George Souther, 280 Goodjoin Road, Campobello, SC 29322-9187
Mr. Jeremy Grant, NESCO, 521 Clemson Road, Columbia, SC 29229
Technical File
Read File

DHEC/UST/011002

D H E C
ROMOTE PROTECT PROSPER
600 Bull Street
olumbia, SC 29201-1708

UNDERGROUND STORAGE TANK PROGRAM
BUREAU OF LAND AND WASTE MANAGEMENT

Phone (803) 898-4350 Fax (803) 898-4343

JAN 18 2002

Ms. Annie L. Frady Wolfe
275 Goodjoin Road
Campobello, SC 29322-9187

Re: George Souther, 280 Goodjoin RoadCampobello, SC 29322-9187
UST Permit #08650
Access to your property located adjacent to George Souther
Spartanburg County

Dear Ms. Wolfe:

The Underground Storage Tank (UST) Program of the South Carolina Department of Health and Environmental Control (SCDHEC) is conducting work to assess a gasoline release reported at the George Souther facility. NESCO is currently conducting an environmental assessment and requires access to your property adjacent to the referenced facility in order to install temporary and permanent monitoring wells. You will be contacted regarding the location of the permanent monitoring wells and all efforts will be made to locate the wells near the perimeter of your property.

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NESCO previously sent you a letter requesting access to your property. **Please sign the enclosed SCDHEC right of entry form or the form from NESCO and return it to the attention of Paula Anderson within ten days of the date you received this letter.** If you have any questions, please contact me at (803) 898-4318 or (800) 826-5435 (within SC).

Sincerely,

Paula Anderson

Paula Anderson, Hydrogeologist
Owner/Operator Assistance Section
Assessment and Corrective Action Branch

enc: Right of Entry Form

cc: Mr. George Souther, 280 Goodjoin Road, Campobello, SC 29322-9187
Mr. Jeremy Grant, NESCO, 521 Clemson Road, Columbia, SC 29229
Technical File
Read File

DHEC/UST/011002

D H E C
ROMOTE PROTECT PROSPER
500 Bull Street
olumbia, SC 29201-1708

UNDERGROUND STORAGE ' K PROGRAM
BUREAU OF LAND AND WASTE MANAGEMENT

Phone (803) 898-4350 Fax (803) 898-4343

JAN 18 2002

Mr. Boyd J. Belcher
320 Goodjoin Road
Campobello, SC 29322-9102

Re: George Souther, 280 Goodjoin RoadCampobello, SC 29322-9187
UST Permit #08650
Access to your property located adjacent to George Souther
Spartanburg County

Dear Mr. Belcher:

The Underground Storage Tank (UST) Program of the South Carolina Department of Health and Environmental Control (SCDHEC) is conducting work to assess a gasoline release reported at the George Souther facility. NESCO is currently conducting an environmental assessment and requires access to your property adjacent to the referenced facility in order to install temporary and permanent monitoring wells. You will be contacted regarding the location of the permanent monitoring wells and all efforts will be made to locate the wells near the perimeter of your property.

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Sincerely,

Paula Anderson

Paula Anderson, Hydrogeologist
Owner/Operator Assistance Section
Assessment and Corrective Action Branch

enc: Right of Entry Form

cc: Mr. George Souther, 280 Goodjoin Road, Campobello, SC 29322-9187
Mr. Jeremy Grant, NESCO, 521 Clemson Road, Columbia, SC 29229
Technical File
Read File

DHEC/UST/011002

D H E C
ROMOTE PROTECT PROSPER
500 Bull Street
olumbia, SC 29201-1708

UNDERGROUND STORAGE T K PROGRAM
BUREAU OF LAND AND WASTE MANAGEMENT

Phone (803) 898-4350 Fax (803) 898-4343

JAN 18 2002

Ms. Becky Arms
143 N Way Drive
Landrum, SC 29356-9539

Re: George Souther, 280 Goodjoin RoadCampobello, SC 29322-9187
UST Permit #08650
Access to your property located adjacent to George Souther
Spartanburg County

Dear Ms. Arms:

The Underground Storage Tank (UST) Program of the South Carolina Department of Health and Environmental Control (SCDHEC) is conducting work to assess a gasoline release reported at the George Souther facility. NESCO is currently conducting an environmental assessment and requires access to your property adjacent to the referenced facility in order to install temporary and permanent monitoring wells. You will be contacted regarding the location of the permanent monitoring wells and all efforts will be made to locate the wells near the perimeter of your property.

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Sincerely,

Paula Anderson

Paula Anderson, Hydrogeologist
Owner/Operator Assistance Section
Assessment and Corrective Action Branch

enc: Right of Entry Form

cc: Mr. George Souther, 280 Goodjoin Road, Campobello, SC 29322-9187
Mr. Jeremy Grant, NESCO, 521 Clemson Road, Columbia, SC 29229
Technical File
Read File

DHEC/UST/011002

D H E C
ROMOTE PROTECT PROSPER
500 Bull Street
olumbia, SC 29201-1708

UNDERGROUND STORAGE ' K PROGRAM
BUREAU OF LAND AND WASTE MANAGEMENT

Phone (803) 898-4350 Fax (803) 898-4343

JAN 18 2002

Ms. Vinnie Faye Collins
107 Anderson Street
Spartanburg, SC 29301

Re: George Souther, 280 Goodjoin RoadCampobello, SC 29322-9187
UST Permit #08650
Access to your property located adjacent to George Souther
Spartanburg County

Dear Ms. Collins:

The Underground Storage Tank (UST) Program of the South Carolina Department of Health and Environmental Control (SCDHEC) is conducting work to assess a gasoline release reported at the George Souther facility. NESCO is currently conducting an environmental assessment and requires access to your property adjacent to the referenced facility in order to install temporary and permanent monitoring wells. You will be contacted regarding the location of the permanent monitoring wells and all efforts will be made to locate the wells near the perimeter of your property.

The permanent monitoring wells will be constructed in accordance with the South Carolina Well Standards and Regulations. They will be completed at grade and will have a small diameter manhole cover and concrete pad. They will not interfere with normal usage of your property. The temporary wells 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.

NESCO previously attempted to send you a letter requesting access to your property. A copy of the letter is enclosed. **Please sign the enclosed SCDHEC right of entry form or the form from NESCO and return it to the attention of Paula Anderson within ten days of the date you received this letter.** If you have any questions, please contact me at (803) 898-4318 or (800) 826-5435 (within SC).

Sincerely,

Paula Anderson

Paula Anderson, Hydrogeologist
Owner/Operator Assistance Section
Assessment and Corrective Action Branch

enc: Right of Entry Form
Letter from NESCO

cc: Mr. George Souther, 280 Goodjoin Road, Campobello, SC 29322-9187
Mr. Jeremy Grant, NESCO, 521 Clemson Road, Columbia, SC 29229
Technical File
Read File

DHEC/UST/011002

NESCO

Ingenuity At Work

FAX TRANSMITTAL FORM

521 Clemson Road
Columbia, SC 29229
Tel: (803) 699-1976
Fax: (803) 699-9863

TO: SCDHEC UST Division
ATTENTION: Paula Anderson
FAX NUMBER: 898-4330
FROM: Brad DeFee
SUBJECT: Southern Energy

Page 1 of 3 **(including this page)**
DATE: 1/10/01
PROJECT NUMBER:
Hard copy to be mailed: Yes ☐ No ☒

ATTENTION: The information contained in this fax is privileged and/or confidential, intended only for the individual/entity named above. Please forward it to the recipient immediately. If there are any difficulties with this facsimile transmission or you have received this fax in error, please telephone (803) 699-1976 or fax (803) 699-9863.

Paula,

Here is the letter, thanks for the help.

Brad

Ingenuity At Work

NESCO

NESCO, Inc.
521 Clemson Road
Columbia, South Carolina 29229
Telephone 803-699-1976

Telefax 803-699-9863
Toll Free 1-800-379-3688

www.nesco-usa.com

VIA CERTIFIED MAIL
November 1, 2001

Ms. Vinnie Faye Collins
107 Anderson St.
Spartanburg, SC 29301

Re: ***Site Access To Install Monitoring Wells To Collect Water Samples***

Dear Ms. Collins:

NESCO, Inc. is currently conducting an environmental assessment for Mr. George Souther at the intersection of Goodjoin Rd. and Mt. Lebanon Rd. in Campobello, South Carolina. The assessment activities are being conducted under the direction of the South Carolina Department of Health and Environmental Control (SCDHEC). It is our understanding that you are the owner of the property indicated on Spartanburg County Tax Map 1-37-00-047.02, 0 Goodjoin Rd., which is adjacent to the property referenced above. In order to complete the assessment, NESCO Inc. in conjunction with the SCDHEC, has determined that it will be necessary to install ground-water monitoring wells on your property. On behalf of SCDHEC, NESCO, Inc. is requesting permission to install monitoring wells to collect water samples on your property. The purpose of this well will be to help delineate the extent of groundwater impact from petroleum contamination so that the best option for site cleanup can be determined, if needed.

The monitoring wells will consist of two-inch holes each drilled to an approximate depth of 30 feet. Water will be sampled from the well and you may be provided with a copy of the results of the analysis if you so request. The completed well head will consist of a small, flush mounted manhole cover set within a one to two foot concrete pad.

Attached is a site access agreement. By signing this letter of acceptance, you will be authorizing NESCO to perform the scope of work outlined above. You will not incur any costs for any of this work. The assessment will be funded entirely by SCDHEC. I have enclosed a self-addressed stamped envelope for you to return the authorization. It would also help if you could also give a phone number for us to contact you, to let you know when we would be coming to conduct the fieldwork.

Please call me at (803) 699-1976 if you have any questions about the site access authorization or about the process of installing the monitoring well. We will take utmost care not to disturb the property and we appreciate your time and attention in this matter. Your cooperation will help assess the area as quickly and accurately as possible.

Sincerely,
NESCO, Inc.

Brad Defee
Environmental Scientist

SITE ACCESS AGREEMENT

NESCO, Inc., is hereby granted permission to install permanent monitoring wells for the purposes of taking water samples at the property indicated on Spartanburg County Tax Map as 1-37-00-047.02. This well will be installed as per SCDHEC standards and regulations. The work will be subject to the following conditions:

1. Access to the site shall be limited to NESCO personnel and its subcontractors.

2. Prior notification of field activities will be provided 24 hours before work begins **(Please include a telephone number where you can be contacted).**

3. Access to the property shall be limited to as much of the surrounding property as required to install the monitor wells.

4. Any wastewater and soil generated during the field activities will be removed off-site upon completion of field activities.

5. NESCO agrees to indemnify, defend, and hold harmless the property owner from any loss or liability, financial or otherwise, resulting from any claim, demand suit, action, or cause of action alleging bodily injury, death and/or property damage in any way arising out of, either directly or indirectly, the installation of the monitor well on the above described property.

AUTHORIZATION:

_____
Signature

_____
Witness

_____ / / _____
Name (Print) Date

PHONE NUMBER: _____

D H E C
PROMOTE PROTECT PROSPER
2600 Bull Street
Columbia, SC 29201-1708

UNDERGROUND STORAGE TANK PROGRAM
BUREAU OF LAND AND WASTE MANAGEMENT
Phone (800) 826-5435 Fax (803) 898-4330

OCT 15 2001

Mr. George Souther
280 Goodjoin Road
Campobello, SC 29322-9187

Re: Souther's Grocery
UST Permit #08650 CP #7717; MWA #15503
Release Reported: December 31, 1991
Tier II Assessment Plan received September 25, 2001
Spartanburg County

Dear Mr. Souther:

The Underground Storage Tank 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. SCDHEC has reviewed the Tier II Plan and associated Assessment Component Cost Proposal for continued work at this site submitted by NESCO.

The next scope of work to be implemented at this site is a Tier II Assessment. Cost Proposal #7717 has been approved in the amount shown on the enclosed Assessment Component Cost Agreement (ACCA) to complete the necessary work. Please be advised that only EPA Method 8260B will be accepted for purgeable aromatics. Please note the following changes made to the Assessment Component Cost Agreement.

- Item 3 (Comprehensive Survey) was removed because this work was previously done and new work can be surveyed under item 16 (Subsequent Survey).
- Item 4B (Mobilization/Demobilization Personnel) has been reduced to five, as an additional personnel mobilization should not be necessary to perform one slug test (Item 12B).
- Item 11C (PAH's Groundwater Analyses) has been removed because the only PAH constituent with levels above the detection limit was Naphthalene which will be analyzed under item 11A (BTEX+Napth.+MTBE).
- Item 11P (PAH's Soil Analyses) has been removed for the same reason as item 11C.
- Item 12B (Slug Test) has been reduced to one as three slug tests have already been performed at the site in the shallow wells. The slug test should be performed for the deep well.
- Item 13 (Free Product Recovery Rate Test) has been removed, as it is not necessary at this time.

NESCO can submit an invoice for direct billing from the SUPERB Account. Please note that all applicable South Carolina certification requirements apply to the laboratory services, well installation, and report preparation. Approval for the installation of eight shallow and one deep groundwater monitoring wells has been provided to your environmental consultant; a copy is enclosed for your records.

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 Department 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 or excessive.** The SCDHEC reserves the right to audit project records at any time during the project or after completion of work.

Rehabilitation activities at the site should be resumed immediately upon receipt of this letter. Characterization of all exposure pathways shall be completed using field screening points. Based on the field screening results, monitoring wells shall be installed in appropriate locations to monitor the migration of chemicals of concern along these exposure pathways and for site rehabilitation. **The Department shall be contacted prior to well installation for concurrence regarding the final well locations.** Final monitoring wells shall be properly installed and bracketed at the water table.

A Report of Findings and the invoice are due within 90 days from the date of this letter. 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 the following changes have been made to the Risk Based Corrective Action (RBCA) Document (effective May 15, 2001):

- **EDB Analysis must be performed by EPA Method 8011. The Risk Based Screening Level (RBSL) has been revised to 0.05 µg/L in order to meet the Federal Maximum Concentration Level (MCL) for this constituent.**
- **The minimum separation distance for conducting the soil leachability model (Appendix C) has been revised to eight feet.**
- **The Risk Based Screening Levels (RBSLs) for soils have been revised.**
- **Soil Vapor and Remediation by Natural Attenuation (RNA) Models are included in Appendix F of the May 2001 RBCA Document.**

The Bureau of Land and Waste Management grants pre-approval for transportation of virgin petroleum contaminated groundwater/soil from the referenced site to a permitted treatment facility. The contaminated groundwater/soil must be properly stored in labeled containers or covered with plastic as appropriate. The contaminated groundwater/soil must be accepted by the approved treatment facility. There can be no spillage or leakage in transport. 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 final report. If the levels of petroleum contamination based on laboratory analysis are below risk-based screening levels, please contact the project manager for approval to dispose of soil and/or groundwater on site. The SUPERB Account will not compensate for transportation or treatment of clean soil and/or groundwater.

On all correspondence concerning this site, please reference **UST Permit #08650 and Cost Proposal #7717**. If there are any questions concerning this project, please contact me at (803) 898-4318 or (800) 826-5435 (within South Carolina only).

Sincerely,

Paula Anderson

Paula Anderson, Hydrogeologist
Owner/Operator Assistance Section
Assessment & Corrective Action Division

enc: Finance Approved Assessment Component Cost Agreement
Monitoring Well Approval (copy)

cc: Mr. Jeremy Grant, NESCO, 521 Clemson Road, Columbia, SC 29229 (with original MWA and copy of Finance Approved Assessment Component Cost Agreement)
Financial File (with copy of Finance Approved Assessment Component Cost Agreement)
Technical File (with copy of MWA)
Read File

SCDHEC/UST/092701

D-H E C
PROMOTE PROTECT PROSPER
1600 Bull Street
Columbia, SC 29201-1708

Monitoring Well Installation Approval Form

Date of Issue: September 27, 2001

Approval No.: UMW-15503

Approval is hereby granted to: NESCO
On behalf of: Souther's Grocery
UST Permit #: 08650
County: Spartanburg

This approval is for the construction of field screening and nine permanent wells in accordance with the construction plans and technical specifications of the Tier II guidance document. The SUPERB Account does not pay the replacement of wells. The well(s) are to be constructed within the surficial aquifer for the intended purpose of monitoring ground-water quality and/or water level(s) at the referenced facility. Approval is provided with the following conditions:

1. The latitude and longitude, surveyed elevations, boring and/or geologist logs and actual (as built) construction details for each well will be submitted with the technical report.

2. Each well will be labeled with an identification plate constructed of a durable material affixed to the casing or surface pad where it is readily visible. The plate will provide monitoring well I.D.#, date of construction, static water level, and driller name and state certification #.

3. Well construction and sampling derived waste including, but not necessarily limited to, drill cuttings, drilling fluids, development and purge water should be managed properly and in compliance with applicable requirements. If containerized, each vessel should be clearly labeled with regard to contents, source, and date of activity.

4. A minimum of forty-eight (48) hours prior to initiation of drilling activities, please provide notice to Paula Anderson at (803) 898-4318 or anderspe@dhec.state.sc.us.

5. Please provide ground-water quality analytical data (chemical analysis and/or water level(s)) and associated measurements (i.e., in-situ field measurements) to me with the technical report.

6. Monitoring wells and temporary monitoring wells will be installed by or under the direct supervision of a licensed well driller certified by the State of South Carolina.

7. Monitoring wells and temporary monitoring wells will be abandoned by or under the direct supervision of a licensed well driller certified by the State of South Carolina. Temporary monitoring wells shall not remain in place for longer than 30 days from the date of installation. Monitoring wells may be abandoned only upon concurrence by this Bureau.

This approval is pursuant to the provisions of Section 44-55-40 of the 1976 South Carolina Code of Laws and the Department of Health and Environmental Control Regulations R.61-71. Please remember to have a copy of this approval on the site during well installation.

Approved by: Paula Anderson

Paula Anderson, Hydrogeologist
Owner/Operator Section
Bureau of Land and Waste Management

cc: Appalachia III EQC
Mr. George Souther, 280 Goodjoin Road, Campobello, SC 29322-9187

ASSESSMENT COMPONENT COST PROPOSAL

SOUTH CAROLINA
Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
State Underground Petroleum Environmental Response Bank

Site Name Souther's Grocery

Site ID # 08650 CP# 3441 Addendum 2

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1. Plan Preparation*		x	$100.00	$0.00
2. Receptor Survey*		x	$500.00	$0.00
3. Comprehensive Survey		x	$1,000.00	$0.00
4. Mob/Demob				
A. Equipment		x	$500.00	$0.00
B. Personnel		x	$250.00	$0.00
5. Soil Borings (hand augered)*		feet x	$11.00	$0.00
6. Soil Borings (drilled)	(includes collection and quantification)			
and Field Screening*	184	feet x	$17.00	$3,128.00
7. Soil Leachability Model		x	$200.00	$0.00
8. Abandonment* (separate from #5 and #6)	184	feet x	$4.00	$736.00
9. Well Installation*	(includes drilling costs)			
A. Water Table (hand auger)		feet x	$17.00	$0.00
B. Water Table		feet x	$35.00	$0.00
C. Telescoping		feet x	$55.00	$0.00
D. Rock Drilling		feet x	$55.00	$0.00
10. Ground-water sample collection		samples x	$55.00	$0.00
11. Analyses-Groundwater	(See RA Guidance for site specific analyses)			
A. BTEX+Napth.+MTBE		samples x	$100.00	$0.00
B. BTEX+Napth.+MTBE+Trimethylbenzene		samples x	$135.00	
C. PAH's		samples x	$120.00	$0.00
D. Lead		samples x	$20.00	$0.00
E. EDB		samples x	$55.00	$0.00
F. 8 RCRA Metals		samples x	$140.00	$0.00
G. TPH (9070)		samples x	$55.00	$0.00
H. pH		samples x	$10.00	$0.00
I. BOD		samples x	$40.00	
J. Nitrate		samples x	$20.00	
K. Sulfate		samples x	$20.00	
L. Ferrous Iron		samples x	$40.00	$0.00
Analyses-Soil				
M. BTEX + Napth.		samples x	$100.00	$0.00
N. PAH's		samples x	$120.00	$0.00
O. 8 RCRA Metals		samples x	$150.00	$0.00
P. TPH (9071)		samples x	$60.00	$0.00
Q. TPH (3550)		samples x	$65.00	$0.00
R. Grain size / hydrometer		samples x	$63.00	$0.00
S. Total Organic Carbon		samples x	$35.00	$0.00
12. Aquifer Characterization*				
A. Pumping Test		hours x	$120.00	$0.00
B. Slug test		tests x	$150.00	$0.00
13. Free Product Recovery Rate Test*		tests x	$120.00	$0.00
14. Fate & Transport Modeling				
A. Mathematical Model		models x	$300.00	$0.00
B. Computer Model		models x	$500.00	$0.00
15. Risk Evaluation				
A. Tier I		x	$300.00	$0.00
B. Tier II		x	$500.00	$0.00
16. Subsequent Survey*		x	$260.00	$0.00
17. Disposal				
A. Wastewater				
1. Purging/Sampling		drums x	$90.00	$0.00
2. Pumping test		gallons x	$0.60	$0.00
B. Free Product		drums x	$110.00	$0.00
C. Soil (Treatment/Disposal)*		tons x	$50.00	$0.00
		drums x	$50.00	$0.00
18. Miscellaneous Attach paid invoice receipts				
		x		$0.00
		x		$0.00
		x		$0.00
		x		$0.00
19. Report/Project Management			(SUBTOTAL)	
and Coordination	0.15	x	$3,864.00	$579.60
20. Total				$4,443.60

Addendum	
Previously Approved	$19,518.95
Increase	$4,443.60
New Approved Total	$23,962.55
Project Manager	KM 12/5
Section Manager	LM 12/5
Finance	12-9
Date	/ /

# of pages	Date 12/ 05 /97
Larry Mattila	From: sriram
Co/Dept. SRK	UST/SCDHEC
fax # 790-0699	734-03604
Phone # 780-0602	734-0723

fax it right

* The appropriate Mobilization cost can be added to this cost

ASSESSMENT COMPONENT COST PROPOSAL

SOUTH CAROLINA
Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
State Underground Petroleum Environmental Response Bank

Site Name Souther's Grocery
Site ID # 08650 CP# 03441 Addendum

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1. Plan Preparation*		x	$100.00	$0.00
2. Receptor Survey*		x	$500.00	$0.00
3. Comprehensive Survey		x	$1,000.00	$0.00
4. Mob/Demob				
A. Equipment (6)	1	x	$500.00	$500.00
B. Personnel (8)	1	x	$250.00	$250.00
5. Soil Borings (hand augered)*		feet x	$11.00	$0.00
6. Soil Borings (drilled) and Field Screening* 10 X 16'	(includes collection and quantification) 160	feet x	$17.00	$2,720.00
7. Soil Leachability Model		x	$200.00	$0.00
8. Abandonment* (separate from #5 and #6)	160	feet x	$4.00	$640.00
9. Well Installation*	(includes drilling costs)			
A. Water Table (hand auger)		feet x	$17.00	$0.00
B. Water Table		feet x	$35.00	$0.00
C. Telescoping		feet x	$55.00	$0.00
D. Rock Drilling		feet x	$55.00	$0.00
10. Ground-water sample collection	10	samples x	$55.00	$550.00
11. Analyses-Groundwater	(See RA Guidance for site specific analyses)			
A. BTEX+Napth.+MTBE	10	samples x	$100.00	$1,000.00
B. BTEX+Napth.+MTBE+Trimethylbenzene		samples x	$135.00	
C. PAH's		samples x	$120.00	$0.00
D. Lead	10	samples x	$20.00	$200.00
E. EDB	10	samples x	$55.00	$550.00
F. 8 RCRA Metals		samples x	$140.00	$0.00
G. TPH (9070)		samples x	$55.00	$0.00
H. pH		samples x	$10.00	$0.00
I. BOD		samples x	$40.00	
J. Nitrate		samples x	$20.00	
K. Sulfate		samples x	$20.00	
L. Ferrous Iron		samples x	$40.00	$0.00
Analyses-Soil				
M. BTEX + Napth.		samples x	$100.00	$0.00
N. PAH's		samples x	$120.00	$0.00
O. 8 RCRA Metals		samples x	$150.00	$0.00
P. TPH (9071)		samples x	$60.00	$0.00
Q. TPH (3550)		samples x	$65.00	$0.00
R. Grain size / hydrometer		samples x	$63.00	$0.00
S. Total Organic Carbon		samples x	$35.00	$0.00
12. Aquifer Characterization*				
A. Pumping Test		hours x	$120.00	$0.00
B. Slug test		tests x	$150.00	$0.00
13. Free Product Recovery Rate Test*		tests x	$120.00	$0.00
14. Fate & Transport Modeling				
A. Mathematical Model		models x	$300.00	$0.00
B. Computer Model		models x	$500.00	$0.00
15. Risk Evaluation				
A. Tier I		x	$300.00	$0.00
B. Tier II		x	$500.00	$0.00
16. Subsequent Survey*		x	$260.00	$0.00
17. Disposal				
A. Wastewater				
1. Purging/Sampling		drums x	$90.00	$0.00
2. Pumping test		gallons x	$0.60	$0.00
B. Free Product		drums x	$110.00	$0.00
C. Soil (Treatment/Disposal)*		tons x	$50.00	$0.00
		drums x	$50.00	$0.00
18. Miscellaneous Attach paid invoice receipts		x		$0.00
		x		$0.00
		x		$0.00
		x		$0.00
19. Report/Project Management and Coordination	0.15	x	(SUBTOTAL) $6,410.00	$961.50
20. Total				$7,371.50

* The appropriate Mobilization cost can be added to this cost

Addendum	
Previously Approved	$12,147.45
Increase	$7,371.50
New Approved Total	$19,518.95
Project Manager	SH 11/14
Section Manager	DM 11/18
Finance	AB 11-19
Date	/ /

# of pages	Date 11/14/97
Larry Mattila	From: sriram
Co/Dept. SRK	UST/SCDHEC
fax # 790-0699	734-03604
Phone # 780-0602	734-0723

fax it right

NATIONAL
ENVIRONMENTAL
SERVICE COMPANY

March 15, 1999

NESCO
For Practical Solutions.

Mr. Sriram Madabhushi
South Carolina Department of Health and Environmental Control
Division of Underground Storage Tank Management
2600 Bull Street
Columbia, SC 29201

RECEIVED
MAR 1 6 1999
DIVISION OF UNDERGROUND
STORAGE TANK MGMT

1941 Decker Boulevard
Columbia, South Carolina 29206
803-790-0602

Fax 803-790-0699

Re: Southers Store
Cost proposal
Facility ID #8650

Dear Mr. Madabhushi:

You indicated in a phone conversation with Blake Burgess of NESCO that it is time for another sampling event at the above-mentioned site. Enclosed is a cost proposal for this work for your review. This cost proposal includes the cost of sampling the monitoring wells already present at this site as well as the private well under the convenience store and the public supply well in the vicinity.

Should you have any questions or comments, please feel free to contact me at (803) 790-0602.

Sincerely,

Larry Mattila, PG
Environmental Manager

Andrea Smith, E.I.T.
Environmental Engineer

Site ID # N-42-NO-6659 Facility Name George Southes

Triage Date 9/28/98 Triaged By RGF

TRIAGE (Indicate type of submittal)

CR* ____

AR ____

SC ____

RLS ____

TST ____

MWR ____

TofO* ____

Other ✓ Rapid Assessment Addendum

Date Reported To Bureau: 9/28/98

Project Manager Assigned: ~~[illegible]~~ Madakushi

REPORT RANKING

A (Free Product, Sheen on GW) ____

B (GW contamination >MCL) ____

C (Soil contamination >RBSLs) ____

D (Soil contamination <RBSLs) ____

E (No contamination documented) ____

F (Incomplete submittal) ____

RELEASE REPORT CLASSIFICATION

Free Product (Forward to MBerenbrok) ____

TST Failure (tank/line/lld) ____

SIR (Fail/2 Months Inconclusive) ____

Soil or GW Contamination ____

TANK SYSTEM STATUS

System CIU or TOU (product in USTs) ____

System ABD or TOU (USTs closed/USTs are empty) ✓

DATABASE LOG-IN/CHANGE (* = Needs database change)

Submittal(s) Logged-In By: _____

Database Changes Given To: _____

D H E C
PROMOTE PROTECT PROSPER
2600 Bull Street
Columbia, SC 29201-1708

BUREAU OF
UNDERGROUND STORAGE TANK MANAGEMENT
ASSESSMENT AND CORRECTIVE ACTION DIVISION

Phone (803) 734-0723 Fax (803) 734-3604

May 29, 1997

Southers Grocery
Attn.: George E. Souther
195 Goodjojn Road
Campobello, South Carolina 29322

Re: George Souther
Site ID: #08650 and CA#03441
Rapid Assessment Plan and Assessment Cost Proposal received April 11, 1997
Spartanburg County

Dear Mr. Souther:

The Bureau of Underground Storage Tank Management of the South Carolina Department of Health and Environmental Control has reviewed the Cost Proposal. Rehabilitation activities at the site should be resumed immediately upon receipt of this letter. Characterization of all exposure pathways should be completed using field screening points. Please contact the department if well installation is required for completion of the assessment.

The Cost agreement is approved for a total of $12,147.45. This includes the adjustment of the following rates and/or site rehabilitation activities proposed in the cost proposal to insure compliance with current SUPERB program criteria per Section 44-2-20(2):

- Item 2: One Receptor Survey is approved.
- Item 3: Comprehensive survey is not approved as a survey was already performed at this site. A subsequent survey is approved.
- Item 19: Intrinsic parameters - including methane - are approved for analyses.
- Item 18: Report/Project Management and Coordination costs have been adjusted to reflect the above changes.

All applicable S. C. certification requirements must be maintained for the laboratory services, well installation and report preparation. An assessment report, as outlined in the Rapid Assessment document, and the associated invoice should be submitted by July 25, 1997.

Only one invoice is acceptable for this scope of work. If the invoice is not submitted by September 25, 1997, 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.

DHEC/UST/ACAD/O-O/sm/970529

Please reference site ID#08650 and Cost Agreement #03441 on all correspondence regarding this site. Questions concerning the above should be addressed to the attention of Sriram Madabhushi.

sm08650ncp

Sincerely,

Owner/Operator Assistance Section

Sriram Madabhushi

Sriram Madabhushi, Hydrologist

Lee A. Monts

Lee A. Monts, Manager

enc: Approved Assessment Component Cost Proposal

cc: Larry Mattila, SR&K, 1941 Decker Blvd., Columbia, SC 29206

South Carolina
DHEC
Department of Health and Environmental Control
2600 Bull Street, Columbia, SC 29201-1708

Commissioner: Douglas E. Bryant

Board: John H. Burriss, Chairman
William M. Hull, Jr., MD, Vice Chairman
Roger Leaks, Jr., Secretary
Richard E. Jabbour, DDS
Cyndi C. Mosteller
Brian K. Smith
Rodney L. Grandy

Promoting Health, Protecting the Environment

RD 10-15-96 DW

OCT 15 1996

George E. Souther
195 Goodjoin Road
Campobello, SC 29322

Re: Souther's Grocery
GWPD Site ID: #08650
Expanded Assessment Report received March 2, 1994
Spartanburg County

Dear Mr. Souther:

Currently, the release reported December 31, 1991 at the referenced site has a priority classification of 3B based on the report of free product. Therefore, SUPERB funds are available to implement the next necessary scope of work. The scope of work to be implemented is completion of a Rapid Assessment (RA) to determine the extent of soil and ground-water chemicals of concern.

As the Owner or Operator of the Underground Storage Tanks (USTs) for this site, you have two funding options for proceeding with implementation of the scope of work indicated above:

Funding Option 1

You or your contractor can receive direct billing from the fund at the SUPERB allowable costs. If you need assistance in finding a contractor, please let us know and we will provide you with a list of companies for you to contact. If you wish to proceed under this option and you do not require assistance, **please inform this office of your selected contractor within 5 days. Please have your contractor complete and submit the enclosed Assessment Component Cost Proposal form and Rapid 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 SUPERB allowable cost for each component is included on the Assessment Cost Proposal form.

Funding Option 2

The SCDHEC will directly procure the services of an environmental contractor on your behalf. All activities will be directed and coordinated by SCDHEC and you will be informed of the results. **If you wish to use this option, please complete the enclosed Right-Of-Entry form.** Completed Right-Of-Entry forms are needed from both the underground storage tank and property owners. If you own the underground storage tank

but do not own the property, please provide a copy of the appropriate form to the property owner and return the completed forms **within ten days of receipt of this letter.**

On all correspondence regarding this site, please reference site ID #08650. Please be sure to include the requested information so that the appropriate approvals can be issued. **Note: both technical and financial approval from the Department must be issued before work begins.** Please feel free to call me at (803) 734-0890 if you have questions or need additional information.

Sincerely,

Arthur Shrader, Hydrogeologist
State Lead and Field Services Section
Assessment and Corrective Action Divison
Bureau of Underground Storage Tank Management

enc: Rapid Assessment Plan
Assessment Component Cost Agreement
Right-Of-Entry Form

cc: Technical File
Reading File

DHEC/UST/091496

South Carolina
DHEC
Department of Health and Environmental Control
2600 Bull Street, Columbia, SC 29201-1708

Commissioner: Douglas E. Bryant

Board: John H. Burriss, Chairman
William M. Hull, Jr., MD, Vice Chairman
Roger Leaks, Jr., Secretary

Richard E. Jabbour, DDS
Cyndi C. Mosteller
Brian K. Smith
Rodney L. Grandy

Promoting Health, Protecting the Environment

JUL 19 1996

Ecological Services, Incorporated
ATTN: Ross Klingman, Director of Operations
620 North I-85 Service Road
Charlotte, NC 28216

Re: **Request to Use Fast Wells**
Circle Amoco
Site ID: #08650
Spartanburg County

Dear Mr. Klingman:

The Bureau of Underground Storage Tank Management has reviewed Ecological Services Incorporated's request to install "fast wells" at the referenced site. To insure these wells meet the standards as outlined in South Carolina Well Standards and Regulations, R. 61-71, this Bureau requests a demonstration of the "fast well" on SCDHEC property located in Columbia, South Carolina. ESI should be prepared to provide and perform the following items and tasks for evaluation by SCDHEC personnel:

- Prove a list of all "fast well" components and materials (i.e. well access cover, ABC Brand, from ½ inch steel plate with three locking bolts; concrete pad, Giant Cement sand and gravel mix; etc.).

- Install a "fast well" using ESI standard and established practices under the supervision of a licensed South Carolina well driller to a minimum depth of 25 feet.

- Remove both screens, or provide a demonstration that the screens on both the 2-inch and 1-inch schedule 40 PVC pipe of the "fast well" are not crushed, collapsed, or deformed to the point that ground-water flow would be affected.

- Develop, purge, and sample the "fast well".

- Conduct a SLUG test in the "fast well", and based on the observed data, calculate the hydraulic conductivity, storativity, and transmissivity for a water table or unconfined aquifer 60 feet thick.

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- Abandon the installed well in accordance with SC Well Standards.

The demonstration and submission of all requested data will be at the cost of ESI. The State of South Carolina or SCDEC will not reimburse or compensate ESI in any way for a demonstration of the "fast well".

Please contact Arthur Shrader at (803) 734-0890 a minimum of one week prior to the proposed installation date to coordinate the date, time, and the exact location in Columbia, SC for installation of the "fast well".

Sincerely,

Technical Section
Bureau of Underground Storage Tank Management

Arthur Shrader, Hydrologist

David G. Baize, Manager

enc: South Carolina Well Standards and Regulations

cc: Scott McInnis, Federal Section

South Carolina
DHEC
Department of Health and Environmental Control
2600 Bull Street, Columbia, SC 29201

Commissioner: Douglas E. Bryant

Board: Richard E. Jabbour, DDS, Chairman
Robert J. Stripling, Jr., Vice Chairman
Sandra J. Molander, Secretary

John H. Burriss
William M. Hull, Jr., MD
Roger Leaks, Jr.
Burnet R. Maybank, III

Promoting Health, Protecting the Environment

November 14, 1994

LandRec, Incorporated
ATTN: Mr. Paul A. Calvo
Post Office Box 50528
Columbia, SC 29223

Re: Souther's Grocery
GWPD ID: #08650
Invoice #940233-1 received September 29, 1994
Spartanburg County
REQUEST FOR SUPERB FUNDS

Mr. Calvo:

We have not received the information and/or documentation previously requested on October 11, and 17, 1994 for an original signature on the referenced invoice by you. The request for a signature by the responsible party on the referenced invoice was received October 13, 1994. Your request for SUPERB payment is still incomplete and cannot be processed at this time; therefore, the referenced invoice is being returned. If you have any questions, please call me at (803) 734-0890.

Sincerely,

Arthur Shrader, Hydrogeologist
UST Federal Corrective Action Section
Groundwater Protection Division
Bureau of Drinking Water Protection

enc: Invoice #940233-1
SCDHEC letter October 17, 1994

cc: Mr. George Souther, Souther's Grocery
Pat Holland, F&DM

Letter II-PM - Req.info./return 12/10/93

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20

South Carolina
DHEC
Department of Health and Environmental Control
2600 Bull Street, Columbia, SC 29201

Commissioner: Douglas E. Bryant

Board: Richard E. Jabbour, DDS, Chairman
Robert J. Stripling, Jr., Vice Chairman
Sandra J. Molander, Secretary

William E. Applegate, III,
John H. Burriss
Tony Graham, Jr., MD
John B. Pate, MD

Promoting Health, Protecting the Environment

June 8, 1994

Fred Lyke
SPATCO Environmental Services
400 Arbor Lake Drive, Suite A-800
Columbia, SC 29223-4535

Re: Souther's Grocery
GWPD Site ID: #08650
Resubmittal of Direct Contractor Invoice #12771 received June 2, 1994
Spartanburg County

Dear Mr. Lyke:

The referenced request for reimbursement has been reviewed by the Ground-Water Protection Division of the South Carolina Department of Health and Environmental Control (SCDHEC). Based on your letter, Carol L. Smith of the SCDHEC Laboratory Certification Section reviewed the certification of Analytical Services, Incorporated (laboratory number 98011). Analytical Services, Incorporated (ASI) is certified in the State of South Carolina for selected methods. However, ASI is not certified to perform EPA method 610 using either GC-FID or HPLC-UV/Fluor methods. Since ASI is not certified to perform EPA method 610, your request for reconsideration in the amount of $1,085.00 is denied.

On all future correspondence, please reference the **GWPD Site ID number 08650.** Questions concerning the above should be addressed to my attention at (803) 734-0890.

Sincerely,

UST Federal Corrective Action Section
Ground-Water Protection Division
Bureau of Drinking Water Protection

Arthur Shrader, Hydrogeologist

Christopher S. Doll, P.G., Manager

cc: George Souther, Souther's Grocery
Carol L. Smith, Laboratory Certification
Brad Keith, Appalachia III District EQC
F&DM Section, GWPD

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South Carolina
DHEC
Department of Health and Environmental Control
2600 Bull Street, Columbia, SC 29201

Commissioner: Douglas E. Bryant

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Robert J. Stripling, Jr., Vice Chairman
Sandra J. Molander, Secretary

William E. Applegate, III,
John H. Burriss
Tony Graham, Jr., MD
John B. Pate, MD

Promoting Health, Protecting the Environment

Expiration Date: May 20, 1994

Paul Calvo
Land Rec, Inc.
Post Office Box 50528
Columbia, SC 29250-0528

Re: Souther's Grocery
GWPD Site ID: #08650
Spartanburg County

Dear Mr. Calvo:

This office hereby grants approval to Land Rec, Inc. for the transport of approximately 4 cubic yards of virgin gasoline/diesel contaminated soils from the referenced underground storage tank facility to the Land Rec, Inc. Dirt Gin in Orangeburg, South Carolina.

The following restrictions apply to all treatments:

1. Prior approval must be obtained from the appropriate bioremediation treatment facility officials.
2. The waste must be compatible with the treatment facility and not adversely affect the safe and efficient operation of the unit.
3. There can be no spillage or leakage during transport.
4. The DHEC Lower Savannah Solid Waste Consultant (Woody Barnes, (803) 641-7670) must be notified of the proposed soil treatment location 72 hours in advance.
5. Weekend or holiday transport is prohibited without prior notification of the District Solid Waste Consultant.
6. All State and Federal Air Quality Regulations must be strictly complied with.
7. This approval will be for **ninety days only**. The company must notify this office in writing when a new approval letter is to be issued.

NOTE: After successful treatment, a request to transport the treated soils to Super Sod in Orangeburg must be submitted to the GWPD. Laboratory analytical results documenting treatment to below 10 mg/kg Total Petroleum Hydrocarbons (EPA method 3550) and 1 mg/kg total benzene, toluene, ethylbenzene, and xylenes (EPA method 602) must be submitted with this request. Two composite soil samples from each "batch" of soils (up to 100 cubic yards) must be obtained for laboratory analysis. One additional composite soil sample for every additional 200 cubic yards of treated soil must also be obtained for laboratory analysis.

Sincerely,

Arthur Shrader, Hydrogeologist
UST Federal Corrective Action Section
Ground-Water Protection Division
Bureau of Drinking Water Protection

cc: Woody Barnes, Lower Savannah District EQC
Larry Bunn, Air Quality Control
Harold Seabrook, Bureau of Solid & Hazardous Waste Management
George E. Souther
Brad Keith, Appalachia III District EQC

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South Carolina
DHEC
Department of Health and Environmental Control
2600 Bull Street, Columbia, SC 29201

Commissioner: Douglas E. Bryant

Board: Richard E. Jabbour, DDS, Chairman
Robert J. Stripling, Jr., Vice Chairman
Sandra J. Molander, Secretary

William E. Applegate, III,
John H. Burriss
Tony Graham, Jr., MD
John B. Pate, MD

Promoting Health, Protecting the Environment

February 22, 1994

George E. Souther
195 Goodjoin Road
Campobello, SC 29322

Re: Souther's Grocery
GWPD Site ID: #08650
Request to Move Soils received February 14, 1994
Spartanburg County

Dear Mr. Souther:

The Ground-Water Protection Division of the South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed the above referenced request. Based on the analytical results submitted (all samples below detection limits) for the approximately **100 cubic yards of gasoline contaminated stockpiled soil at the site**, the soil contains no significant contamination and **can be spread on site or used at your discretion** at another location. The analytical results for the 2 cubic yards of well cuttings and 2 drums of hydrocarbon contaminated soils from well cuttings indicate significant levels of diesel contamination (i.e. 2,210,000 micrograms per kilogram (ug/kg) total petroleum hydrocarbons as diesel) and require treatment. Approval for transportation of the **two drums of hydrocarbon contaminated soils from well cuttings has been issued to LandRec, Incorporated**; a copy of the approval form is enclosed for your records. Please be advised that SUPERB will pay for the above referenced analyses and for transport and treatment of the two drums of contaminated soil. SUPERB will not pay for further analyses, removal, transportation, or treatment of the stockpiled soils.

On all future correspondence concerning this site, please reference GWPD number 08650. If you have any questions, feel free to contact Arthur Shrader at (803) 734-0890.

Sincerely,

Arthur Shrader, Hydrogeologist
UST Federal Corrective Action Section
Ground-Water Protection Division
Bureau of Drinking Water Protection

Christopher S. Doll, P.G., Manager
UST Federal Corrective Action Section
Ground-Water Protection Division
Bureau of Drinking Water Protection

Enc: Biological Approval Letter

cc: F&DM Section
Brad Keith, Appalachia III District EQC
Paul A. Calvo, LandRec, Inc
Alan (Chris) Leggett, SPATCO Environmental

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LandRec, Inc.

Real Estate Reclamation

P.O. Box 50528
Columbia, S.C. 29250-0528
(803) 254-1545
FAX (803) 779-8538

February 10, 1994

RECEIVED
FEB 14 1994
Groundwater Protection Division

Mr. Art Schrader
GWPD, SCDHEC
2600 Bull Street
Columbia, South Carolina 29201

Subject: Permission to Move Soils to Dirt Gin Treatment Facility
From Souther's Grocery, Little Chicago, SC
Site I.D. # 08650 LR# 940203

Dear Mr. Schrader:

There are a total of 1-2 stockpiled cubic yards and 2 barrels of petroleum hydrocarbon contaminated soils from well cuttings at Souther's Grocery in Little Chicago, South Carolina. The owner wants them removed.

LandRec, Inc. hereby requests permission to load and haul the subject soils to the Dirt Gin Treatment Facility in Orangeburg, SC for biological treatment. Once treated to agreed upon levels, LandRec will recycle the soils.

On behalf of our client, your expedient review and approval of this request is greatly appreciated. Attached are the analytical data.

Cordially,
LANDREC, INC.

Ann S. Counas
Operations Manager

PAC/asc

cc: Solid and Hazardous Waste Section
Paul A. Calvo, LandRec President

File: movein\souther.spa

RECEIVED JUL 08 1993

H Y D R O L O G I C , I N C .

HYDROLOGIC COLUMBIA
Sample Data Report
SC Certification No. 40101

Date : 7/7/93
Project : Souther's Grocery
Client : Spatco Environmental
Date Collected : 6/24/93
Date Received : 6/28/93
Date Analyzed : 7/4/93
Date Reported : 7/6/93

Sample ID	Client ID	Benzene	Toluene	Ethyl Benzene	Xylenes	5030 TPH	3550 TPH
93-4484	SP-6	<6.0	<6.0	<6.0	<18.0	<0.1	<1.0
93-4485	SP-7	<6.0	<6.0	<6.0	<18.0	<0.1	<1.0
93-4486	SP-8	<6.0	<6.0	<6.0	<18.0	<0.1	<1.0
93-4487	SP-9	<6.0	<6.0	<6.0	<18.0	<0.1	<1.0
93-4488	SP-10	<6.0	<6.0	<6.0	<18.0	<0.1	<1.0

BTEX Units = ug/kg (parts per billion) soil by M8020
TPH Units = mg/kg (parts per million) soil by M5030/3550

Data Approved for Release:

Joy G. Clark

Joy G. Clark
Lab Manager

100 ASHLAND PARK LANE / COLUMBIA, S.C. 29210 / (803)750-0913 / FAX:(803)750-9505 / TOLL FREE: 1-800-243-0913

HYDROLOGIC COLUMBIA
Sample Data Report
SC Certification No. 40101

Date : 7/7/93
Project : Souther's Grocery
Client : Spatco Environmental
Date Collected : 6/24/93
Date Received : 6/28/93
Date Analyzed : 7/4/93
Date Reported : 7/6/93

Sample ID	Client ID	Benzene	Toluene	Ethyl Benzene	Xylenes	5030 TPH	3550 TPH
93-4489	SP-1	<6.0	<6.0	<6.0	<18.0	<0.1	<1.0
93-4490	SP-2	<6.0	<6.0	<6.0	<18.0	<0.1	<1.0
93-4491	SP-3	<6.0	<6.0	<6.0	<18.0	<0.1	<1.0
93-4492	SP-4	<6.0	<6.0	<6.0	<18.0	<0.1	<1.0
93-4493	SP-5	<6.0	<6.0	<6.0	<18.0	<0.1	<1.0

BTEX Units = ug/kg (parts per billion) soil by M8020
TPH Units = mg/kg (parts per million) soil by M5030/3550

Data Approved for Release:

Joy G. Clark
Joy G. Clark
Lab Manager

ASI

ANALYTICAL SERVICES, INC.

ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
390 TRABERT AVENUE ● ATLANTA, GEORGIA 30309 ● (404) 892-8144
FAX (404)892-2740 ● Federal I.D. #58-1625655

LABORATORY REPORT

SPATCO Environmental
400 Arbor Lake Drive
Suite A-600
Columbia, SC 29223

December 16, 1993

Attention: Mr. Chris Leggett

Report No. 47600-6

Sample: Soil, Souther's Grocery, Little Chicago SC, Project #9-4175, RW-1(9'), 11/23/93, received 12/6/93

RESULTS

	Result	Detection Limit
Benzene (ug/kg)(EPA 8260).....	90000	50000
Ethylbenzene (ug/kg)(EPA 8260).....	230000	50000
Toluene (ug/kg)(EPA 8260).....	690000	50000
Xylenes (ug/kg)(EPA 8260).....	1200000	100000
Total BTEX (ug/kg)(EPA 8260).....	2210000	100000
Gasoline Range Organics (mg/kg)(EPA 8020)....	9600	5000

South Carolina Laboratory I.D. No. 98011

Respectfully submitted,

By: Billy R Dyer

ASI

ANALYTICAL SERVICES, INC.

ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
390 TRABERT AVENUE ● ATLANTA, GEORGIA 30309 ● (404) 892-8144
FAX (404)892-2740 ● Federal I.D. #58-1625655

LABORATORY REPORT

SPATCO Environmental
400 Arbor Lake Drive
Suite A-600
Columbia, SC 29223

December 16, 1993

Attention: Mr. Chris Leggett

Report No. 47600-5

Sample: Soil, Souther's Grocery, Little Chicago SC, Project #9-4175, MW-9(10'), 11/29/93, received 12/6/93

RESULTS

	Result	Detection Limit
Benzene (ug/kg)(EPA 8260).....	160	5
Ethylbenzene (ug/kg)(EPA 8260).....	11	5
Toluene (ug/kg)(EPA 8260).....	110	5
Xylenes (ug/kg)(EPA 8260).....	78	10
Total BTEX (ug/kg)(EPA 8260).....	359	10
Gasoline Range Organics (mg/kg)(EPA 8020)....	BDL	5

BDL - Below Detection Limit
South Carolina Laboratory I.D. No. 98011

Respectfully submitted,

By:

ASI

ANALYTICAL SERVICES, INC.

ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
390 TRABERT AVENUE ● ATLANTA, GEORGIA 30309 ● (404) 892-8144
FAX (404)892-2740 ● Federal I.D. #58-1625655

LABORATORY REPORT

SPATCO Environmental
400 Arbor Lake Drive
Suite A-600
Columbia, SC 29223

December 16, 1993

Attention: Mr. Chris Leggett

Report No. 47600-4

Sample: Soil, Souther's Grocery, Little Chicago SC, Project #9-4175, MW-8(10'), 11/29/93, received 12/6/93

RESULTS

	Result	Detection Limit
Benzene (ug/kg)(EPA 8260).....	66	5
Ethylbenzene (ug/kg)(EPA 8260).....	6	5
Toluene (ug/kg)(EPA 8260).....	78	5
Xylenes (ug/kg)(EPA 8260).....	54	10
Total BTEX (ug/kg)(EPA 8260).....	204	10
Gasoline Range Organics (mg/kg)(EPA 8020)....	BDL	5

BDL - Below Detection Limit
South Carolina Laboratory I.D. No. 98011

Respectfully submitted,

By: Betty L Dyer

ASI

ANALYTICAL SERVICES, INC.

ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
390 TRABERT AVENUE ● ATLANTA, GEORGIA 30309 ● (404) 892-8144
FAX (404)892-2740 ● Federal I.D. #58-1625655

LABORATORY REPORT

SPATCO Environmental
400 Arbor Lake Drive
Suite A-600
Columbia, SC 29223

December 16, 1993

Attention: Mr. Chris Leggett

Report No. 47600-3

Sample: Soil, Souther's Grocery, Little Chicago SC, Project #9-4175, MW-7(10'), 11/29/93, received 12/6/93

RESULTS

	Result	Detection Limit
Benzene (ug/kg)(EPA 8260).....	14000	10000
Ethylbenzene (ug/kg)(EPA 8260).....	30000	10000
Toluene (ug/kg)(EPA 8260).....	96000	10000
Xylenes (ug/kg)(EPA 8260).....	170000	20000
Total BTEX (ug/kg)(EPA 8260).....	310000	20000
Gasoline Range Organics (mg/kg)(EPA 8020)....	1500	1000

South Carolina Laboratory I.D. No. 98011

Respectfully submitted,

By: Billy R. Dyer

ASI

ANALYTICAL SERVICES, INC.

ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
390 TRABERT AVENUE ● ATLANTA, GEORGIA 30309 ● (404) 892-8144
FAX (404)892-2740 ● Federal I.D. #58-1625655

LABORATORY REPORT

SPATCO Environmental
400 Arbor Lake Drive
Suite A-600
Columbia, SC 29223

December 16, 1993

Attention: Mr. Chris Leggett

Report No. 47600-2

Sample: Soil, Souther's Grocery, Little Chicago SC, Project #9-4175, MW-6(10'), 11/24/93, received 12/6/93

RESULTS

	Result	Detection Limit
Benzene (ug/kg)(EPA 8260).....	240	25
Ethylbenzene (ug/kg)(EPA 8260).....	120	25
Toluene (ug/kg)(EPA 8260).....	380	25
Xylenes (ug/kg)(EPA 8260).....	300	50
Total BTEX (ug/kg)(EPA 8260).....	1040	50
Gasoline Range Organics (mg/kg)(EPA 8020)....	BDL	5

BDL - Below Detection Limit
South Carolina Laboratory I.D. No. 98011

Respectfully submitted,

By: Billy P. Dyer

ASI

ANALYTICAL SERVICES, INC.

ENVIRONMENTAL MONITORING & LABORATORY ANALYSIS
390 TRABERT AVENUE ● ATLANTA, GEORGIA 30309 ● (404) 892-8144
FAX (404)892-2740 ● Federal I.D. #58-1625655

RECEIVED DEC 20 1993

LABORATORY REPORT

SPATCO Environmental
400 Arbor Lake Drive
Suite A-600
Columbia, SC 29223

December 16, 1993

Attention: Mr. Chris Leggett

Report No. 47600-1

Sample: Soil, Souther's Grocery, Little Chicago SC, Project #9-4175, MW-5(10'), 11/24/93, received 12/6/93

RESULTS

	Result	Detection Limit
Benzene (ug/kg)(EPA 8260).....	38000	10000
Ethylbenzene (ug/kg)(EPA 8260).....	78000	10000
Toluene (ug/kg)(EPA 8260).....	250000	10000
Xylenes (ug/kg)(EPA 8260).....	430000	20000
Total BTEX (ug/kg)(EPA 8260).....	796000	20000
Gasoline Range Organics (mg/kg)(EPA 8020)....	4200	1000

South Carolina Laboratory I.D. No. 98011

Respectfully submitted,

By: Betty P. Dyer

South Carolina
DHEC
Department of Health and Environmental Control
2600 Bull Street, Columbia, SC 29201

Commissioner: Douglas E. Bryant

Board: Richard E. Jabbour, DDS, Chairman
Robert J. Stripling, Jr., Vice Chairman
Sandra J. Molander, Secretary

William E. Applegate, III,
John H. Burriss
Tony Graham, Jr., MD
John B. Pate, MD

Promoting Health, Protecting the Environment

Date: January 20, 1994

George Souther
195 Goodjoin Road
Campobello, SC 29322

Re: Souther's Grocery
GWPD Site #08650
Cost Proposal #0751
Underground Storage Tank Release
Priority Ranking

Dear Mr. Souther:

As most of you are aware, cleanup costs submitted to date have exceeded the SUPERB Account's ability to pay. In-house bills awaiting payment or under review exceed $8 million dollars.

The short term goals will be to eliminate old debt, to insure future revenues exceed expenditures, and to maintain the financial capability to address emergency situations. Actions taken to date towards this end include suspending access to direct billing on most sites. The SUPERB account has borrowed $5 million from other Departmental programs, and the program is currently processing some of the existing debt. Repayment to those programs must begin in January 1994 at $500,000 per month by the environmental impact fee. While this will quickly pay some of the existing debt, the available income to address the remaining debts or environmental problems will be significantly reduced for months to come. Therefore, the number of sites that may access direct billing must be further reduced.

The UST cleanup program will reserve most of the remaining monthly income to pay existing claims. We will attempt to maintain some cleanup activity utilizing direct billing at a few of the priority sites focusing on free product recovery and to address emergency situations.

Please note that site rehabilitation activities have been previously approved at this site via the direct billing method (per the referenced cost proposal number). Due to the relative ranking of this site, continued obligation of financial resources under direct billing is not possible at this time and approval for direct billing is hereby suspended. Per telephone conversation with your environmental consultant on January 20, 1994, it was agreed that work will terminate except preparation of an Expanded Assessment Report. This report of findings to date and the associated invoices must be submitted to the Department within 30 days of receipt of this letter. SCDHEC will inform you when the status of your site warrants direct billing to be resumed.

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However, you may proceed at your own expense with implementing the approved technical plan of action and seek reimbursement from the SUPERB Account. Please note that reimbursement typically takes a much longer period of time to process and that SUPERB funds are dispersed for reimbursement only as long as funds are available. Reimbursement requests are processed by SCDHEC in chronological order of receipt.

If you have any further questions, please contact Arthur Shrader at (803) 734-0890.

Sincerely,

Christopher S. Doll, P.G., Manager
UST Federal Corrective Action Section
Ground-Water Protection Division
Bureau of Drinking Water Protection

aas\08650cp.stp

cc: Dee Obrien, SPATCO Environmental
Brad Keith, Appalachia III District EQC
F&MD Section, GWPD
Arthur Shrader, GWPD

South Carolina
DHEC
Department of Health and Environmental Control
2600 Bull Street, Columbia, SC 29201

Commissioner: Douglas E. Bryant

Board: Richard E. Jabbour, DDS, Chairman
Robert J. Stripling, Jr., Vice Chairman
Sandra J. Molander, Secretary

Promoting Health, Protecting the Environment

William E. Applegate, III
John H. Burriss
Tony Graham, Jr., MD
John B. Pate, MD

Date: December 6, 1993

George Souther
195 Goodjoin Road
Campobello, SC 29322

Re: GWPD Site # 08650 Souther's Grocery
Underground Storage Tank Release
Priority Ranking

Dear Mr. Souther:

All releases from regulated underground storage tanks that have been reported to this Department have been prioritized using a ranking system that evaluates environmental and health related factors. The ranking system identifies those sites that represent the most serious threats where the Department should be allocating available SUPERB monies.

Currently, the referenced site ranks higher than many other sites (i.e., represents a significant environmental or health threat). Please note that site rehabilitation activities already initiated under the direct billing method should be completed in an expeditious manner.

If you have any further questions, please contact Mr. David Baize or Mr. Chris Doll at 734-5331.

Sincerely,

Stanley L. Clark, P.G., Director
Ground-Water Protection Division
Bureau of Drinking Water Protection

SLC/aas

cc: SPATCO Environmental
Brad Keith, Appalachia III District EQC

recycled paper

Fax Message

Date: 11/9/93

Number of Pages Including Cover Sheet: 2

Please Deliver This Fax Message

TO: Bramley Stafford
Name

SPATCO Environmental
Organization/Department

(____) 735-8663 Fax Number (____) 735-8595 Office Phone

FROM: Art Shrader
Name

GWPD
Bureau/Division/Section

(____) 734-3604 Fax Number (____) 734-0890 Office Phone

SUBJECT/COMMENTS: Reference access on GWPD # 08650.

Reply from Becky Arms attached.

Will send hard copy.

Art Shrader

South Carolina
Department of Health
and
Environmental Control

2600 Bull Street
Columbia, SC 29201

DHEC 24-052 (1/91)

RECEIVED NOV 0 8 1993

SPATCO

AUTHORIZATION TO ACCESS PROPERTY
Intersection of Mt. Lebanon & Goodjoin Roads
Campobello, South Carolina
August 26, 1993

SPATCO Environmental is (GRANTED) NOT GRANTED (circle one) authorization to access the above subject property.

Name (Please Print): JAMES B. WILLIAMS JR.

Signature: James B Williams Jr Date: 11-5-93

Phone Number: _____
(Only if you wish to be notified prior to initiation of field activities)

J.B. Williams Sr. Deceased 10-10-93.

RECEIVED
NOV 1 0 1993
Groundwater Protection
Division

SPATCO

AUTHORIZATION TO ACCESS PROPERTY
Intersection of Mt. Lebanon & Goodjoin Roads
Campobello, South Carolina
August 26, 1993

SPATCO Environmental is GRANTED NOT GRANTED (circle one) authorization to access the above subject property.

reference GWPD ID: #08650

Name (Please Print): Becky Arms

Signature: Becky Arms Date: 11-05-93

Phone Number: _____
(Only if you wish to be notified prior to initiation of field activities)

RECEIVED
NOV 0 8 1993
Groundwater Protection
Division

South Carolina
DHEC
Department of Health and Environmental Control
2600 Bull Street, Columbia, SC 29201

Commissioner: Douglas E. Bryant

Board: Richard E. Jabbour, DDS, Chairman
Robert J. Stripling, Jr., Vice Chairman
Sandra J. Molander, Secretary

Promoting Health, Protecting the Environment

William E. Applegate, III,
John H. Burriss
Tony Graham, Jr., MD
John B. Pate, MD

Certified Mail

November 1, 1993

Becky Arms
143 Northway Drive
Landrum, SC 29356

Re: Souther's Grocery
GWPD ID: #08650
195 Goodjoin Road, Campabello, SC
Spartanburg County

Dear Ms. Arms:

The S.C. Department of Health and Environmental Control (SCDHEC) has determined that Mr. George Souther is responsible for defining the extent and severity of ground-water contamination that originated from the underground storage tanks, associated piping, and/or spills at Souther's Grocery located at the above referenced address. To achieve this goal, SPATCO Environmental proposed that one ground-water monitoring well be located on your property adjacent to Souther's Grocery (in addition to several wells at other nearby locations). The plan was reviewed and approved by this office. The consultant has since indicated to SCDHEC their inability to obtain permission from you for the proposed well installation.

The proposed ground-water monitoring wells will be finished at grade level, leaving only small man-hole covers visible. Upon completion of their use, the wells will be removed, and the area returned to its original state. The length of time each well needs to remain in place will depend on the encountered ground-water quality. If no contamination is detected, the wells can be removed. If petroleum constituents are detected, the residence time of the wells will depend on the length of time required to remediate the contamination. This in turn is dependent on the hydrogeology of the site and the expeditious manner in which remedial action is taken. During the current time of inactivity, contaminants are migrating unabated, and as a result, the areal extent of the contaminant plume is expanding. Consequently, the length of time recovery operations will run (if required) will be longer unless more recovery wells are installed and/or recovery is initiated quickly.

recycled paper

Pursuant to the Underground Storage Tank Control Regulations (R.61-92), George Souther is the responsible party for addressing the existing contamination. In addition, SCDHEC has authority under the South Carolina Pollution Control Act (44-1-90.B and 44-1-50.4) to require property owners to abate contamination problems on their property. The State Supreme Court, in a case similar to this, has held property owners liable as well. SCDHEC believes it would be in your best interest to allow Mr. Souther and his contractor, SPATCO Environmental, to address the contamination problem, as they, until now, have done.

It is my understanding that you are aware of the planned monitor well locations per a letter of August 27, 1993 from SPATCO Environmental. SCDHEC requests that you formally respond on or before November 30, 1993 to SPATCO Environmental's letter in order for this investigation to be completed in an expeditious manner.

On all correspondence concerning this site, please reference GWPD ID: #08650. If there are any questions concerning this project, please call me at (803)-734-0890.

Sincerely,

Arthur Shrader

Arthur Shrader, Hydrogeologist
UST Federal Corrective Action Section
Ground-Water Protection Division
Bureau of Drinkimg Water Protection

08650sit1.ltr

Encl: SPATCO Environmental letter, dated August 27, 1993

CC: Brad Keith, Appalachia III District EQC
George E. Souther
Bramley Stafford, SPATCO Environmental,Inc.

South Carolina
DHEC
Department of Health and Environmental Control
2600 Bull Street, Columbia, SC 29201

Commissioner: Douglas E. Bryant

Board: Richard E. Jabbour, DDS, Chairman
Robert J. Stripling, Jr., Vice Chairman
Sandra J. Molander, Secretary

William E. Applegate, III,
John H. Burriss
Tony Graham, Jr., MD
John B. Pate, MD

Promoting Health, Protecting the Environment

Certified Mail

November 1, 1993

Annie L. Frady Wolfe
Route #2, Box 268
Campobello, SC 29322

Re: Souther's Grocery
GWPD ID: #08650
195 Goodjoin Road, Campabello, SC
Spartanburg County

Dear Ms. Wolfe:

The S.C. Department of Health and Environmental Control (SCDHEC) has determined that Mr. George Souther is responsible for defining the extent and severity of ground-water contamination that originated from the underground storage tanks, associated piping, and/or spills at Souther's Grocery located at the above referenced address. To achieve this goal, SPATCO Environmental proposed that one ground-water monitoring well be located on your property adjacent to Souther's Grocery (in addition to several wells at other nearby locations). The plan was reviewed and approved by this office. The consultant has since indicated to SCDHEC their inability to obtain permission from you for the proposed well installation.

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recycled paper

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Sincerely,

Arthur Shrader, Hydrogeologist
UST Federal Corrective Action Section
Ground-Water Protection Division
Bureau of Drinkimg Water Protection

08650sit1.ltr

Encl: SPATCO Environmental letter, dated August 27, 1993

CC: Brad Keith, Appalachia III District EQC
George E. Souther
Bramley Stafford, SPATCO Environmental,Inc.

South Carolina
DHEC
Department of Health and Environmental Control
2600 Bull Street, Columbia, SC 29201

Commissioner: Douglas E. Bryant

Board: Richard E. Jabbour, DDS, Chairman
Robert J. Stripling, Jr., Vice Chairman
Sandra J. Molander, Secretary

William E. Applegate, III,
John H. Burriss
Tony Graham, Jr., MD
John B. Pate, MD

Promoting Health, Protecting the Environment

Certified Mail

November 1, 1993

J. B. Williams, Sr.
Route #2
Campobello, SC 29322

Re: Souther's Grocery
GWPD ID: #08650
195 Goodjoin Road, Campabello, SC
Spartanburg County

Dear Mr. Williams:

The S.C. Department of Health and Environmental Control (SCDHEC) has determined that Mr. George Souther is responsible for defining the extent and severity of ground-water contamination that originated from the underground storage tanks, associated piping, and/or spills at Souther's Grocery located at the above referenced address. To achieve this goal, SPATCO Environmental proposed that one ground-water monitoring well be located on your property adjacent to Souther's Grocery (in addition to several wells at other nearby locations). The plan was reviewed and approved by this office. The consultant has since indicated to SCDHEC their inability to obtain permission from you for the proposed well installation.

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recycled paper

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On all correspondence concerning this site, please reference GWPD ID: #08650. If there are any questions concerning this project, please call me at (803)-734-0890.

Sincerely,

Arthur Shrader, Hydrogeologist
UST Federal Corrective Action Section
Ground-Water Protection Division
Bureau of Drinkimg Water Protection

08650sit3.ltr

Encl: Letter, SPATCO Environmental, dated August 27, 1993

CC: Brad Keith, Appalachia III District EQC
George E. Souther
Bradley Stafford, SPATCO Environmental,Inc.

SPATCO
Environmental
Services

PATCO
Liquid Process
Technology

SPATCO
Petro Marketing
Systems

SPATCO

October 12, 1993

Mr. Art Shrader, Project Manager
SCDHEC/GWPD
2600 Bull Street
Columbia, SC 29201

Re: Souther's Grocery - GWPD #08650 (SPATCO w/o #9-4175)
Offsite Access

Dear Mr. Shrader:

This is to advise you of our failed attempts at obtaining offsite access for the above-mentioned site. We have signed receipts signifying that the property owners received the requests. We have not received any replies for these requests.

I am enclosing copies of letters and Certified Mail cards, along with parcel and site map on the following property owners:

Annie L. Frady Wolfe (parcels 3 & 6)
Rt. #2, Box 268
Campobello, SC 29322

Becky Arms (parcel 4)
143 Northway Drive
Landrum, SC 29356

J. B. Williams, Sr. (parcel 9)
Rt. #2
Campobello, SC 29322

Have not replied

Je
895-3175

Your assistance in this matter will be greatly appreciated.

Please call me in Columbia at 735-8595 if you have questions or can update this information.

Sincerely,
SPATCO Environmental

Bramley Stafford
Project Manager

BS:sg

Enclosures

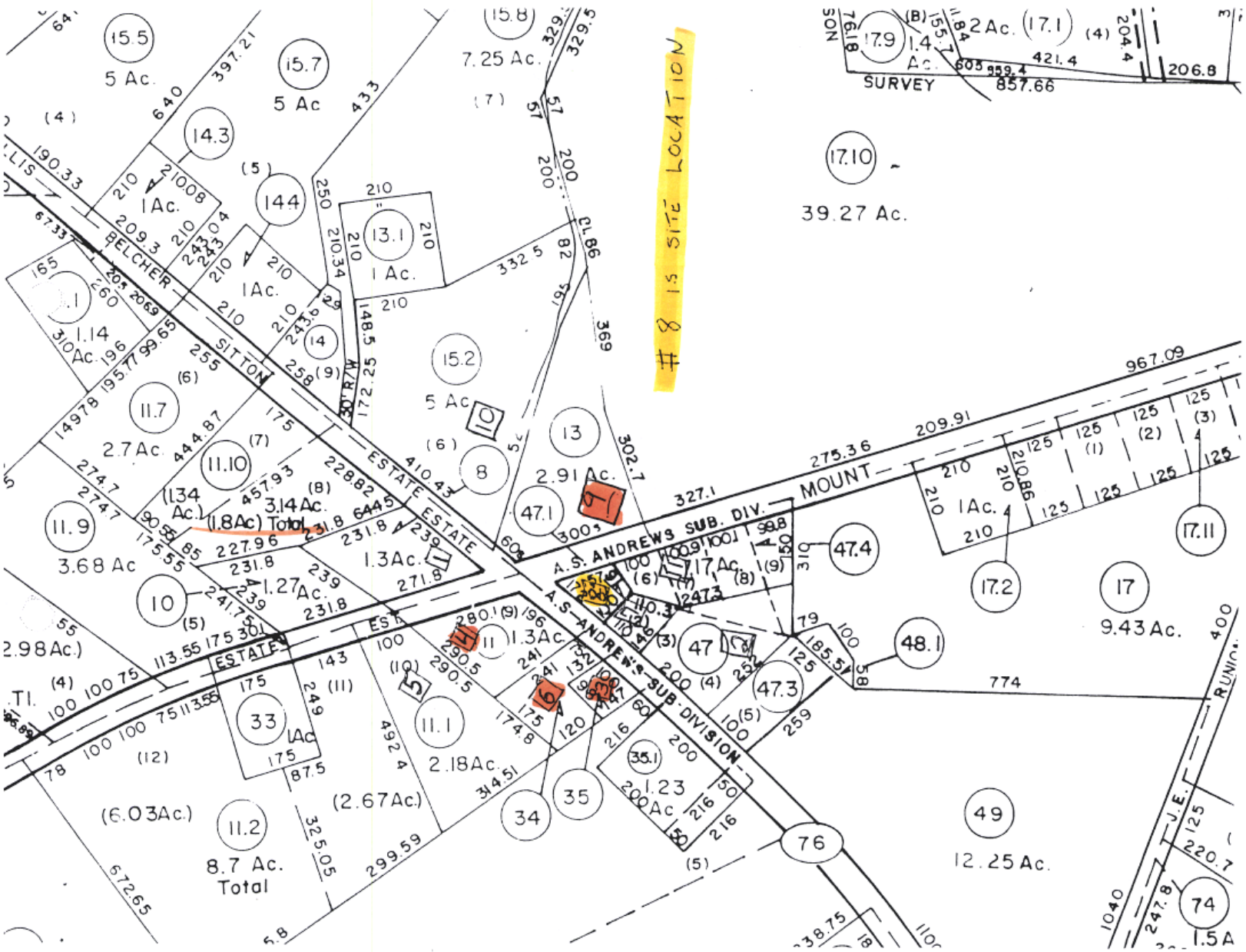
RECEIVED
OCT 14 1993
Groundwater Protection
Division

400 Arbor Lake Drive
Suite A-600
Columbia, SC
29223.4535

803.735.8595
FAX 735.8663

Corporate Office
Charlotte, NC
704.597.5960

Printed on recycled paper


#8 IS SITE LOCATION
BELCHER
SITTON
ESTATE
A.S. ANDREWS SUB. DIV.
MOUNT
SURVEY
15.5
5 Ac.
15.7
5 Ac
14.3
1 Ac.
14.4
13.1
1 Ac.
15.8
7.25 Ac.
15.2
5 Ac
11.7
2.7 Ac.
11.10
3.14 Ac.
(1.8 Ac) Total
11.9
3.68 Ac
10
1.27 Ac.
13
2.91 Ac.
8
47.1
47.4
17.1
17.9
17.10
39.27 Ac.
17.11
17.2
17
9.43 Ac.
48.1
47
47.3
11
1.3 Ac.
11.1
2.18 Ac.
33
1 Ac
35.1
1.23 Ac
34
35
76
49
12.25 Ac.
74
11.2
8.7 Ac.
Total
(6.03 Ac.)
(2.67 Ac.)
(2.98 Ac.)

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Technology

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Petro Marketing
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RECEIVED
OCT 1 4 1993
Groundwater Protection
Division

August 27, 1993

Mr. J. B. Williams, Sr.
Rt. 2
Campobello, SC 29322

Subj: AUTHORIZATION TO ACCESS PROPERTY, INTERSECTION OF MT. LEBANON & GOODJOIN ROADS, CAMPOBELLO, SOUTH CAROLINA

Dear Mr. Williams:

SPATCO Environmental Services, Inc. is currently working at the direction of the South Carolina Department of Health & Environmental Control (SCDHEC) to determine the ground-water quality in the vicinity of the above subject property. Soil and ground-water samples must be obtained from the above subject property in order to complete this survey.

SPATCO Environmental is requesting permission to install a ground-water monitoring well on the property. The approximate location of the proposed well is illustrated in the attached Figure. Monitoring well installation will be accomplished utilizing a truck mounted drill rig and will be completed in less than one day. Once completed, the only visible portion of the monitoring well will be an 8-inch diameter manhole cover set in a small concrete pad. The manhole will be raised 2 to 4 inches above the level of the surrounding lot to allow for rain-water runoff while not impeding the normal operation (i.e. traffic, etc.) of the property. The property will be negligibly impacted by the installation, however, any ground disturbances that may occur will be corrected. SPATCO Environmental is fully insured and will be responsible for any problems that arise as a direct result of the well installation. Following completion of well installation, a SPATCO Environmental representative will visit the site periodically and collect ground-water samples from the well.

Please take a moment to complete the authorization below (either granting or declining access) and return it as soon as possible in the stamped-addressed envelope we have enclosed. If you would like to be contacted prior to the initiation of the investigation, please indicate in the space provided. We appreciate your time and effort in this matter. If you have any questions, or need any additional information, please do not hesitate to call. Our phone number is (803) 735-8595.

Sincerely,
SPATCO ENVIRONMENTAL

Bramley Stafford
Project Manager

Enclosures:

cc: Arthur Shrader
SCDHEC, GWPD

400 Arbor Lake Drive
Suite A-600
Columbia, SC
29223.4535

803.735.8595
FAX 735.8663

Corporate Office
Charlotte, NC
704.597.5960

Printed on recycled paper

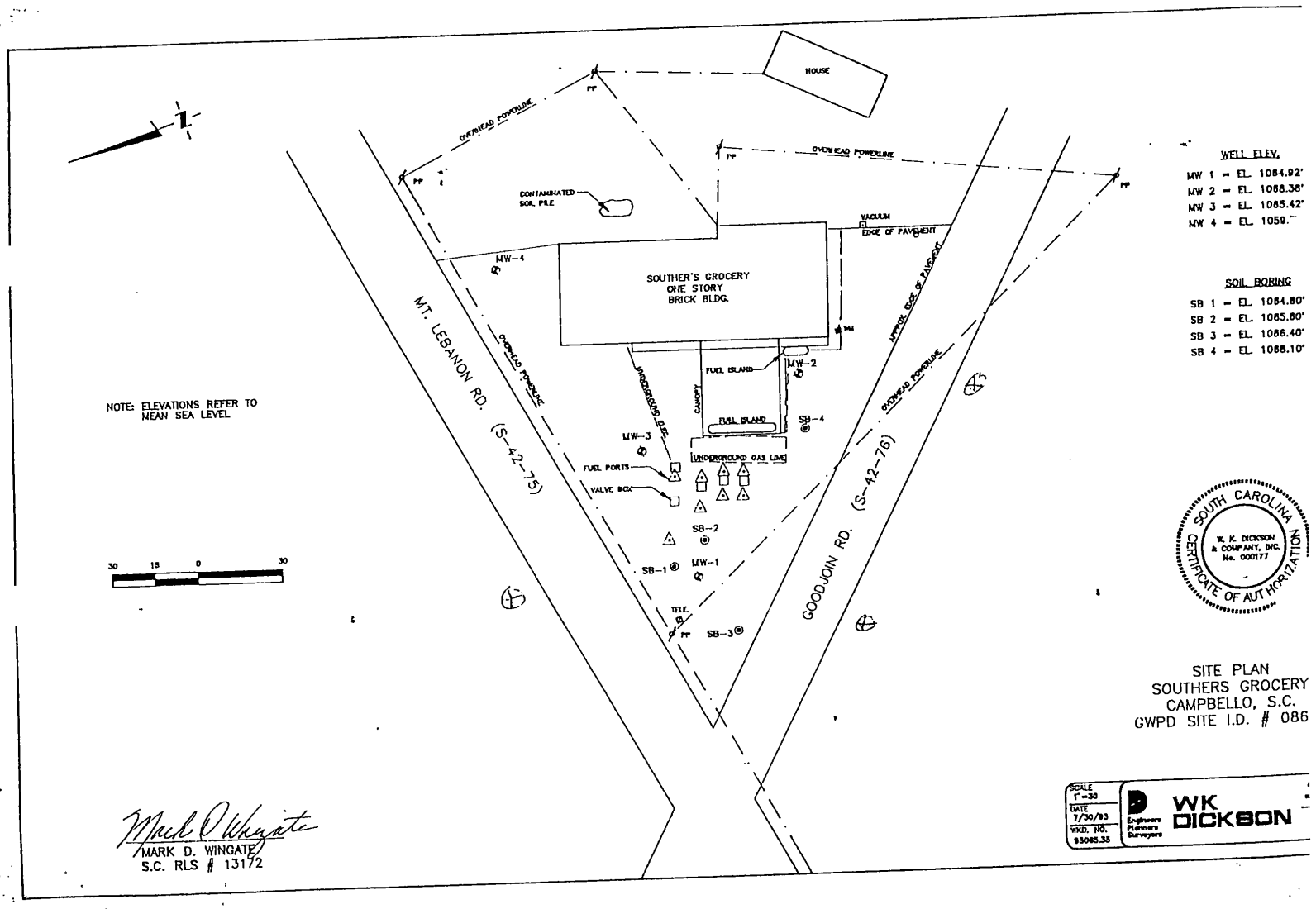
SPATCO

SPATCO Environmental is GRANTED NOT GRANTED (circle one) authorization to access the above subject property.

Name (Please Print): _____

Signature: _____ Date: _____

Phone Number: _____
(Only if you wish to be notified prior to initiation of field activities)


HOUSE
OVERHEAD POWERLINE
CONTAMINATED SOIL PILE
VACUUM
EDGE OF PAVEMENT
MW-4
SOUTHER'S GROCERY
ONE STORY
BRICK BLDG.
MT. LEBANON RD. (S-42-75)
GOODJOIN RD. (S-42-76)
UNDERGROUND ELEC.
CANOPY
FUEL ISLAND
MW-2
SB-4
MW-3
UNDERGROUND GAS LINE
FUEL PORTS
VALVE BOX
SB-2
SB-1
MW-1
TELE.
SB-3
NOTE: ELEVATIONS REFER TO MEAN SEA LEVEL
30 15 0 30
WELL ELEV.
MW 1 = EL. 1084.92'
MW 2 = EL. 1088.38'
MW 3 = EL. 1085.42'
MW 4 = EL. 1059.
SOIL BORING
SB 1 = EL. 1084.80'
SB 2 = EL. 1085.60'
SB 3 = EL. 1086.40'
SB 4 = EL. 1088.10'
SOUTH CAROLINA
W. K. DICKSON & COMPANY, INC.
No. 000177
CERTIFICATE OF AUTHORIZATION
SITE PLAN
SOUTHERS GROCERY
CAMPBELLO, S.C.
GWPD SITE I.D. # 086
SCALE 1"=30
DATE 7/30/93
WKD. NO. 93085.35
WK DICKSON
Engineers Planners Surveyors
MARK D. WINGATE
S.C. RLS # 13172

P 382 637 475

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

Sent to Mr. J.B. Williams, Sr.	
Street and No. Rt 2	
P.O., State and ZIP Code Campobello SC 29322	
Postage	$ .29
Certified Fee	1.00
Special Delivery Fee	1.00
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$2.29
Postmark or Date	

PS Form 3800, June 1985 *U.S.G.P.O. 1989-234-555

Is your **RETURN ADDRESS** completed on the reverse side?

SENDER:
- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):
1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to: Mr. J.B Williams, Sr. Rt 2. Campobello, SC 29322

4a. Article Number P 382 637 475

4b. Service Type
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

5. Signature (Addressee)

6. Signature (Agent)

7. Date of Delivery 1991 9 3

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1991 *U.S. GPO: 1992—323-402 **DOMESTIC RETURN RECEIPT**

Thank you for using Return Receipt Service.

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SPATCO
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Technology

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Petro Marketing
Systems

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RECEIVED
OCT 1 4 1993
Groundwater Protection
Division

August 27, 1993

Mrs. Becky Arms
143 Northway Drive
Landrum, SC 29356

Subj: AUTHORIZATION TO ACCESS PROPERTY, INTERSECTION OF MT. LEBANON & GOODJOIN ROADS, CAMPOBELLO, SOUTH CAROLINA

Dear Mrs. Arms:

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SPATCO Environmental is requesting permission to install a ground-water monitoring well on the property. The approximate location of the proposed well is illustrated in the attached Figure. Monitoring well installation will be accomplished utilizing a truck mounted drill rig and will be completed in less than one day. Once completed, the only visible portion of the monitoring well will be an 8-inch diameter manhole cover set in a small concrete pad. The manhole will be raised 2 to 4 inches above the level of the surrounding lot to allow for rain-water runoff while not impeding the normal operation (i.e. traffic, etc.) of the property. The property will be negligibly impacted by the installation, however, any ground disturbances that may occur will be corrected. SPATCO Environmental is fully insured and will be responsible for any problems that arise as a direct result of the well installation. Following completion of well installation, a SPATCO Environmental representative will visit the site periodically and collect ground-water samples from the well.

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SPATCO ENVIRONMENTAL

Bramley Stafford
Project Manager

Enclosures:

cc: Arthur Shrader
SCDHEC, GWPD

400 Arbor Lake Drive
Suite A-600
Columbia, SC
29223.4535

803.735.8595
FAX 735.8663

Corporate Office
Charlotte, NC
704.597.5960

Printed on recycled paper

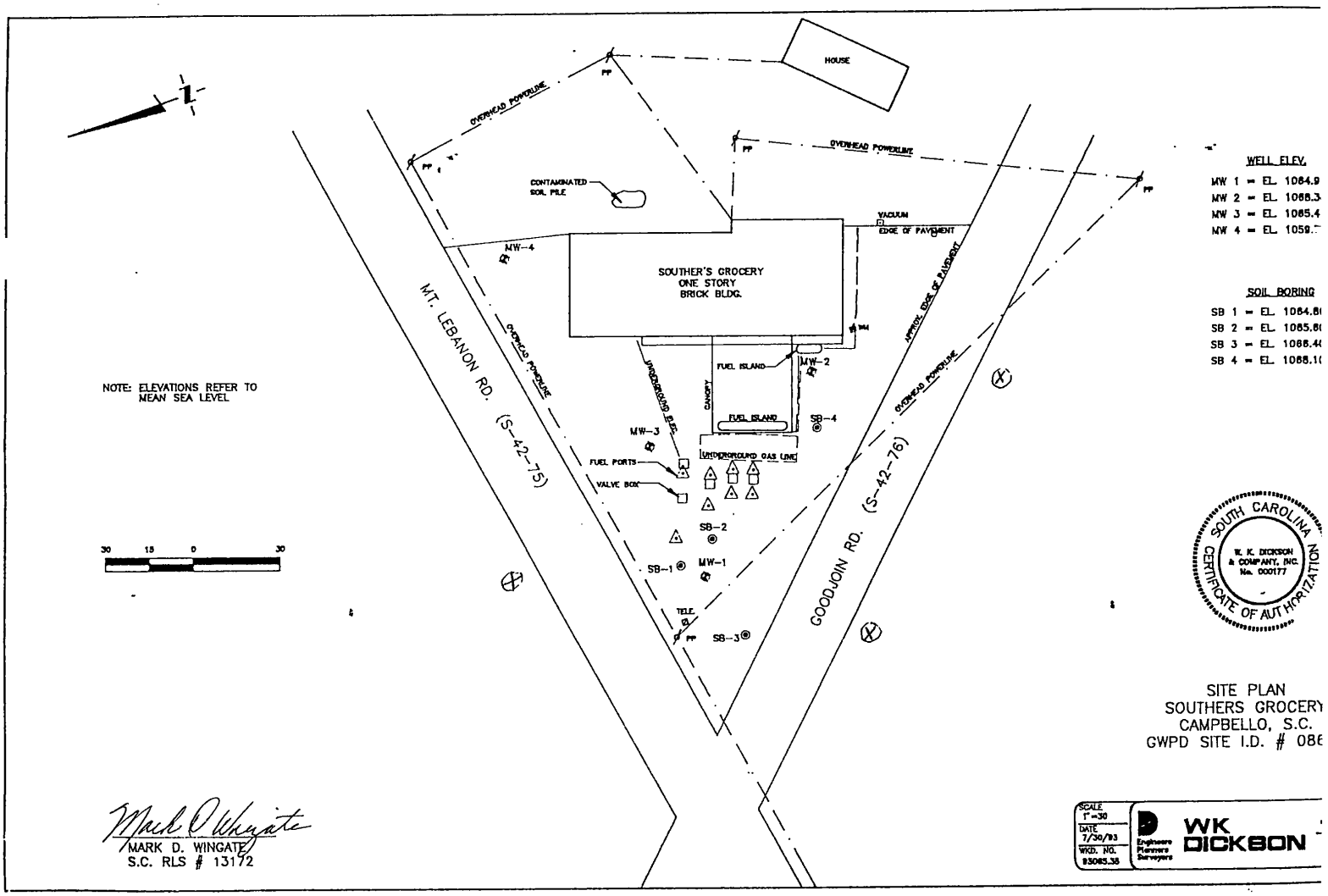
SPATCO

SPATCO Environmental is GRANTED NOT GRANTED (circle one) authorization to access the above subject property.

Name (Please Print): _____

Signature: _____ Date: _____

Phone Number: _____
(Only if you wish to be notified prior to initiation of field activities)


HOUSE
OVERHEAD POWERLINE
OVERHEAD POWERLINE
CONTAMINATED SOIL PILE
VACUUM
EDGE OF PAVEMENT
MW-4
SOUTHER'S GROCERY
ONE STORY
BRICK BLDG.
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OVERHEAD POWERLINE
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FUEL ISLAND
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FUEL ISLAND
SB-4
MW-3
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FUEL PORTS
VALVE BOX
SB-2
SB-1
MW-1
TELE.
SB-3
GOODJOIN RD. (S-42-76)
OVERHEAD POWERLINE
NOTE: ELEVATIONS REFER TO MEAN SEA LEVEL
30 15 0 30
WELL ELEV.
MW 1 = EL. 1064.9
MW 2 = EL. 1068.3
MW 3 = EL. 1065.4
MW 4 = EL. 1059.
SOIL BORING
SB 1 = EL. 1064.6
SB 2 = EL. 1065.6
SB 3 = EL. 1068.4
SB 4 = EL. 1068.1
SOUTH CAROLINA
W. K. DICKSON & COMPANY, INC.
No. 000177
CERTIFICATE OF AUTHORIZATION
SITE PLAN
SOUTHERS GROCERY
CAMPBELLO, S.C.
GWPD SITE I.D. # 086
MARK D. WINGATE
S.C. RLS # 13172
SCALE 1"=30
DATE 7/30/93
WKD. NO. 93085.38
Engineers Planners Surveyors
WK DICKSON

Is your RETURN ADDRESS completed on the reverse side?

SENDER:
- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Mrs Becky Arms
143 Northway Drive
Landrum, SC 29356

4a. Article Number
P 382 637 476

4b. Service Type
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery
9-1-93

5. Signature (Addressee)
Rebecca Arms

6. Signature (Agent)

8. Addressee's Address (Only if requested and fee is paid)

PS Form **3811**, December 1991 ★U.S. GPO: 1992—323-402 **DOMESTIC RETURN RECEIPT**

Thank you for using Return Receipt Service.

P 382 637 476

RECEIPT FOR CERTIFIED MAIL
NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

Sent to	Mrs Becky Arms
Street and No.	143 Northway Drive
P.O., State and ZIP Code	Landrum SC 29356
Postage	$ .29
Certified Fee	1.00
Special Delivery Fee	1.00
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$ 2.29
Postmark or Date	

PS Form 3800, June 1985 U.S.G.P.O. 1989-234-555

SPATCO
Environmental
Services

SPATCO
Liquid Process
Technology

SPATCO
Petro Marketing
Systems

SPATCO

August 27, 1993

Mrs. Annie L. Frady Wolfe
Rt. 2 Box 268
Campobello, SC 29322

Subj: AUTHORIZATION TO ACCESS PROPERTY, INTERSECTION OF MT. LEBANON & GOODJOIN ROADS, CAMPOBELLO, SOUTH CAROLINA

Dear Mrs. Wolfe:

SPATCO Environmental Services, Inc. is currently working at the direction of the South Carolina Department of Health & Environmental Control (SCDHEC) to determine the ground-water quality in the vicinity of the above subject property. Soil and ground-water samples must be obtained from the above subject property in order to complete this survey.

SPATCO Environmental is requesting permission to install a ground-water monitoring well on the property. The approximate location of the proposed well is illustrated in the attached Figure. Monitoring well installation will be accomplished utilizing a truck mounted drill rig and will be completed in less than one day. Once completed, the only visible portion of the monitoring well will be an 8-inch diameter manhole cover set in a small concrete pad. The manhole will be raised 2 to 4 inches above the level of the surrounding lot to allow for rain-water runoff while not impeding the normal operation (i.e. traffic, etc.) of the property. The property will be negligibly impacted by the installation, however, any ground disturbances that may occur will be corrected. SPATCO Environmental is fully insured and will be responsible for any problems that arise as a direct result of the well installation. Following completion of well installation, a SPATCO Environmental representative will visit the site periodically and collect ground-water samples from the well.

Please take a moment to complete the authorization below (either granting or declining access) and return it as soon as possible in the stamped-addressed envelope we have enclosed. If you would like to be contacted prior to the initiation of the investigation, please indicate in the space provided. We appreciate your time and effort in this matter. If you have any questions, or need any additional information, please do not hesitate to call. Our phone number is (803) 735-8595.

Sincerely,
SPATCO ENVIRONMENTAL

Bramley Stafford
Project Manager

Enclosures:

cc: Arthur Shrader
SCDHEC, GWPD

400 Arbor Lake Drive
Suite A-800
Columbia, SC
29223.4535

803.735.8595
FAX 735.8663

Corporate Environmental
Charlotte, NC
704.597.5960

Printed on recycled paper

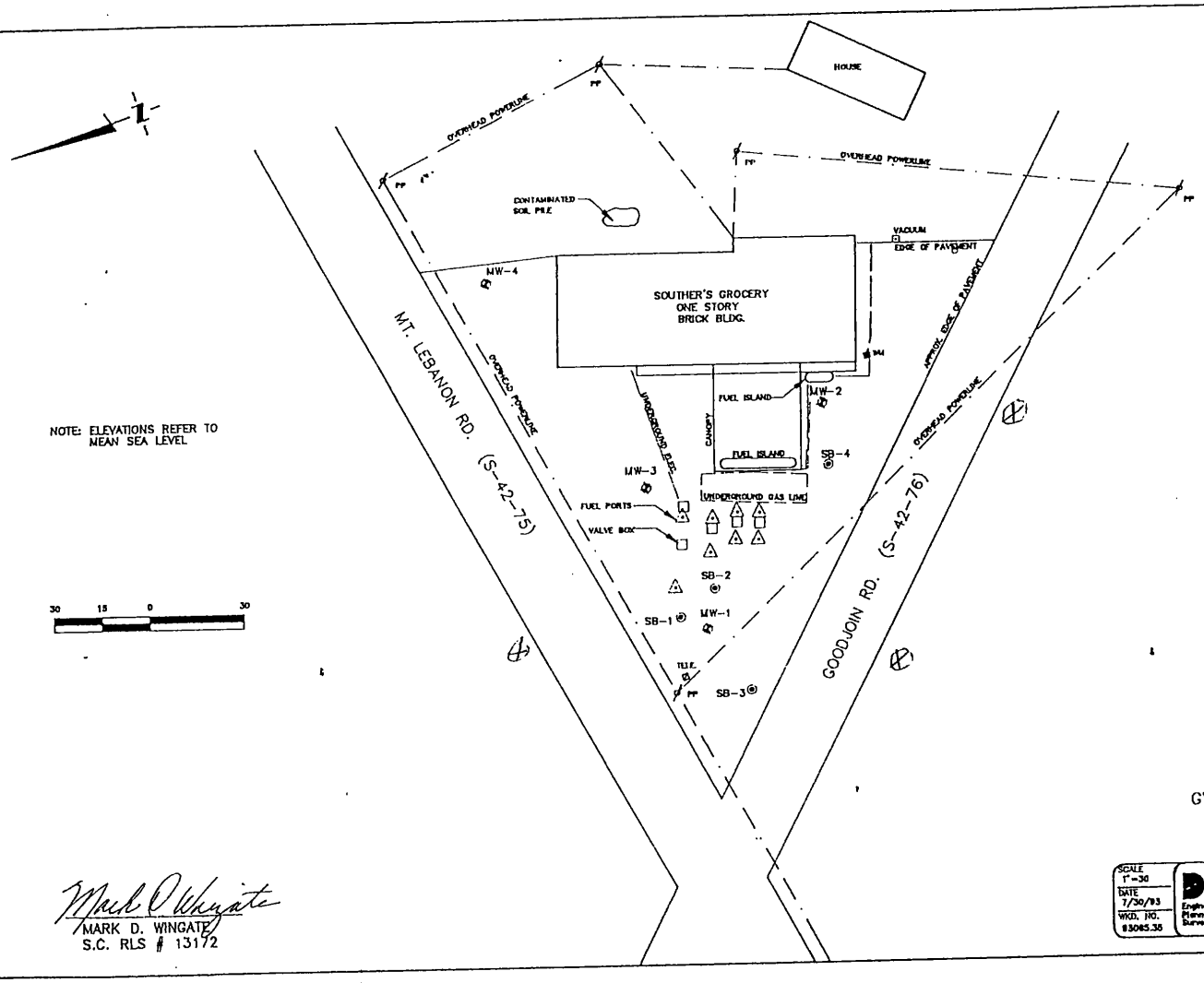
SPATCO

SPATCO Environmental is GRANTED NOT GRANTED (circle one) authorization to access the above subject property.

Name (Please Print): _____

Signature: _____ Date: _____

Phone Number: _____
(Only if you wish to be notified prior to initiation of field activities)



WELL ELEV.

MW 1 = EL. 1064.9
MW 2 = EL. 1068.3
MW 3 = EL. 1065.4
MW 4 = EL. 1059.

SOIL BORING

SB 1 = EL. 1064.8
SB 2 = EL. 1065.6
SB 3 = EL. 1066.4
SB 4 = EL. 1068.1

SOUTH CAROLINA
W. K. DICKSON & COMPANY, INC.
No. 000177
CERTIFICATE OF AUTHORIZATION

SITE PLAN
SOUTHERS GROCERY
CAMPBELLO, S.C.
GWPD SITE I.D. # 086

SCALE 1"=30
DATE 7/30/93
WKD. NO. 93065.38

Engineers Planners Surveyors
WK DICKSON

MARK D. WINGATE
S.C. RLS # 13172

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

RECEIVED AUG 30 1993

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address
2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Mrs Annie L Frady Wolfe
Rt 2 Box 208
Campobello, NC 29322

4a. Article Number

P 382 637 474

4b. Service Type

☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

7. Date of Delivery

8/27/93

5. Signature (Addressee)

X Ria Wolfe

6. Signature (Agent)

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1991 ★U.S. GPO: 1992—323-402 **DOMESTIC RETURN RECEIPT**

Thank you for using Return Receipt Service.

P 382 637 474

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

Sent to	Mrs Annie Wolfe
Street and No.	Rt 2 Box 208
P.O., State and ZIP Code	Campobello, NC 29322
Postage	$ .29
Certified Fee	1.00
Special Delivery Fee	1.00
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	$2.29
Postmark or Date	

Form 3800, June 1985 U.S.G.P.O. 1989-234-555

South Carolina
DHEC
Department of Health and Environmental Control
2600 Bull Street, Columbia, SC 29201

Commissioner: Douglas E. Bryant

Board: Richard E. Jabbour, DDS, Chairman
Robert J. Stripling, Jr., Vice Chairman
Sandra J. Molander, Secretary

Promoting Health, Protecting the Environment

William E. Applegate, III,
John H. Burriss
Tony Graham, Jr., MD
John B. Pate, MD

October 10, 1993

Ms. Dee DeBerry
Spatco Environmental Services
Fontaine Business Center, Suite A-800
400 Arbor Lake Drive
Columbia, SC 29223-4535

Re: Souther's Grocery
GWPD Site ID# 08650 CP #0877
Invoice Number 11232
Spartanburg County

Dear Ms. DeBerry:

The S.C. Department of Health and Environmental Control (SCDHEC) has reviewed Spatco Environmental Services invoice number 11232 for the referenced facility.

The invoice has been approved for the full amount of $3,920.00. A check for $3,920.00 will be processed and sent to Spatco Environmental Services in approximately three weeks. This is the first and final payment against Cost Proposal 0877. This will close cost proposal 0877.

If you have any questions, feel free to call John Marcucci at (803) 734-0708.

Sincerely,

Janet R. Sheridan

Janet R. Sheridan, Manager
Financial and Data Management Section
Ground-Water Protection Division
Bureau of Drinking Water Protection

JRM/0877FP

cc: Mr. George E. Souther, 195 Goodjoin Road, Campobello, SC 29322

Art Schrader, UST Corrective Action Section

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Services

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Systems

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AUG 3 0 1993

Groundwater
Division

August 27, 1993

Mr. J. B. Williams, Sr.
Rt. 2
Campobello, SC 29322

Subj: AUTHORIZATION TO ACCESS PROPERTY, INTERSECTION OF MT. LEBANON & GOODJOIN ROADS, CAMPOBELLO, SOUTH CAROLINA

Dear Mr. Williams:

SPATCO Environmental Services, Inc. is currently working at the direction of the South Carolina Department of Health & Environmental Control (SCDHEC) to determine the ground-water quality in the vicinity of the above subject property. Soil and ground-water samples must be obtained from the above subject property in order to complete this survey.

SPATCO Environmental is requesting permission to install a ground-water monitoring well on the property. The approximate location of the proposed well is illustrated in the attached Figure. Monitoring well installation will be accomplished utilizing a truck mounted drill rig and will be completed in less than one day. Once completed, the only visible portion of the monitoring well will be an 8-inch diameter manhole cover set in a small concrete pad. The manhole will be raised 2 to 4 inches above the level of the surrounding lot to allow for rain-water runoff while not impeding the normal operation (i.e. traffic, etc.) of the property. The property will be negligibly impacted by the installation, however, any ground disturbances that may occur will be corrected. SPATCO Environmental is fully insured and will be responsible for any problems that arise as a direct result of the well installation. Following completion of well installation, a SPATCO Environmental representative will visit the site periodically and collect ground-water samples from the well.

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Sincerely,
SPATCO ENVIRONMENTAL

Bramley Stafford
Project Manager

Enclosures:

cc: ✓Arthur Shrader
SCDHEC, GWPD

400 Arbor Lake Drive
Suite A-600
Columbia, SC
29223.4535

803.735.8595
FAX 735.8663

Corporate Office
Charlotte, NC
704.597.5960

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AUG 30 1993

Groundwater Protection
Division

August 27, 1993

Mrs. Annie L. Frady Wolfe
Rt. 2 Box 268
Campobello, SC 29322

Subj: AUTHORIZATION TO ACCESS PROPERTY, INTERSECTION OF MT. LEBANON & GOODJOIN ROADS, CAMPOBELLO, SOUTH CAROLINA

Dear Mrs. Wolfe:

SPATCO Environmental Services, Inc. is currently working at the direction of the South Carolina Department of Health & Environmental Control (SCDHEC) to determine the ground-water quality in the vicinity of the above subject property. Soil and ground-water samples must be obtained from the above subject property in order to complete this survey.

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Sincerely,
SPATCO ENVIRONMENTAL

Bramley Stafford
Project Manager

Enclosures:

cc: ✓Arthur Shrader
SCDHEC, GWPD

400 Arbor Lake Drive
Suite A-800
Columbia, SC
29223.4535

803.735.8595
FAX 735.8663

Corporate Environmental
Charlotte, NC
704.597.5960

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August 27, 1993

R
AUG 3 0 1993
Groundwater Protection
Division

Mrs. Becky Arms
143 Northway Drive
Landrum, SC 29356

Subj: AUTHORIZATION TO ACCESS PROPERTY, INTERSECTION OF MT. LEBANON & GOODJOIN ROADS, CAMPOBELLO, SOUTH CAROLINA

Dear Mrs. Arms:

SPATCO Environmental Services, Inc. is currently working at the direction of the South Carolina Department of Health & Environmental Control (SCDHEC) to determine the ground-water quality in the vicinity of the above subject property. Soil and ground-water samples must be obtained from the above subject property in order to complete this survey.

SPATCO Environmental is requesting permission to install a ground-water monitoring well on the property. The approximate location of the proposed well is illustrated in the attached Figure. Monitoring well installation will be accomplished utilizing a truck mounted drill rig and will be completed in less than one day. Once completed, the only visible portion of the monitoring well will be an 8-inch diameter manhole cover set in a small concrete pad. The manhole will be raised 2 to 4 inches above the level of the surrounding lot to allow for rain-water runoff while not impeding the normal operation (i.e. traffic, etc.) of the property. The property will be negligibly impacted by the installation, however, any ground disturbances that may occur will be corrected. SPATCO Environmental is fully insured and will be responsible for any problems that arise as a direct result of the well installation. Following completion of well installation, a SPATCO Environmental representative will visit the site periodically and collect ground-water samples from the well.

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Sincerely,
SPATCO ENVIRONMENTAL

Bramley Stafford
Project Manager

Enclosures:

cc: ✓Arthur Shrader
SCDHEC, GWPD

400 Arbor Lake Drive
Suite A-600
Columbia, SC
29223.4535

803.735.8595
FAX 735.8663

Corporate Office
Charlotte, NC
704.597.5960

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South Carolina
DHEC
Department of Health and Environmental Control
2600 Bull Street, Columbia, SC 29201

Interim Commissioner: Thomas E. Brown, Jr.

Board: John H. Burriss, Chairman
Richard E. Jabbour, DDS, Vice Chairman
Robert J. Stripling, Jr. Secretary

William E. Applegate, III,
Toney Graham, Jr., MD
Sandra J. Molander
John B. Pate, MD

Promoting Health, Protecting the Environment

August 16, 1993

George E. Souther
195 Goodjoin Road
Campobello, SC 29322

Re: Souther's Grocery
GWPD Site ID: #08650
Soil Corrective Action Plan received July 19, 1993
Spartanburg County

Dear Mr. Souther:

The referenced plan has been reviewed by the Ground-Water Protection Division of the South Carolina Department of Health and Environmental Control (SCDHEC). Based on the analtical results submitted (i.e., all 10 samples below detection limits) for the 440 cubic yards of stockpiled soil at the site, the soil contains no significant contamination and can be spread on site or used at your discretion at another location. Please be advised that SUPERB will pay for preparation of the above referenced plan and associated analyses under Cost Proposal # 0877. SUPERB will not pay for further analyses, removal, transportation, or treatment of this soil.

On all future correspondence, please reference the **GWPD Site ID number 08650.** Questions concerning the above should be addressed to my attention at (803) 734-0890.

Sincerely,

Arthur Shrader, Hydrogeologist
UST Federal Corrective Action Section
Ground-Water Protection Division
Bureau of Drinking Water Protection

08650.sol

cc: F&DM Section
Brad Keith, Appalachia III District EQC
J. Michael Saboe, SPATCO Environmental

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JUL 20 1993
Groundwater Protection
Division

July 19, 1993

Mr. Arthur Shrader, Hydrogeologist
UST Corrective Action Section
Ground-Water Protection Division
Bureau of Drinking Water Protection
South Carolina Department of Health
and Environmental Control
2600 Bull St.
Columbia, SC 29201

Regarding: Souther's Grocery
Goodjoin Rd. and Mt. Lebanon Rd.
Campobello, SC 29322
GWPD SITE ID#: #08650
Cost Proposal#: 0877

Dear Mr. Shrader:

Enclosed please find analytical results and chain of custody documentation for soil stockpile sampling conducted at the above-referenced site on June 24, 1993. The soil stockpile was generated as a result of UST closure activities conducted in December 1991, and is located on the southwest side of Goodjoin Road, approximately one-quarter mile southeast of Souther's Grocery. The stockpile contains approximately 400 cubic yards of soil.

SPATCO Environmental collected ten vertical composite soil samples from various locations within the stockpile and submitted these samples for laboratory analysis per the Soil/Ground-Water Remediation Guidance Document of March 3, 1992. Soil samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) via EPA Method 8020 and for Total Petroleum Hydrocarbons (TPH) via EPA Method 5030/3550.

Analytical results (see attached Appendix) indicated BTEX and TPH concentrations below laboratory detection limits for all soil samples. Based on these data, SPATCO Environmental recommends that the SCDHEC grant permission for the soil to be spread on site or used as clean fill.

400 Arbor Lake Drive
Suite A-800
Columbia, SC
29223.4535

803.735.8595
FAX 735.8663

Corporate Environmental
Charlotte, NC
704.597.5960

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SPATCO

If you have any questions or require any additional information, please contact our office.

Sincerely yours,

Thomas R. Spinek

Thomas R. Spinek
Senior Project Manager

Attachment: Appendix- Laboratory Analytical Results and Chain of Custody Documentation

c: Mr. George E. Souther

SPATCO

APPENDIX

HYDROLOGIC COLUMBIA
Sample Data Report
SC Certification No. 40101

Date : 7/7/93
Project : Souther's Grocery
Client : Spatco Environmental
Date Collected : 6/24/93
Date Received : 6/28/93
Date Analyzed : 7/4/93
Date Reported : 7/6/93

Sample ID	Client ID	Benzene	Toluene	Ethyl Benzene	Xylenes	5030 TPH	3550 TPH
93-4489	SP-1	<6.0	<6.0	<6.0	<18.0	<0.1	<1.0
93-4490	SP-2	<6.0	<6.0	<6.0	<18.0	<0.1	<1.0
93-4491	SP-3	<6.0	<6.0	<6.0	<18.0	<0.1	<1.0
93-4492	SP-4	<6.0	<6.0	<6.0	<18.0	<0.1	<1.0
93-4493	SP-5	<6.0	<6.0	<6.0	<18.0	<0.1	<1.0

BTEX Units = ug/kg (parts per billion) soil by M8020
TPH Units = mg/kg (parts per million) soil by M5030/3550

Data Approved for Release:

Joy G. Clark
Joy G. Clark
Lab Manager

RECEIVED JUL 08 1993

HYDROLOGIC, INC.

HYDROLOGIC COLUMBIA
Sample Data Report
SC Certification No. 40101

Date : 7/7/93
Project : Souther's Grocery
Client : Spatco Environmental
Date Collected : 6/24/93
Date Received : 6/28/93
Date Analyzed : 7/4/93
Date Reported : 7/6/93

Sample ID	Client ID	Benzene	Toluene	Ethyl Benzene	Xylenes	5030 TPH	3550 TPH
93-4484	SP-6	<6.0	<6.0	<6.0	<18.0	<0.1	<1.0
93-4485	SP-7	<6.0	<6.0	<6.0	<18.0	<0.1	<1.0
93-4486	SP-8	<6.0	<6.0	<6.0	<18.0	<0.1	<1.0
93-4487	SP-9	<6.0	<6.0	<6.0	<18.0	<0.1	<1.0
93-4488	SP-10	<6.0	<6.0	<6.0	<18.0	<0.1	<1.0

BTEX Units = ug/kg (parts per billion) soil by M8020
TPH Units = mg/kg (parts per million) soil by M5030/3550

Data Approved for Release:

Joy G. Clark

Joy G. Clark
Lab Manager

100 ASHLAND PARK LANE / COLUMBIA, S.C. 29210 / (803) 750-0913 / FAX: (803) 750-9505 / TOLL FREE: 1-800-243-0913

Chain of Custody Record

SPATCO environmental
400 ARBOR LAKE DRIVE
SUITE A-600
COLUMBIA, S.C. 29223
ATTN: Tom Spinek
803-735-8595
803-735-8663 (FAX)

send results and invoices and return coolers, ice packs and completed chain of custody records to:

PROJECT: Southern Grocery	LABORATORY UTILIZED: Hydrologic
SITE OF SAMPLE COLLECTION: Campobello, SC	
COLLECTED BY (signature): Eric F Pattison	SHIPPED VIA: cooler
CONTAINERS SEALED BY (signature): Eric F Pattison	CONTAINERS OBTAINED FROM: Lab
COOLER SEALED BY (signature):	PRESERVATIVE USED: Ice
	STORAGE TEMPERATURE: ☐ AMBIENT ☒ 4°C ☐ OTHER
WORK ORDER #: 9-4175	
PURCHASE ORDER #:	

FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME	NO. OF CONTAINERS	BTEX (MA020)	TPH (5030/3550)				Soil			REMARKS
SP-1 2'	Soil	6/24/93 10:00	1	X	X							93-4489
SP-2 4'			1	X	X							93-4490
SP-3 2'			1	X	X							93-4491
SP-4 4'			1	X	X							93-4492
SP-5 2'			1	X	X							93-4493
		✓										

SPECIAL INSTRUCTIONS TO LABORATORY OR REMARKS

SUPER 6 TURNAROUND <Stockpile samples>

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME
Pattison	6/25/93	16:00						

LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP°C	SEAL
D. Mapdell	6/29/93	1:00						

REMARKS

Chain of Custody Record

SPATCO environmental
400 ARBOR LAKE DRIVE
SUITE A-600
COLUMBIA, S.C. 29223
ATTN: Tom S
803-735-8595
803-735-8663 (FAX)

send results and invoices and return coolers, ice packs and completed chain of custody records to:

PROJECT: Souther's Grocery	LABORATORY UTILIZED: Hydrologic
SITE OF SAMPLE COLLECTION: Campobello, SC	
COLLECTED BY (signature): Eric Hatthart	SHIPPED VIA: cooler
CONTAINERS SEALED BY (signature): Eric Hatthart	CONTAINERS OBTAINED FROM: Lab
COOLER SEALED BY (signature):	PRESERVATIVE USED: Ice
	STORAGE TEMPERATURE ☐ AMBIENT ☒ 4°C ☐ OTHER
WORK ORDER #: 9-4175	
PURCHASE ORDER #:	

FIELD SAMPLE I.D.		SAMPLE MATRIX	DATE/TIME	NO. OF CONTAINERS	BTEX (MRV20)	TPH (3550/3030)			Soil				REMARKS
SP-6	4'	Soil	6/24/93 10:00	1	X	X							93-4484
SP-7	4'	↓	↓	1	X	X							93-4485
SP-8	3'	↓	↓	1	X	X							93-4486
SP-9	3'	↓	↓	1	X	X							93-4487
SP-10	3'	↓	↓	1	X	X							93-4488

SPECIAL INSTRUCTIONS TO LABORATORY OR REMARKS

SUPERb <Stock pile samples>

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME
Eric Hatthart	6/25/93	16:00						

LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP°C	SEAL
D. Campbell	6/25/93	1:00						

REMARKS

South Carolina
DHEC
Department of Health and Environmental Control
2600 Bull Street, Columbia, SC 29201

Interim Commissioner: Thomas E. Brown.

Board: John H. Burriss, Chairman
Richard E. Jabbour, DDS, Vice Chairman
Robert J. Stripling, Jr. Secretary

William E. Applegate, III,
Toney Graham, Jr., MD
Sandra J. Molander
John B. Pate, MD

Promoting Health, Protecting the Environment

June 7, 1993

George E. Souther
195 Goodjoin Road
Campobello, SC 29322

Re: Souther's Grocery
GWPD Site ID: #08650
Soil Corrective Action Plan Cost Proposal received
April 30, 1993
Spartanburg County

Dear Mr. Souther:

The referenced submittal has been placed on file by the Ground-Water Protection Division of the South Carolina Department of Health and Environmental Control (SCDHEC). Assessment activities related to the contaminated soil stockpile at the site can be initiated immediately upon receipt of this letter. A soil corrective action plan shall be submitted on or before **July 30, 1993**.

The cost proposal has been approved as submitted and will be kept on file so that direct billing can begin. Please reference **CP#0877** on all pertinent invoices and correspondence. A copy of the SCDHEC's cost proposal spreadsheet that reflects adjustments to items not meeting established criteria has been provided your contractor. **Items in the Cost Proposal not appearing on the enclosed spreadsheet have been deemed inappropriate by the SCDHEC and should not be billed to the SCDHEC**. If additional justification is provided, the SCDHEC may allow those previously deleted items to be paid by direct contractor payment. All invoices will be processed as expeditiously as possible as long as SUPERB funds are available.

As payee, you must retain all pertinent technical and financial documents related to this site in accordance with Section 44-2-130 of the SUPERB statute. A detailed audit of work performed will be conducted at a later date and will be subject to review under the current criteria. If it is determined that inappropriate payments were made, SCDHEC will seek cost recovery.

All laboratories utilized must be certified in the state of South Carolina for volatile organic analyses in accordance with R.61-81. All monitoring wells and piezometers, whether temporary or permanent, must be installed by or under the **direct** supervision of a S.C. certified well driller as required by Section 40-23-10 of the 1976 SC Code of Laws.All hydrogeological work and submittals that include geological interpretation are required by the S.C. Boards of Registration and by Section 44-2-120 of the SUPERB Act to be supervised/sealed by a S.C. certified Professional Geologist (PG) or Professional Engineer (PE) with training and/or experience in the geological discipline.

The plan **must be**: 1) conducted by or under the supervision of appropriately certified SC registered professional(s), 2) conducted by a contractor with the necessary bonding or insurance (unless #1 above is satisfied), 3) conducted in accordance with accepted industry standards, 4) technically justified, 5) completed in a cost effective manner that adequately protects human health and the environment, and 6) conducted in compliance with all SUPERB criteria for direct billing or reimbursement.

recycled paper

The SCDHEC reserves the authority to pay only for work properly performed and/or technically justified. The SCDHEC will only pay rates in accordance with established criteria. Further, the 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 the work. Also, the SCDHEC will seek cost recovery where appropriate. This notice to proceed with the work plan does not, in any way, acknowledge SCDHEC concurrence that all the elements contained therein will be necessary at this site.

If the above criteria are not followed, the SCDHEC reserves the right to initiate one or more of the following actions as appropriate; 1) Refer the contractor to the Boards of Registration for Professional Geologists and Engineers, 2) seek cost recovery in accordance with Section 44-2-50 of the SUPERB Act, and/or 3) prohibit future participation in the SUPERB program by the contractor in accordance with Section 44-2-120 of the SUPERB Act.

On all future correspondence, please reference the **GWPD Site ID number 08650**. Questions concerning the above should be addressed to my attention at (803) 734-0890.

Sincerely,

Arthur Shrader, Hydrogeologist
UST Corrective Action Section
Ground-Water Protection Division
Bureau of Drinking Water Protection

08650.scp

cc: F&DM Section
Brad Keith, Appalachia III District EQC
Thomas R. Spinek, SPATCO Environmental (with Cost Proposal Spreadsheet and Update Sheet)

South Carolina
DHEC
Department of Health and Environmental Control
2600 Bull Street, Columbia, SC 29201

Interim Commissioner: Thomas E. Brown.

Board: John H. Burriss, Chairman
Richard E. Jabbour, DDS, Vice Chairman
Robert J. Stripling, Jr. Secretary

William E. Applegate, III,
Toney Graham, Jr., MD
Sandra J. Molander
John B. Pate, MD

Promoting Health, Protecting the Environment

May 3, 1993

George E. Souther
195 Goodjoin Road
Campobello, SC 29322

RE: Souther's Grocery
GWPD Site ID: #08650
Reimbursement Request #3846 received February 10, 1993
Spartanburg County

Dear Mr. Souther:

The Ground-Water Protection Division of the South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed the above referenced financial submittal. The invoice, reflecting costs incurred for Initial Assessment Plan preparation, is payable in the amount of **$3,091.60.** This amount reflects the subtraction of:

- $32.00 less representing a rate change from project manager to geologist for work done in the field (2 hours).

- $69.00 less for analysis based on the actual charges paid for analyses ($1,140.00) plus allowable 15% handling fee.

A check made payable to you will be processed by the SCDHEC Finance Department in approximately three to four weeks. If you have any questions regarding this payment, feel free to contact Arthur Shrader at (803) 734-0890.

Sincerely,

Christopher S.Doll, P.G., Manager
UST Corrective Action Section
Ground-Water Protection Division
Bureau of Drinking Water Protection

086501.inv

cc: Thomas R. Spinek, SPATCO Environmental
F&DM Section, GWPD
Arthur Shrader, GWPD

recycled paper

SPATCO Environmental Services
SPATCO Liquid Process Technology
SPATCO Petro Marketing Systems

SPATCO

April 29, 1993

RECEIVED
APR 30 1993
Groundwater Protection Division

Mr. Arthur Shrader
Ground-Water Protection Division
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, SC 29201

Re: Souther's Grocery
GWPD Site ID: #08650
Soil Stockpile

Dear Mr. Shrader:

Enclosed please find two (2) copies of the cost proposal for soil sampling and analysis of the soil stockpile from Souther's Grocery in Campobello, South Carolina. The soil stockpile was generated as a result of UST closure activities conducted in December, 1991 and is located on the southwest side of Goodjoin Road, approximately one-quarter mile southeast of Souther's Grocery. The soil stockpile contains an estimated 400 cubic yards of petroleum-impacted soils.

SPATCO Environmental proposes to collect ten (10) composite soil samples for laboratory analysis from the stockpile, per the Soil/Ground-Water Remediation Guidance Document of March 3, 1992. A Soil Corrective Action Plan (SCAP) will be submitted to the South Carolina Department of Health and Environmental Control (SCDHEC) with the results of the laboratory analysis.

Two SUPERB Cost Proposal signature pages have been mailed to Mr. George Souther for his required signature. Mr. Souther will mail you these original signature pages to complete the enclosed cost proposals.

If you have any questions or require any additional information please contact our office at (803) 735-8595.

Very truly yours,

Thomas R. Spinek

Thomas R. Spinek
Senior Project Manager

CP# 0877
5/5/93

Enclosure: Cost Proposal - two (2) copies

cc: Mr. George E. Souther

400 Arbor Lake Drive
Suite A-600
Columbia, SC
29223.4535

803.735.8595
FAX 735.8663

Corporate Office
Charlotte, NC
704.597.5960

Printed on recycled paper

SCDHEC Project # 08650

COST PROPOSAL SIGNATURE PAGE

Name (Responsible Party)

Signature (Required for Direct Billing) Title

Date signed Phone

Name (Contractor)

Signature Title

Date signed Phone

Federal Tax ID/SSN # of Payee

Original to be
SUBMITTED BY
George E. Souther
(803) 895-1883 W
(803) 895-3253 H

South Carolina
DHEC
Department of Health and Environmental Control
2600 Bull Street, Columbia, SC 29201

Interim Commissioner: Thomas E. Brown, Jr.

Board: John H. Burriss, Chairman
Richard E. Jabbour, DDS, Vice Chairman
Robert J. Stripling, Jr. Secretary

William E. Applegate, III.
Toney Graham, Jr., MD
Sandra J. Molander
John B. Pate, MD

Promoting Health, Protecting the Environment

April 23, 1993

George E. Souther
195 Goodjoin Road
Campobello, SC 29322

Re: Souther's Grocery
GWPD Site ID: #08650
Expanded Assessment Plan (EAP) and
Associated Cost Proposal received August 14, 1992
Spartanburg County

Dear Mr. Souther:

The referenced submittals have been placed on file by the Ground-Water Protection Division of the South Carolina Department of Health and Environmental Control (SCDHEC). Assessment activities at the site can be initiated immediately upon receipt of this letter. Monitoring well approval for a maximum of 13 shallow monitoring wells, two recovery wells, and two telescoping deep wells has been issued to your site rehabilitation contractor; a copy of the approval form is enclosed for your records. In accordance with the implementation schedule provided in the EAP, the assessment report shall be submitted on or before November 19, 1993.

The associated cost proposal will be kept on file so that direct billing can begin. Any rates and/or other criteria included therein may have been adjusted on the cost proposal to insure compliance with current SUPERB program criteria per Section 44-2-20(2). Please reference CP#0751 on all pertinent invoices and correspondence. A copy of the SCDHEC's cost proposal spreadsheet that reflects adjustments to items not meeting established criteria has been provided your contractor. **Items in the Cost Proposal not appearing on the enclosed spreadsheet have been deemed inappropriate by the SCDHEC and should not be billed to the SCDHEC.** If additional justification is provided, the SCDHEC may allow those previously deleted items to be paid by direct contractor payment. All invoices will be processed as expeditiously as possible as long as SUPERB funds are available.

A monthly status update form has been provided to your contractor. A copy of this form must be completed and submitted with each monthly invoice in accordance with established program criteria. See current SCDHEC guidance documents for additional detail.

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As a payee, you must retain all pertinent technical and financial documents related to this site in accordance with Section 44-2-130 of the SUPERB statute. A detailed audit of work performed will be conducted at a later date and will be subject to review under the current criteria. If it is determined that inappropriate payments were made, SCDHEC will seek cost recovery.

All laboratories utilized must be certified in the state of South Carolina for volatile organic analyses in accordance with R.61-81. All monitoring wells and piezometers, whether temporary or permanent, must be installed by or under the **direct** supervision of a S.C. certified well driller as required by Section 40-23-10 of the 1976 SC Code of Laws. All hydrogeological work and submittals that include geological interpretation are required by the S.C. Boards of Registration and by Section 44-2-120 of the SUPERB Act to be supervised/sealed by a S.C. certified Professional Geologist (PG) or Professional Engineer (PE) with training and/or experience in the geological discipline.

The assessment **must be:** 1) conducted by or under the supervision of appropriately certified SC registered professional(s), 2) conducted by a contractor with the necessary bonding or insurance (unless #1 above is satisfied), 3) conducted in accordance with accepted industry standards, 4) technically justified, 5) completed in a cost effective manner that adequately protects human health and the environment, and 6) conducted in compliance with all SUPERB criteria for direct billing or reimbursement.

The SCDHEC reserves the authority to pay only for work properly performed and/or technically justified. The SCDHEC will only pay rates in accordance with established criteria. Further, the 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 the work. Also, the SCDHEC will seek cost recovery where appropriate. This notice to proceed with the work plan does not, in any way, acknowledge SCDHEC concurrence that all the elements contained therein will be necessary at this site.

If the above criteria are not followed, the SCDHEC reserves the right to initiate one or more of the following actions as appropriate; 1) Refer the contractor to the Boards of Registration for Professional Geologists and Engineers, 2) seek cost recovery in accordance with Section 44-2-50 of the SUPERB Act, and/or 3) prohibit future participation in the SUPERB program by the contractor in accordance with Section 44-2-120 of the SUPERB Act.

On all future correspondence, please reference the **GWPD Site ID number 08650.** Questions concerning the above should be addressed to my attention at (803) 734-0890.

Sincerely,

Arthur Shrader, Hydrogeologist
UST Corrective Action Section
Ground-Water Protection Division
Bureau of Drinking Water Protection

08650.eap

Enc: Monitoring Well Approval Form

cc: F&DM Section
Brad Keith, Appalachia III District EQC
Karen C. Moore, SPATCO Environmental (with Status Update Form and Cost Proposal Spreadsheet)

South Carolina
DHEC
Department of Health and Environmental Control
2600 Bull Street, Columbia, SC 29201

Interim Commissioner: Thomas E. Brown, Jr.

Board: John H. Burriss, Chairman
Richard E. Jabbour, DDS, Vice Chairman
Robert J. Stripling, Jr. Secretary

William E. Applegate, III,
Toney Graham, Jr., MD
Sandra J. Molander
John B. Pate, MD

Promoting Health, Protecting the Environment

March 24, 1993

Raymond L. Knox
SPATCO Environmental Services
400 Arbor Lake Drive, Suite A-600
Columbia, SC 29223-4535

RE: Souther's Grocery
GWPD Site ID: #08650
Invoice #7138 received August 14, 1992
Spartanburg County

Dear Mr. Knox:

The Ground-Water Protection Division of the South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed the above referenced financial submittal. The invoice, reflecting costs incurred for Expanded Assessment Plan preparation, is payable in the full amount of **$1,691.00.** A check made payable to SPATCO Environmental will be processed by the SCDHEC Finance Department in approximately three to four weeks.

If you have any questions regarding this payment, feel free to contact Arthur Shrader at (803) 734-0890.

Sincerely,

Scott McElmore for

Christopher S.Doll, P.G., Manager
UST Corrective Action Section
Ground-Water Protection Division
Bureau of Drinking Water Protection

08650.inv

cc: George E. Souther, Souther's Grocery
F&DM Section, GWPD
Arthur Shrader, GWPD

recycled paper

Art

No.

S. C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

DIRECT EXPENDITURE OR PERSONAL SERVICE VOUCHER

GW 02004

2. Payee	SPATCO Environmental Svs.	3. Vendor No.	4. Cost Center Title
Address	400 Arbor Lake Dr., Suite A-600 (Street Address)		Ground-Water Protection D
	Columbia, SC 29223-4535 (City, State, Zip)		

5. Dates	6. Description	7. Amounts
03-25-93	Reimbursement through contractor payment of expenses	1690.00
	incurred in remediation of release from underground storage	
	tanks as provided under Section 44-2-130 SC Code of Laws	
	(SUPERB Act).	
	Souther's Grocery	
	GWPD #08650	
	Spartanburg County	
	Fed Tax I.D. #56-0408360	
	Inv. #7138	
	8. Total	1690.00

9. It is hereby certified that the items represented in this voucher were authorized, received, inspected, and accepted, and this amount is approved for payment.

03-25-93 — Date

James P. Shenda

10. The above amounts are correct.

Signature

Social Security Number

11. Account numbers and amounts to be charged.

1-2 KF	3-5 T Code	6-10 Voucher No	11	12-17 Document No.	18-22 Vendor No.	23-32 Invoice No.	39-43 Manual Vo.	44 Tax	45-52 Gross Amount	53-57 Discount	58- Net A
P 2			1		54998						

KF	T Code	Voucher No.			Cost Center	Fund	Class	Analytical	Amou
P 2			2		4AE10	R040	52140	AE160	1690.00

1-2 3-5 6-10 11 12-16 17-20 21-25 26-35 52-56

DHEC 108 (Rev. 3/81)

South Carolina
DHEC
Department of Health and Environmental Control
2600 Bull Street, Columbia, SC 29201

Interim Commissioner: Thomas E. Brown, Jr.

Board: John H. Burriss, Chairman
Richard E. Jabbour, DDS, Vice Chairman
Robert J. Stripling, Jr. Secretary
William E. Applegate, III,
Toney Graham, Jr., MD
Sandra J. Molander
John B. Pate, MD

Promoting Health, Protecting the Environment

March 22, 1993

George E. Souther
195 Goodjoin Road
Campobello, SC 29322

Re: Souther's Grocery
GWPD Site ID: #08650
SUPERB eligibility
Telephone conversation February 17, 1993
Spartanburg County

Dear Mr. Souther:

The Ground-Water Protection Division of the South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed the above referenced site's eligibility to receive funding from the State Underground Petroleum Environmental Response Bank Act of 1988 (SUPERB). None of the exclusions listed in 44-2-110 and -130 exist, and the release was reported during the grace period. Further, the Department has determined that site rehabilitation is necessary. Therefore, the use of SUPERB for site rehabilitation is approved. A SUPERB Guidance document is enclosed for your information.

During the above referenced telephone conversation, it was indicated potentially contaminated soil stockpiles remain at this site as a result of UST closure activities in December, 1991. A Soil Corrective Action Plan (S-CAP) should be submitted on or before April 30, 1993. Requirements for the S-CAP are detailed in the enclosed Remediation Guidance document.

On all correspondence concerning this site, please reference GWPD #08650. If you have any questions, feel free to call me at (803) 734-0890.

Sincerely,

Arthur Shrader, Hydrogeologist
UST Corrective Action Section
Ground-Water Protection Division
Bureau of Drinking Water Protection

08650.int

recycled paper

Encl: SUPERB Guidance
Remediation Guidance Document

cc: Karen C. Moore, SPATCO Environmental Services
Brad Keith, Appalachia III District EQC
F&DM Section, GWPD

195 Goodjoin Road
Campobello, South Carolina 29322
Feb. 23, 1993

08650

South Carolina DEHEC
2600 Bull Street
Columbia, S.C. 29201

Dear Sir:

This is to inform you that I have not at this time or in the past had insurance that covered environmental work done at Souther's Grocery and Service at 195 Goodjoin Road.

Sincerely yours,
George E. Souther

RECEIVED
MAR
Bureau of Environmental Health
S. C. Department of Health &
Environmental Control

RECEIVED
MAR 05 1993
Groundwater Pro
Division

Feb 17, 93

1 - Telephone call with RP (Mr George E. Souther; # 803 895-1288) and requested insurance policy. He stated he had <u>no</u> insurance and would forward letter. He requested that soil be removed (± 5 dump truck loads)

2 - Contacted Raymond Knox, Columbia SPATCO for file. Mr Knox stated he had mailed out SPATCO file of site yesterday (Tuesday, 17 Feb 93). I asked if SOIL-CAP was part of the file, he stated he thought so, but if there wasn't one when I received the package call him or Karen Moore back.

SPATCO
Environmental
Services

SPATCO
Liquid Process
Technology

SPATCO
Petro Marketing
Systems

SPATCO

August 14, 1992

Mr. Jim Hess
Ground-Water Protection Division
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, SC 29201

Re: Southers Grocery, Campobello, S.C.

Dear Mr. Hess:

Please find enclosed two (2) copies of the Environmental Assessment Plan, and one copy each of the SUPERB Cost Proposal and Invoice, for the above referenced facility. These were formulated per the South Carolina Department of Health and Environmental Control (SCDHEC) guidance for Assessment Proposals in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations.

If you should have any questions, or require any further information please contact us at (803) 735-8595.

Sincerely,
SPATCO ENVIRONMENTAL
Karen C. Moore

Karen C. Moore, G.I.T.
Project Manager

Enclosures: Assessment Plan
Cost Proposal
Invoice

cc: Mr. George Southers/Responsible Party

RECEIVED
AUG 14 1992
Groundwater Protection
Division

400 Arbor Lake Drive
Suite A-600
Columbia, SC
29223.4535

803.735.8595
FAX 735.8663

Corporate Office
Charlotte, NC
704.597.5960

Printed on recycled paper

South Carolina
DHEC
Department of Health and Environmental Control
Robert Mills Complex, Box 101106
Columbia, SC 29211

Commissioner: Michael D. Jarrett

Board: William E. Applegate, III, Chairman
John H. Burriss, Vice Chairman
Richard E. Jabbour, DDS, Secretary

Toney Graham, Jr., MD
Sandra J. Molander
John B. Pate, MD
Robert J. Stripling, Jr.

Promoting Health, Protecting the Environment

March 23, 1992

GEORGE SUTHERS
RT. 2
CAMPOBELLO, S.C. 29322

Re: GEORGE SUTHERS, CAMPOBELLO
GWPD Site # 08650
Release Report dated DECEMBER 31, 1991
SPARTANBURG County

Dear MR. GEORGE SUTHERS:

The Ground-Water Protection Division (GWPD) of the South Carolina Department of Health and Environmental Control (SCDHEC) has received the above referenced release report. Soil contamination at this site has been confirmed at levels that require rehabilitation. This letter addresses the following topics: SUPERB Qualification, Initial Abatement, Free Product Recovery, Checklists, Expanded Assessment Plan, SUPERB Payment of the Expanded Assessment Plan, SUPERB Payment of Initial Abatement, and Enforcement.

SUPERB Qualification

Provided none of the exclusions listed in Section 44-2-110 of the State Underground Petroleum Environmental Response Bank Act (**SUPERB**) apply to this site, reasonable costs for site assessment and/or rehabilitation can be paid, either by direct billing or reimbursement, from the **SUPERB** fund in accordance with the enclosed **SUPERB** guidance. Prior to release of **SUPERB** funds, this office must have written confirmation of the existence (or nonexistence) of an environmental insurance policy or financial responsibility mechanism for this site and a written request for **SUPERB** funding.
Please note that reimbursement or direct billing from the SUPERB Account cannot occur until all applicable tank registration fees have been paid. If there are outstanding fees for the subject facility, please contact the Finance and Data Management Section of the Ground-Water Protection Division.

Initial Abatement

It is imperative that the cause of the release be identified and corrected in accordance with Section 280.62 of the South Carolina Underground Storage Tank Control Regulations (SCUSTCR). If the underground storage tank (UST) system is still in

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operation or still contains product, the immediate removal of the product from the UST system and/or immediate performance of a complete system test must be performed. Confirmation of product removal or current results of tightness tests which verify that all existing systems (i.e. USTs and associated lines) are not leaking, must be submitted on or before **August 7, 1992**, in accordance with Sections 280.52 and 280.62 of the SCUSTCR. **SUPERB** funding cannot be made available until the source of the release is stopped.

Free Product Recovery

In accordance with Section 280.64 of the SCUSTCR, if free product has been indicated at the site, please begin free product removal to the maximum extent as practicable and in a manner that minimizes the spread of contamination.

Checklist

Please complete the enclosed standardized checklists and submit with the above required documentation. These checklists will assist you in understanding your responsibilities as well as expediting the assessment of the sites' contamination.

Expanded Assessment Plan

The extent and severity of soil and possible ground water-contamination at this site must be investigated pursuant to Sections 280.64 and 280.65 of the SCUSTCR. In an effort to expedite activities, streamlining of the assessment phase is being promoted. If your response action contractor participates in the streamlining activities, the Expanded Assessment Plan (EAP) would include specifications for the complete assessment (e.g. a sufficient number of boring/well locations, soil or water quality evaluation, aquifer property evaluations) such that a complete Corrective Action Plan can be prepared. This expanded assessment initiative will be allowed only to Responsible Parties and/or contractors who perform work associated with the UST Regulatory Section and/or the UST Corrective Action Sections. Please read the enclosed Assessment Guidance for a complete explanation of the streamlining option.

SUPERB Payment of the EAP

The requested EAP (2 copies) must be submitted on or before **August 7, 1992.** If the Assessment Plan is to be implemented under a Cost Proposal from the contractor, the Cost Proposal must be submitted with the EAP. If a Cost Proposal is not submitted with the plan, cost for EAP implementation can be recovered through reimbursement or Direct Contractor Payment. The cost associated with preparation and submittal of the EAP may be recovered through Direct Contractor Payment or reimbursement. Please note; Direct Contractor Payment Invoices for preparation and submittal of the EAP submitted with the EAP will be processed upon submittal to the SCDHEC.

SUPERB Payment of Initial Abatement

Cost associated with abatement actions (see Sections 280.61 through 280.63 of the SCUSTCR) may be recovered through reimbursement to the Responsible Party or Direct Contractor Payment to the Contractor. This office will not accept Cost Proposals for the work associated with compliance to Sections 280.61 through 280.63 of the SCUSTCR or for preparation and submittal of the Expanded Assessment Plan. Please read the enclosed **SUPERB** guidance for further elaboration on the financial aspects of payment.

Enforcement

The SCDHEC expects all Responsible Parties to comply with the activities required in Sections 280.61 - .64 of the SCUSTCR and of the requests made in this correspondence. Failure to comply with these regulations and/or requests may result in the initiation of enforcement action against the Responsible Party.

On all future correspondence, please reference the **GWPD Site ID number.** Questions concerning the above should be addressed to the Ground-Water Protection Division at 734-5331.

Sincerely,

James R. Hess

James R. Hess, P.G., Manager
UST State Corrective Action Section
Ground-Water Protection Division
Bureau of Drinking Water Protection

enclosure

cc: Appalachia III District EQC
Robertha Dorsey, GWPD

Charlotte, NC Winston-Sa
Raleigh, NC Asheville
Columbia, SC Knoxville

SPATCO

3
leaky Waste Oil Tank

Aug 14, 92

December 31, 1991

RECEIVED
DEC 31 1991
GROUND-WATER PROTECTION DIVISION

Mr. Jim Hess
Ground Water Protection Division
South Carolina Department of Health and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Re: George Suthers (SCDHEC #08650)
Campobello, South Carolina

Dear Mr. Hess:

Enclosed please find analytical results for 12 soil samples obtained from the above referenced facility. The sample locations are shown on the attached figure. All samples were collected from approximately 2 feet below each respective tank bottom. Latex disposable gloves were worn during the sampling to maintain the integrity of each sample. Samples were transferred to appropriately labeled laboratory containers, placed in a cooler with icepacks, and transported to a qualified laboratory for analysis. All sampling equipment was property decontaminated prior to and between samples to prevent any cross-contamination. The purpose of the sample collection was to determine if a release had occurred at the facility.

The analytical results indicate that a release has occurred at the site. A proposal to determine the extent of the contamination will be submitted under separate cover.

On behalf of our client, SPATCO Environmental requests that the site be qualified for the State Underground Petroleum Environmental Response Bank (SUPERB) fund. SPATCO Environmental wishes to use direct billing procedures as outlined in the July 1991 SUPERB Guidance Procedures to pay for all future assessment/remediation costs at the site.

If you have any questions or need any additional information, please feel free to call us at (803) 735-8595.

Sincerely,

Kim Caulk, P.G.
Project Manager

Karen Moore

for Raymond Knox, P.G.
Branch Manager

Enclosures: Analytical Results
Site Map

cc. George Suthers Rt 2 Campobello, SC 29322

\spatco.gen\suthers.rpt

an environmental testing company
6546 Pembroke Road
Miramar, Florida 33023
Broward: (305) 989-0928 Dade: (305) 620-4440
FAX (305) 985-9748

CLIENT: SPATCO ENVIRONMENTAL
400 ARBOR LAKE DRIVE
SUITE A-600
COLUMBIA, SOUTH CAROLINA 29223
ATTN: KIM CAULK

DATE TYPED: 12/29/91

IEA SAMPLE NO: 91-3507

DATE SAMPLED: 12/18/91

CLIENT SAMPLE NO: 3000 GAS #3 B

DATE RECEIVED: 12/20/91

CLIENT PROJECT NO: GEORGE SUTHERS

DATE EXTRACTED: N/A

REPORT OF ANALYSIS

PARAMETERS	3000 GAS #3 B	UNITS	LIMIT OF DETECTION	METHOD
Benzene	< 10	ug/kg	10	EPA 8020
Toluene	< 10	ug/kg	10	EPA 8020
Ethylbenzene	< 10	ug/kg	10	EPA 8020
Xylene	44	ug/kg	10	EPA 8020

The above analysis was performed in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods. Date of analysis 12/27/91. Analyzed by GV. EPA Method 8020. Laboratory I.D.-DHRS #86111, E-86106.

Respectfully submitted,

Kerry Prescott

Kerry Prescott
Director of Operations, Florida

KP/ms

ied
an environmental testing company
6546 Pembroke Road
Miramar, Florida 33023
Broward: (305) 989-0928 Dade: (305) 620-4440
FAX (305) 985-9748

CLIENT: SPATCO ENVIRONMENTAL
400 ARBOR LAKE DRIVE
SUITE A-600
COLUMBIA, SOUTH CAROLINA 29223
ATTN: KIM CAULK

DATE TYPED: 12/29/91

IEA SAMPLE NO: 91-3507

DATE SAMPLED: 12/18/91

CLIENT SAMPLE NO: 3000 GAS #2 B

DATE RECEIVED: 12/20/91

CLIENT PROJECT NO: GEORGE SUTHERS

DATE EXTRACTED: N/A

REPORT OF ANALYSIS

PARAMETERS	3000 GAS #2 B	UNITS	LIMIT OF DETECTION	METHOD
Benzene	420	ug/kg	50	EPA 8020
Toluene	2,300	ug/kg	50	EPA 8020
Ethylbenzene	1,100	ug/kg	50	EPA 8020
Xylene	9,100	ug/kg	50	EPA 8020

The above analysis was performed in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods. Date of analysis 12/27/91. Analyzed by GV. EPA Method 8020. Laboratory I.D.-DHRS #86111, E-86106.

Respectfully submitted,

Kerry Prescott
Director of Operations, Florida

KP/ms

iea
an environmental testing company
6546 Pembroke Road
Miramar, Florida 33023
Broward: (305) 989-0928 Dade: (305) 620-4440
FAX (305) 985-9748

CLIENT: SPATCO ENVIRONMENTAL
400 ARBOR LAKE DRIVE
SUITE A-600
COLUMBIA, SOUTH CAROLINA 29223
ATTN: KIM CAULK

DATE TYPED: 12/29/91

IEA SAMPLE NO: 91-3507

DATE SAMPLED: 12/18/91

CLIENT SAMPLE NO: 4000 GAS F & B

DATE RECEIVED: 12/20/91

CLIENT PROJECT NO: GEORGE SUTHERS

DATE EXTRACTED: N/A

REPORT OF ANALYSIS

PARAMETERS	4000 GAS F	4000 GAS B	UNITS	LIMIT OF DETECTION
Benzene	< 10	< 10	ug/kg	10
Toluene	< 10	< 10	ug/kg	10
Ethylbenzene	< 10	< 10	ug/kg	10
Xylene	< 10	< 10	ug/kg	10

The above analysis was performed in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods. Date of analysis 12/27/91. Analyzed by GV. EPA Method 8020. Laboratory I.D.-DHRS #86111, E-86106.

Respectfully submitted,

Kerry Prescott

Kerry Prescott
Director of Operations, Florida

KP/ms

an environmental testing company
6546 Pembroke Road
Miramar, Florida 33023
Broward: (305) 989-0928 Dade (305) 620-4440
FAX (305) 985-9748

CLIENT: SPATCO ENVIRONMENTAL
400 ARBOR LAKE DRIVE
SUITE A-600
COLUMBIA, SOUTH CAROLINA 29223
ATTN: KIM CAULK

DATE TYPED: 12/29/91

IEA SAMPLE NO: 91-3507

DATE SAMPLED: 12/18/91

CLIENT SAMPLE NO: 3000 GAS #2F & #3F

DATE RECEIVED: 12/20/91

CLIENT PROJECT NO: GEORGE SUTHERS

DATE EXTRACTED: N/A

REPORT OF ANALYSIS

PARAMETERS	3000 GAS #2 F	3000 GAS #3 F	UNITS	LIMIT OF DETECTION
Benzene	< 10	64	ug/kg	10
Toluene	82	130	ug/kg	10
Ethylbenzene	< 10	150	ug/kg	10
Xylene	870	280	ug/kg	10

The above analysis was performed in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods. Date of analysis 12/27/91. Analyzed by GV. EPA Method 8020. Laboratory I.D.-DHRS #86111, E-86106.

Respectfully submitted,

Kerry Prescott
Director of Operations, Florida

KP/ms

an environmental testing company
6546 Pembroke Road
Miramar, Florida 33023
Broward: (305) 989-0928 Dade: (305) 620-4440
FAX (305) 985-9748

CLIENT: SPATCO ENVIRONMENTAL
400 ARBOR LAKE DRIVE
SUITE A-600
COLUMBIA, SOUTH CAROLINA 29223
ATTM: KIM CAULK

DATE TYPED: 12/29/91

IEA SAMPLE NO: 91-3507

DATE SAMPLED: 12/18/91

CLIENT SAMPLE NO: 3000 GAS #1F & #1B

DATE RECEIVED: 12/20/91

CLIENT PROJECT NO: GEORGE SUTHERS

DATE EXTRACTED: N/A

REPORT OF ANALYSIS

PARAMETERS	3000 GAS #1 F	3000 GAS #1 B	UNITS	LIMIT OF DETECTION
Benzene	< 10	< 10	ug/kg	10
Toluene	< 10	47	ug/kg	10
Ethylbenzene	< 10	< 10	ug/kg	10
Xylene	< 10	130	ug/kg	10

The above analysis was performed in accordance with E.P.A., A.S.T.M., Standard Methods or other approved methods. Date of analysis 12/27/91. Analyzed by GV. EPA Method 8020. Laboratory I.D.-DHRS #86111, E-86106.

Respectfully submitted,

Kerry Prescott

Kerry Prescott
Director of Operations, Florida

KP/ms

iea an environme testing company
6546 Pembroke Road
Miramar, Florida 33023
Broward: (305) 989-0928 Dade: (305) 620-4440
FAX (305) 985-9748

CLIENT: SPATCO ENVIRONMENTAL
400 ARBOR LAKE DRIVE
SUITE A-600
COLUMBIA, S.C. 29223
ATTN: KIM CAULK

DATE TYPED: 12/30/91

IEA SAMPLE NO: 91-3507

DATE SAMPLED: 12/18/91

CLIENT SAMPLE NO: 3000 DIESEL B

DATE RECEIVED: 12/20/91

CLIENT PROJECT NO: GEORGE SOUTHERS

DATE EXTRACTED: 12/26/91

TOTAL PETROLEUM HYDROCARBON ANALYSIS

Extraction (SW 846 - 3550) / GC-FID analysis (for Diesel only).
Date analyzed: 12/30/91 Analyzed by: RF

The sample does contain a petroleum hydrocarbon blend with a distillation range similar to diesel. The quantitation limit is 1.0 mg/l. The amount found in sample is 2200 mg/kg.

Respectfully submitted,

Kerry Prescott

Kerry Prescott
Director of Operations, Florida

KP/lm

iea
an environmental testing company
6546 Pembroke Road
Miramar, Florida 33023
Broward: (305) 989-0928 Dade: (305) 620-4440
FAX (305) 985 9748

CLIENT: SPATCO ENVIRONMENTAL
400 ARBOR LAKE DRIVE
SUITE A-600
COLUMBIA, S.C. 29223
ATTN: KIM CAULK

DATE TYPED: 12/30/91

IEA SAMPLE NO: 91-3507

DATE SAMPLED: 12/18/91

CLIENT SAMPLE NO: 3000 DIESEL F

DATE RECEIVED: 12/20/91

CLIENT PROJECT NO: GEORGE SOUTHERS

DATE EXTRACTED: 12/26/91

TOTAL PETROLEUM HYDROCARBON ANALYSIS

Extraction (SW 846 - 3550) / GC-FID analysis (for Diesel only).
Date analyzed: 12/30/91
Analyzed by: RF

The sample does contain a petroleum hydrocarbon blend with a distillation range similar to diesel. The quantitation limit is 1.0 mg/l. The amount found in sample is 230 mg/kg.

Respectfully submitted,

Kerry Prescott

Kerry Prescott
Director of Operations, Florida

KP/lm

iea an environme testing company
6546 Pembroke Roa
Miramar, Florida 33023
Broward: (305) 989-0928 Dade: (305) 620 4440
FAX (305) 985-9748

CLIENT: SPATCO ENVIRONMENTAL
400 ARBOR LAKE DRIVE
SUITE A-600
COLUMBIA, S.C. 29223
ATTN: KIM CAULK

DATE TYPED: 12/30/91

IEA SAMPLE NO: 91-3507

DATE SAMPLED: 12/18/91

CLIENT SAMPLE NO: 270 WASTE OIL

DATE RECEIVED: 12/20/91

CLIENT PROJECT NO: GEORGE SOUTHERS

DATE EXTRACTED: 12/26/91

TOTAL PETROLEUM HYDROCARBON ANALYSIS

Extraction (SW 846 - 3550) / GC-FID analysis (for Waste Oil only).
Date analyzed: 12/30/91 Analyzed by: RF

The sample does contain a petroleum hydrocarbon blend with a distillation range similar to waste oil. The quantitation limit is 5.0 mg/l. The amount found in sample is 2500 mg/kg.

Respectfully submitted,

Kerry Prescott

Kerry Prescott
Director of Operations, Florida

KP/lm

an environmental testing company
6546 Pembroke Road
Miramar, Florida 33023
Broward (305) 989 0928 Dade (305) 620-4440
FAX (305) 985-9748

CLIENT: SPATCO ENVIRONMENTAL
400 ARBOR LAKE DRIVE
SUITE A-600
COLUMBIA, S.C. 29223
ATTN: KIM CAULK

DATE TYPED: 12/30/91

IEA SAMPLE NO: 91-3507

DATE SAMPLED: 12/18/91

CLIENT SAMPLE NO: 270 KEROSENE

DATE RECEIVED: 12/20/91

CLIENT PROJECT NO: GEORGE SOUTHERS

DATE EXTRACTED: 12/26/91

TOTAL PETROLEUM HYDROCARBON ANALYSIS

Extraction (SW 846 - 3550) / GC-FID analysis (for Kerosene only).
Date analyzed: 12/30/91 Analyzed by: RF

The sample does contain a petroleum hydrocarbon blend with a distillation range similar to kerosene. The quantitation limit is 1.0 mg/l. The amount found in sample is 2400 mg/kg.

Respectfully submitted,

Kerry Prescott

Kerry Prescott
Director of Operations, Florida

KP/lm

1 of 1

Chain of Custody Record

send results and invoices and return coolers, ice packs and completed chain of custody records to:

SPATCO environmental
5100 North I-85 Service
Suite 8
Charlotte, North Carolina
Attn: Susan Marlowe
704-596-8624
704-596-8605 (FAX)

PROJECT: George Southers

SITE OF SAMPLE COLLECTION: George Southers

COLLECTED BY (signature): Susan Marlowe

CONTAINERS SEALED BY (signature): Susan Marlowe

COOLER SEALED BY (signature): Susan Marlowe

LABORATORY UTILIZED: IEA - Fla.

SHIPPED VIA: Fed Ex.

CONTAINERS OBTAINED FROM: ESS

PRESERVATIVE USED: None

STORAGE TEMPERATURE ☐ AMBIENT ☒ 4°C ☐ OTHER

WORK ORDER #:

PURCHASE ORDER #: signature page

FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME	NO. OF CONTAINERS	TPH 2020	BTEX 8020								REMARKS
270 Kerosene	Soil	12-18-91 2:20 pm	1	X									
270 Wasteoil	Soil	12-18-91 2:40 pm	1	X									
3000 Gas #1 - F	Soil	12-18-91 11:10 am	1		X								
3000 Gas #1 - B	Soil	12-18-91 11:17 am	1		X								
3000 Gas #2 - F	Soil	12-18-91 12:20 pm	1		X								
3000 Gas #2 - B	Soil	12-18-91 12:37 pm	1		X								
3000 Gas #3 - F	Soil	12-18-91 1:30 pm	1		X								

SPECIAL INSTRUCTIONS TO LABORATORY OR REMARKS

RELINQUISHED BY	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY:	DATE	TIME
S. Marlowe	12-20-91	4:10 pm						

LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP °C	SEAL

REMARKS

91-3507

Chain of Custody ecord

send results and i ces and return coolers, ice packs and completed chain of custody records to:

environmental
5100 North I-85 Service
Suite 8
Charlotte, North Carolina
Attn: Susan Marlo
704-596-8624
704-596-8605 (FAX)

PROJECT: George Suthers

SITE OF SAMPLE COLLECTION: George Suthers

COLLECTED BY (signature): Susan Marlowe

CONTAINERS SEALED BY (signature): Susan Marlowe

COOLER SEALED BY (signature): Susan Marlowe

WORK ORDER #:

PURCHASE ORDER #: signature page

LABORATORY UTILIZED: IEA - Fla.

SHIPPED VIA: Fed. E.X.

CONTAINERS OBTAINED FROM: ESS

PRESERVATIVE USED: None

STORAGE TEMPERATURE ☐ AMBIENT ☑ 4°C ☐ OTHER

FIELD SAMPLE I.D.	SAMPLE MATRIX	DATE/TIME	NO. OF CONTAINERS	BTEX 8020	TPH 3550								REMARKS
3000 Gas #3-B	Soil	12-18-91 1:38pm	1	X									
3000 Diesel-F	Soil	12-18-91 3:10pm	1		X								
3000 Diesel-B	Soil	12-18-91 3:48pm	1		X								
4000 Gas-F	Soil	12-18-91 4:40pm	1	X									
4000 Gas-B	Soil	12-18-91 4:47pm	1	X									

SPECIAL INSTRUCTIONS TO LABORATORY OR REMARKS

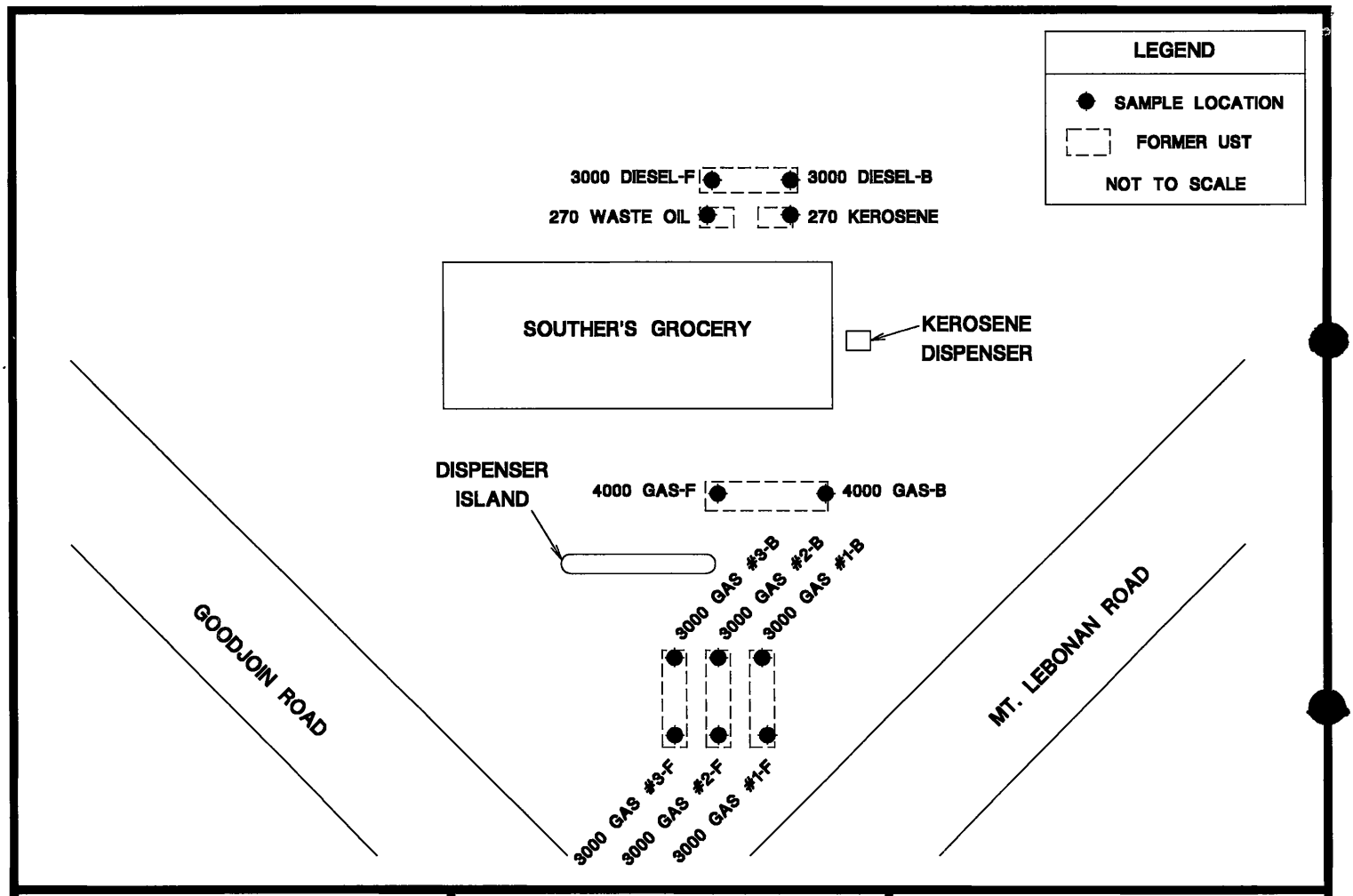
RELINQUISHED BY:	DATE	TIME	RECEIVED BY:	DATE	TIME	RELINQUISHED BY	DATE	TIME
S. Marlowe	12-20-91	4:10pm						

LAB USE ONLY

RECEIVED FOR LABORATORY BY:	DATE	TIME	AIRBILL NO.	OPENED BY:	DATE	TIME	TEMP°C	SEAL

REMARKS

91-3507



W.O. #: 9-1798

DATE: December 18, 1991

SCALE: See Legend

SPATCO environmental

FIGURE 1. SITE MAP WITH SAMPLE LOCATIONS
SOUTHER'S GROCERY
MT. LEBONAN ROAD
CAMPBELLO, SOUTH CAROLINA

D H E C

PROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

UNDERGROUND STORAGE TANK PROGRAM
BUREAU OF LAND AND WASTE MANAGEMENT
2600 Bull Street, Columbia, South Carolina 29201
Telephone: 803-896-6240

RECEIVED
MAY 1 1 2004
UNDERGROUND STORAGE TANK PROGRAM

MEMORANDUM

TO: JA Jones Environmental Services

FROM: Karen Doran

RE: **NOTICE TO PROCEED**

Facility Name: George Souther

Permit Number: 08650

County: Spartanburg

Work To Be Completed: Sample monitoring wells MW-1 through MW-25, PW-1, PW-RW-1 for BTEX, Naph, MtBE, and Lead.

PACE CA# 21518

JA Jones CA# 21517

UST PROGRAM
DOCKETING 03 Tech

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): 04/08/04

Field Personnel: JT

General Weather Conditions: Cloudy

Ambient Air Temperature: 21.1 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Jim Tan	4/9 1700		
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: George Souther Spartanburg

Site ID#: 08650 **Monitoring Well #** MW-1

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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)	13.70		feet
Total Well Depth (TWD)	17		feet
Length of the water column (LWC=TWD-DGW)		3.3	feet
1 casing volume (CV=LWC X C)=	0.163	0.5379	gallons
3 casing volume (3 X CV)=	3	1.6137	gallons

Total Volume of Water Purged Before Sampling 0.0 gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 0-w/in the screen	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: Sample time: 1655
Product film

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): 04/08/04

Field Personnel: JT

General Weather Conditions: Cloudy

Ambient Air Temperature: 21.1 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: George Souther Spartanburg

Site ID#: 08650 **Monitoring Well #** MW-2

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inch

Conversion Factor (C): $3.14 \times (D/2)^2$ 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)	17.30		feet
Total Well Depth (TWD)	17.51		feet
Length of the water column (LWC=TWD-DGW)		0.21	feet
1 casing volume (CV=LWC X C)=	0.163	0.03423	gallons
3 casing volume (3 X CV)=	3	0.10269	gallons

Total Volume of Water Purged Before Sampling 0.0 gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 0-w/in the screen	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: Not sampled due to being not enough water in the 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): 04/08/04
Field Personnel: JT
General Weather Conditions: Cloudy

Ambient Air Temperature: 21.1 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Jim Tan	4/9 1700		
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: George Souther Spartanburg
Site ID#: 08650 **Monitoring Well #** MW-3
Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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)	14.76			feet
Total Well Depth (TWD)	19			feet
Length of the water column (LWC=TWD-DGW)			4.24	feet
1 casing volume (CV=LWC X C)=		0.163	0.69112	gallons
3 casing volume (3 X CV)=		3	2.07336	gallons

Total Volume of Water Purged Before Sampling 0.0 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 0-w/in the screen	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: Sample time: 1649

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): 04/08/04
Field Personnel: JT
General Weather Conditions: Cloudy

Ambient Air Temperature: 21.1 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Jim Tan	4/9 1700		
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: George Souther Spartanburg
Site ID#: 08650 **Monitoring Well #** MW-4
Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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)	9.45			feet
Total Well Depth (TWD)	19			feet
Length of the water column (LWC=TWD-DGW)			9.55	feet
1 casing volume (CV=LWC X C)=		0.163	1.55665	gallons
3 casing volume (3 X CV)=		3	4.66995	gallons

Total Volume of Water Purged Before Sampling 0.0 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 0-w/in the screen	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: Sample time: 1642

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): 04/08/04

Field Personnel: JT

General Weather Conditions: Cloudy

Ambient Air Temperature: 21.1 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: George Souther Spartanburg

Site ID#: 08650 **Monitoring Well #** MW-5

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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:	0.54		feet
Depth to Free Product (DFP)	11.38		feet
Depth to Ground Water (DGW)	11.92		feet
Total Well Depth (TWD)	19.5		feet
Length of the water column (LWC=TWD-DGW)		7.58	feet
1 casing volume (CV=LWC X C)=	0.163	1.23554	gallons
3 casing volume (3 X CV)=	3	3.70662	gallons

Total Volume of Water Purged Before Sampling 0.0 gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 0-w/in the screen	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: Not sampled

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): 04/08/04
Field Personnel: JT
General Weather Conditions: Cloudy

Ambient Air Temperature: 21.1 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: George Souther Spartanburg
Site ID#: 08650 **Monitoring Well #** MW-6
Water Supply Well **Public** ____ **Private** ____

Monitoring Well Diameter (D): 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:	1.00		feet
Depth to Free Product (DFP)	9.14		feet
Depth to Ground Water (DGW)	10.14		feet
Total Well Depth (TWD)	19		feet
Length of the water column (LWC=TWD-DGW)		8.86	feet
1 casing volume (CV=LWC X C)=	0.163	1.44418	gallons
3 casing volume (3 X CV)=	3	4.33254	gallons

Total Volume of Water Purged Before Sampling 0.0 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 0-w/in the screen	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: Not sampled

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): 04/08/04

Field Personnel: JT

General Weather Conditions: Cloudy

Ambient Air Temperature: 21.1 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
Jim Tan	4/9 1700		

Facility Name: George Souther Spartanburg

Site ID#: 08650 **Monitoring Well #** MW-7

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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)	12.29			feet
Total Well Depth (TWD)	19			feet
Length of the water column (LWC=TWD-DGW)			6.71	feet
1 casing volume (CV=LWC X C)=		0.163	1.09373	gallons
3 casing volume (3 X CV)=		3	3.28119	gallons

Total Volume of Water Purged Before Sampling 0.0 gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	0-w/in the screen	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: Sample time: 1714 Gasoline odor and product drops seen on water

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): 04/08/04
Field Personnel: JT
General Weather Conditions: Cloudy

Ambient Air Temperature: 21.1 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: George Souther Spartanburg
Site ID#: 08650 **Monitoring Well #** MW-8
Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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:	0.08		feet
Depth to Free Product (DFP)	16.75		feet
Depth to Ground Water (DGW)	16.83		feet
Total Well Depth (TWD)	19		feet
Length of the water column (LWC=TWD-DGW)		2.17	feet
1 casing volume (CV=LWC X C)=	0.163	0.35371	gallons
3 casing volume (3 X CV)=	3	1.06113	gallons

Total Volume of Water Purged Before Sampling 0.0 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 0-w/in the screen	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: Not sampled

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): 04/08/04
Field Personnel: JT
General Weather Conditions: Cloudy

Ambient Air Temperature: 21.1 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Jim Tan	4/9 1700		
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: George Souther Spartanburg
Site ID#: 08650 **Monitoring Well #** MW-9
Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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)	18.20			feet
Total Well Depth (TWD)	24			feet
Length of the water column (LWC=TWD-DGW)			5.8	feet
1 casing volume (CV=LWC X C)=		0.163	0.9454	gallons
3 casing volume (3 X CV)=		3	2.8362	gallons

Total Volume of Water Purged Before Sampling 0.0 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 0-w/in the screen	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: Sample time: 1600

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): 04/08/04
Field Personnel: JT
General Weather Conditions: Cloudy

Ambient Air Temperature: 21.1 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: George Souther Spartanburg
Site ID#: 08650 **Monitoring Well #** MW-11
Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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:	0.24		feet
Depth to Free Product (DFP)	13.18		feet
Depth to Ground Water (DGW)	13.42		feet
Total Well Depth (TWD)	23		feet
Length of the water column (LWC=TWD-DGW)		9.58	feet
1 casing volume (CV=LWC X C)=	0.163	1.56154	gallons
3 casing volume (3 X CV)=	3	4.68462	gallons

Total Volume of Water Purged Before Sampling 0.0 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 0-w/in the screen	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: Not sampled

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): 04/09/04
Field Personnel: JT
General Weather Conditions: Sunny

Ambient Air Temperature: 24.4 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Jim Tan	4/9 1700		
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: George Souther Spartanburg
Site ID#: 08650 **Monitoring Well #** MW-12
Water Supply Well **Public** ____ **Private** ____

Monitoring Well Diameter (D): 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)	14.35			feet
Total Well Depth (TWD)	25			feet
Length of the water column (LWC=TWD-DGW)			10.65	feet
1 casing volume (CV=LWC X C)=		0.163	1.73595	gallons
3 casing volume (3 X CV)=		3	5.20785	gallons

Total Volume of Water Purged Before Sampling 5.25 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 5.25-w/in the screen	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		1328	1333	1338				
pH (s.u.)		5.7	5.6	5.4				
Specific Conductivity (μmhos/cm)		0.00	0.00	0.00				
Water Temperature (°C)		19.0	15.9	18.4				
Dissolved Oxygen		6.6	8.5	9.4				
PID readings, if required								

Remarks: Sample time: 1338

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): 04/08/04
Field Personnel: JT
General Weather Conditions: Cloudy

Ambient Air Temperature: 21.1 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
Jim Tan	4/9 1700		

Facility Name: George Souther Spartanburg
Site ID#: 08650 **Monitoring Well #** MW-13
Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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)	5.85			feet
Total Well Depth (TWD)	15			feet
Length of the water column (LWC=TWD-DGW)			9.15	feet
1 casing volume (CV=LWC X C)=		0.163	1.49145	gallons
3 casing volume (3 X CV)=		3	4.47435	gallons

Total Volume of Water Purged Before Sampling 0.0 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 0-w/in the screen	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: Sample time: 1632

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): 04/09/04
Field Personnel: JT
General Weather Conditions: Sunny

Ambient Air Temperature: 24.4 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Jim Tan	4/9 1700		
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: George Souther Spartanburg
Site ID#: 08650 **Monitoring Well #** MW-14
Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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)	6.36			feet
Total Well Depth (TWD)	25			feet
Length of the water column (LWC=TWD-DGW)			18.64	feet
1 casing volume (CV=LWC X C)=		0.163	3.03832	gallons
3 casing volume (3 X CV)=		3	9.11496	gallons

Total Volume of Water Purged Before Sampling 9.0 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 9.0-w/in the screen	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		1535	1544	1553				
pH (s.u.)		6.4	5.7	5.7				
Specific Conductivity (µmhos/cm)		0.01	0.02	0.01				
Water Temperature (°C)		18.4	14.8	15.6				
Dissolved Oxygen		8.5	8.7	10.4				
PID readings, if required								

Remarks: Sample time: 1553

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): 04/09/04
Field Personnel: JT
General Weather Conditions: Sunny

Ambient Air Temperature: 24.4 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
Jim Tan	4/9 1700		

Facility Name: George Souther Spartanburg
Site ID#: 08650 **Monitoring Well #** MW-15
Water Supply Well **Public** ____ **Private** ____

Monitoring Well Diameter (D): 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)	4.75			feet
Total Well Depth (TWD)	25			feet
Length of the water column (LWC=TWD-DGW)			20.25	feet
1 casing volume (CV=LWC X C)=		0.163	3.30075	gallons
3 casing volume (3 X CV)=		3	9.90225	gallons

Total Volume of Water Purged Before Sampling 10.0 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 10-w/in the screen	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		1540	1549	1556				
pH (s.u.)		5.7	5.4	5.7				
Specific Conductivity (μmhos/cm)		0.08	0.09	0.09				
Water Temperature (°C)		15.8	14.5	14.1				
Dissolved Oxygen		8.1	9.4	10.4				
PID readings, if required								

Remarks: Sample time: 1556

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): 04/08/04
Field Personnel: JT
General Weather Conditions: Cloudy

Ambient Air Temperature: 21.1 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Jim Tan	4/9 1700		
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: George Souther Spartanburg
Site ID#: 08650 **Monitoring Well #** MW-16
Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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)	15.54			feet
Total Well Depth (TWD)	35			feet
Length of the water column (LWC=TWD-DGW)			19.46	feet
1 casing volume (CV=LWC X C)=		0.163	3.17198	gallons
3 casing volume (3 X CV)=		3	9.51594	gallons

Total Volume of Water Purged Before Sampling 0.0 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 0-w/in the screen	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: Sample time: 1533

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): 04/09/04

Field Personnel: JT

General Weather Conditions: Sunny

Ambient Air Temperature: 24.4 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Jim Tan	4/9 1700		
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: George Souther Spartanburg

Site ID#: 08650 **Monitoring Well #** MW-17

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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)	12.52		feet
Total Well Depth (TWD)	35		feet
Length of the water column (LWC=TWD-DGW)		22.48	feet
1 casing volume (CV=LWC X C)=	0.163	3.66424	gallons
3 casing volume (3 X CV)=	3	10.99272	gallons

Total Volume of Water Purged Before Sampling 11.0 gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 11-w/in the screen	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		1330	1339	1350				
pH (s.u.)		5.4	5.1	5.4				
Specific Conductivity (µmhos/cm)		0.05	0.08	0.07				
Water Temperature (°C)		19.0	17.1	18.1				
Dissolved Oxygen		7.9	9.3	10.1				
PID readings, if required								

Remarks: Sample time: 1350

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): 04/08/04
Field Personnel: JT
General Weather Conditions: Cloudy

Ambient Air Temperature: 21.1 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
Jim Tan	4/9 1700		

Facility Name: George Souther Spartanburg
Site ID#: 08650 **Monitoring Well #** MW-18
Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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)	20.93		feet
Total Well Depth (TWD)	35		feet
Length of the water column (LWC=TWD-DGW)		14.07	feet
1 casing volume (CV=LWC X C)=	0.163	2.29341	gallons
3 casing volume (3 X CV)=	3	6.88023	gallons

Total Volume of Water Purged Before Sampling 0.0 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 0-w/in the screen	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: Sample time: 1510

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): 04/08/04

Field Personnel: JT

General Weather Conditions: Cloudy

Ambient Air Temperature: 21.1 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Jim Tan	4/9 1700		
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: George Souther Spartanburg

Site ID#: 08650 **Monitoring Well #** MW-19

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inch

Conversion Factor (C): $3.14 \times (D/2)^2$ 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)	22.74			feet
Total Well Depth (TWD)	40			feet
Length of the water column (LWC=TWD-DGW)			17.26	feet
1 casing volume (CV=LWC X C)=		0.163	2.81338	gallons
3 casing volume (3 X CV)=		3	8.44014	gallons

Total Volume of Water Purged Before Sampling 0.0 gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 0-w/in the screen	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: Sample time: 1516

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): 04/08/04
Field Personnel: JT
General Weather Conditions: Cloudy

Ambient Air Temperature: 21.1 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Jim Tan	4/9 1700		
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: George Souther Spartanburg
Site ID#: 08650 **Monitoring Well #** MW-20
Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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)	24.81			feet
Total Well Depth (TWD)	36			feet
Length of the water column (LWC=TWD-DGW)			11.19	feet
1 casing volume (CV=LWC X C)=		0.163	1.82397	gallons
3 casing volume (3 X CV)=		3	5.47191	gallons

Total Volume of Water Purged Before Sampling 0.0 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 0-w/in the screen	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: Sample time: 1522

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): 04/08/04
Field Personnel: JT
General Weather Conditions: Cloudy

Ambient Air Temperature: 21.1 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Jim Tan	4/9 1700		
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: George Souther Spartanburg
Site ID#: 08650 **Monitoring Well #** MW-21
Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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)	6.49			feet
Total Well Depth (TWD)	20			feet
Length of the water column (LWC=TWD-DGW)			13.51	feet
1 casing volume (CV=LWC X C)=		0.163	2.20213	gallons
3 casing volume (3 X CV)=		3	6.60639	gallons

Total Volume of Water Purged Before Sampling 0.0 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 0-w/in the screen	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: Sample time: 1551

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): 04/08/04

Field Personnel: JT

General Weather Conditions: Cloudy

Ambient Air Temperature: 21.1 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Jim Tan	4/9 1700		
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: George Souther Spartanburg

Site ID#: 08650 **Monitoring Well #** MW-22

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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)	9.24			feet
Total Well Depth (TWD)	20			feet
Length of the water column (LWC=TWD-DGW)			10.76	feet
1 casing volume (CV=LWC X C)=		0.163	1.75388	gallons
3 casing volume (3 X CV)=		3	5.26164	gallons

Total Volume of Water Purged Before Sampling 0.0 gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 0-w/in the screen	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: Sample time: 1548

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): 04/08/04
Field Personnel: JT
General Weather Conditions: Cloudy

Ambient Air Temperature: 21.1 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Jim Tan	4/9 1700		
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: George Souther Spartanburg
Site ID#: 08650 **Monitoring Well #** MW-23
Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 2 inch

Conversion Factor (C): $3.14 \times (D/2)^2$ 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)	15.79		feet
Total Well Depth (TWD)	23		feet
Length of the water column (LWC=TWD-DGW)		7.21	feet
1 casing volume (CV=LWC X C)=	0.163	1.17523	gallons
3 casing volume (3 X CV)=	3	3.52569	gallons

Total Volume of Water Purged Before Sampling 0.0 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 0-w/in the screen	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: Sample time: 1539

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): 04/08/04
Field Personnel: JT
General Weather Conditions: Cloudy

Ambient Air Temperature: 21.1 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Jim Tan	4/9 1700		
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: George Souther Spartanburg
Site ID#: 08650 **Monitoring Well #** MW-24
Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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)	8.30			feet
Total Well Depth (TWD)	20			feet
Length of the water column (LWC=TWD-DGW)			11.7	feet
1 casing volume (CV=LWC X C)=		0.163	1.9071	gallons
3 casing volume (3 X CV)=		3	5.7213	gallons

Total Volume of Water Purged Before Sampling 0.0 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 0-w/in the screen	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: Sample time: 1622

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): 04/08/04

Field Personnel: JT

General Weather Conditions: Cloudy

Ambient Air Temperature: 21.1 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
Jim Tan	4/9 1700		

Facility Name: George Souther Spartanburg

Site ID#: 08650 **Monitoring Well #** MW-25

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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)	7.97			feet
Total Well Depth (TWD)	20			feet
Length of the water column (LWC=TWD-DGW)			12.03	feet
1 casing volume (CV=LWC X C)=		0.163	1.96089	gallons
3 casing volume (3 X CV)=		3	5.88267	gallons

Total Volume of Water Purged Before Sampling 0.0 gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 0-w/in the screen	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: Sample time: 1637

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): 04/09/04
Field Personnel: JT
General Weather Conditions: Sunny

Ambient Air Temperature: 24.4 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Jim Tan	4/9 1700		
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: George Souther Spartanburg
Site ID#: 08650 **Monitoring Well #** PW-1
Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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)	13.46		feet
Total Well Depth (TWD)	47		feet
Length of the water column (LWC=TWD-DGW)		33.54	feet
1 casing volume (CV=LWC X C)=	0.163	5.46702	gallons
3 casing volume (3 X CV)=	3	16.40106	gallons

Total Volume of Water Purged Before Sampling 16.5 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 16.5-w/in the screen	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		1412	1424	1440				
pH (s.u.)		6.2	6.3	6.3				
Specific Conductivity (μmhos/cm)		0.20	0.23	0.25				
Water Temperature (°C)		20.7	19.0	21.3				
Dissolved Oxygen		9.7	9.7	11.4				
PID readings, if required								

Remarks: Sample time: 1440
No bolts

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): 04/09/04
Field Personnel: JT
General Weather Conditions: Sunny

Ambient Air Temperature: 24.4 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Jim Tan	4/9 1700		
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: George Souther Spartanburg
Site ID#: 08650 **Monitoring Well #** PW-2
Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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)	15.24			feet
Total Well Depth (TWD)	75			feet
Length of the water column (LWC=TWD-DGW)			59.76	feet
1 casing volume (CV=LWC X C)=		0.163	9.74088	gallons
3 casing volume (3 X CV)=		3	29.22264	gallons

Total Volume of Water Purged Before Sampling 30.0 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 30-w/in the screen	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		1414	1420	1427				
pH (s.u.)		6.2	6.4	6.6				
Specific Conductivity (μmhos/cm)		0.12	0.11	0.13				
Water Temperature (°C)		20.2	18.9	18.7				
Dissolved Oxygen		8.8	9.3	10.4				
PID readings, if required								

Remarks: Sample time: 1427

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): 04/09/04
Field Personnel: JT
General Weather Conditions: Sunny

Ambient Air Temperature: 24.4 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Jim Tan	4/9 1700		
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: George Souther Spartanburg
Site ID#: 08650 **Monitoring Well #** RW-1
Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 4 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)	13.30			feet
Total Well Depth (TWD)	30			feet
Length of the water column (LWC=TWD-DGW)			16.7	feet
1 casing volume (CV=LWC X C)=		0.652	10.8884	gallons
3 casing volume (3 X CV)=		3	32.6652	gallons

Total Volume of Water Purged Before Sampling 33.0 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 33-w/in the screen	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		1455	1502	1512				
pH (s.u.)		6.7	6.6	6.5				
Specific Conductivity (μmhos/cm)		0.37	0.46	0.53				
Water Temperature (°C)		21.3	20.9	23.4				
Dissolved Oxygen		11.7	10.7	11.2				
PID readings, if required								

Remarks: Sample time: 1512
No bolts

16171

BERKELEY COUNTY WATER AND SANITATION AUTHORITY

J. Marc Hehn
Director

2111 Red Bank Road
P.O. Box 1090
Goose Creek, South Carolina 29445

(843) 572-4400
(843) 761-8817

BERKELEY WATER AND SANITATION AUTHORITY
SEPTAGE TICKET

DATE: 4-27-04 TIME: 1400

COMPANY: DES

VEHICLE TAG NUMBER:

CAPACITY: 362.55 GALLONS TYPE:

COST:

NAME OF RESIDENCE / FACILITY OF SEPTAGE ORIGIN:

ADDRESS OF RESIDENCE / FACILITY OF SEPTAGE ORIGIN:

TELEPHONE NUMBER: 843 402 6808

REMOVAL DATE: REMOVAL TIME: 1430

I, _____ certify that the above information is true and correct to the best of
Driver's Signature

my knowledge. I also certify that the septage / scavenger waste as described above is free from any toxic or hazardous materials as defined by RCRA, CERCLA, and/or SARA.

AUTHORITY REPRESENTATIVE: Larry J. Shuler

LAB TEST PERFORMED:

COMMENTS: SCDOT Maint (00633) 40gal, Clinkscales (00414) 36.5gal Sanitation Dept. (12261) 33.5gal, Jack Hooks West (14508) 90 gal Jack Hooks East (8231) 60gal, Bargin City (09454) 34.5gal George Souther (08650) 114.75 gal, Nilson V&S (07442) 88.3gal

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 2

795591

Required Client Information: **Section A**

Company	SC DHEC
Address	2600 Bull St
	Columbia SC
Phone	
Fax	

Required Client Information: **Section B**

Report To:	D. Thoma
Copy To:	
Invoice To:	Finance
P.O.	463276
Project Name:	George Souther
Project Number:	08650 21517

Client Information (Check quote/contract):
Requested Due Date: *TAT:

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

To Be Completed by Pace Analytical and Client **Section C**

Quote Reference:
Project Manager:
Project #:
Profile #:

Section D **Required** Client Information:

Valid Matrix Codes

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

ITEM #	SAMPLE ID (One character per box. (A–Z, 0–9 / .–) Sample IDs MUST BE UNIQUE)	MATRIX CODE	DATE COLLECTED mm / dd / yy	TIME COLLECTED hh: mm a/p	# Containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis: BTEX	MTBE	Naphthalene	Pb	Remarks / Lab ID
1	MW-1	WT	4/8/04	1655	4			1	3					1	1	1	1	
2	MW-3	"	"	1649	4			1	3					1	1	1	1	
3	MW-4	"	"	1642	4			1	3					1	1	1	1	
4	MW-7	"	"	1714	4			1	3					1	1	1	1	
5	MW-9	"	"	1600	4			1	3					1	1	1	1	
6	MW-12	"	4/9/04	1338	4			1	3					1	1	1	1	
7	MW-13	"	4/8/04	1632	4			1	3					1	1	1	1	
8	MW-14	"	4/9/04	1553	4			1	3					1	1	1	1	
9	MW-15	"	"	1556	4			1	3					1	1	1	1	
10	MW-16	"	4/8/04	1533	4			1	3					1	1	1	1	
11	MW-17	"	4/9/04	1350	4			1	3					1	1	1	1	
12	MW-18	"	4/8/04	1510	4			1	3					1	1	1	1	

SITE LOCATION
☐ NC ☐ SC ☐ GA
☐ Other_____

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ Other_____

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
James Tan / J.A. Jones	4/9	1700			

SAMPLE CONDITION

Temp in °C	
Received on Ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

SAMPLE NOTES

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: James Tan

SIGNATURE of SAMPLER: [signature]

DATE Signed: (MM / DD / YY) 4/9/04

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 2

795592

To Be Completed by Pace Analytical and Client

Section A — Required Client Information:

Company	SC DHEC
Address	2600 Bull St
	Columbia SC
Phone	
Fax	

Section B — Required Client Information:

Report To:	D. Thoma
Copy To:	
Invoice To:	Finance
P.O.	463276
Project Name:	George Souther
Project Number:	08650 21517

Client Information (Check quote/contract):

Requested Due Date:	*TAT:

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

Section C — To Be Completed by Pace Analytical and Client

Quote Reference:	
Project Manager:	
Project #:	
Profile #:	

Section D — Required Client Information:

SAMPLE ID
One character per box.
(A–Z, 0–9 / .–)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

Requested Analysis: BTEX, MTBE, Naphthalene, Pb

ITEM #	SAMPLE ID	MATRIX CODE	DATE COLLECTED (mm / dd / yy)	TIME COLLECTED (hh:mm a/p)	# Containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	BTEX	MTBE	Naphthalene	Pb	Remarks / Lab ID
1	MW-19	WT	4/8/04	1516	4			1	3					/	/	/	/	
2	MW-20	"	"	1522	4			1	3					/	/	/	/	
3	MW-21	"	"	1551	4			1	3					/	/	/	/	
4	MW-22	"	"	1548	4			1	3					/	/	/	/	
5	MW-23	"	"	1539	4			1	3					/	/	/	/	
6	PW-1	"	4/9/04	1440	4			1	3					/	/	/	/	
7	PW-2	"	"	1427	4			1	3					/	/	/	/	
8	RW-1	"	"	1512	4			1	3					/	/	/	/	
9	MW-24	"	4/8/04	1622	4			1	3					/	/	/	/	
10	MW-25	"	"	1637	4			1	3					/	/	/	/	
11																		
12																		

RECEIVED
MAY 11 2004
UNDERGROUND STORAGE TANK PROGRAM

SITE LOCATION
☐ NC ☐ SC ☐ GA
☐ Other_____

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ Other_____

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
James Tan / J.A. Jones	4/9	1700			

SAMPLE CONDITION

Temp in °C	
Received on Ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

SAMPLE NOTES

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: James Tan

SIGNATURE of SAMPLER: [signature]

DATE Signed: (MM / DD / YY) 4/9/04

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9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

April 21, 2004

Ms. Debra Thoma
SCDHEC
UST Program
2600 Bull Street
Columbia, SC 29201

RE: Lab Project Number: 9264526
Client Project ID: George Souther 08650 21517 ; CA# 21518

Dear Ms. Thoma:

Enclosed are the analytical results for sample(s) received by the laboratory on April 10, 2004. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Sherri Stabel
Sherri.Stabel@pacelabs.com
Project Manager

Enclosures

RECEIVED
APR 23 2004
UNDERGROUND STORAGE TANK PROGRAM
DOCKETING # 04Tech

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
Phone: 704.875.9092
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Lab Project Number: 9264526
Client Project ID: George Souther 08650 21517

Lab Sample No: 924095482
Client Sample ID: MW-1

Project Sample Number: 9264526-001
Matrix: Water

Date Collected: 04/08/04 16:55
Date Received: 04/10/04 09:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.38	mg/l	0.0050	1.0	04/19/04 14:34	LBG	7439-92-1		
Date Digested	04/16/04				04/16/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	37000	ug/l	1200	250	04/15/04 21:37	DLK	71-43-2		
Ethylbenzene	5900	ug/l	1200	250	04/15/04 21:37	DLK	100-41-4		
Methyl-tert-butyl ether	12000	ug/l	1200	250	04/15/04 21:37	DLK	1634-04-4		
Naphthalene	ND	ug/l	1200	250	04/15/04 21:37	DLK	91-20-3		
Toluene	82000	ug/l	5000	1000	04/15/04 21:37	DLK	108-88-3		
m&p-Xylene	20000	ug/l	2500	250	04/15/04 21:37	DLK			
o-Xylene	9100	ug/l	1200	250	04/15/04 21:37	DLK	95-47-6		
Toluene-d8 (S)	97	%		1.0	04/15/04 21:37	DLK	2037-26-5		
4-Bromofluorobenzene (S)	97	%		1.0	04/15/04 21:37	DLK	460-00-4		
Dibromofluoromethane (S)	103	%		1.0	04/15/04 21:37	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	103	%		1.0	04/15/04 21:37	DLK	17060-07-0		

REPORT OF LABORATORY ANALYSIS

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NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030
FL NELAP E87648

Accredited in accordance with nelac

Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

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Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 9264526
Client Project ID: George Souther 08650 21517

Lab Sample No: 924095490
Client Sample ID: MW-3

Project Sample Number: 9264526-002
Matrix: Water

Date Collected: 04/08/04 16:49
Date Received: 04/10/04 09:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.11	mg/l	0.0050	1.0	04/19/04 14:38	LBG	7439-92-1		
Date Digested	04/16/04				04/16/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	34000	ug/l	2500	500	04/15/04 23:04	DLK	71-43-2		
Ethylbenzene	2700	ug/l	250	50.0	04/15/04 23:04	DLK	100-41-4		
Methyl-tert-butyl ether	230	J ug/l	250	50.0	04/15/04 23:04	DLK	1634-04-4		
Naphthalene	340	ug/l	250	50.0	04/15/04 23:04	DLK	91-20-3		
Toluene	45000	ug/l	2500	500	04/15/04 23:04	DLK	108-88-3		
m&p-Xylene	9700	ug/l	500	50.0	04/15/04 23:04	DLK			
o-Xylene	4600	ug/l	250	50.0	04/15/04 23:04	DLK	95-47-6		
Toluene-d8 (S)	98	%		1.0	04/15/04 23:04	DLK	2037-26-5		
4-Bromofluorobenzene (S)	99	%		1.0	04/15/04 23:04	DLK	460-00-4		
Dibromofluoromethane (S)	96	%		1.0	04/15/04 23:04	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	92	%		1.0	04/15/04 23:04	DLK	17060-07-0		

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Asheville Certification IDs
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NC Drinking Water 37706
SC 99006
FL NELAP E87627

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Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 9264526
Client Project ID: George Souther 08650 21517

Lab Sample No: 924095508
Client Sample ID: MW-4

Project Sample Number: 9264526-003
Matrix: Water

Date Collected: 04/08/04 16:42
Date Received: 04/10/04 09:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.0029	J mg/l	0.0050	1.0	04/19/04 14:42	LBG	7439-92-1		
Date Digested	04/16/04				04/16/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	ND	ug/l	5.0	1.0	04/16/04 15:28	DLK	71-43-2		
Ethylbenzene	ND	ug/l	5.0	1.0	04/16/04 15:28	DLK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	04/16/04 15:28	DLK	1634-04-4		
Naphthalene	ND	ug/l	5.0	1.0	04/16/04 15:28	DLK	91-20-3		
Toluene	ND	ug/l	5.0	1.0	04/16/04 15:28	DLK	108-88-3		
m&p-Xylene	ND	ug/l	10.	1.0	04/16/04 15:28	DLK			
o-Xylene	ND	ug/l	5.0	1.0	04/16/04 15:28	DLK	95-47-6		
Toluene-d8 (S)	99	%		1.0	04/16/04 15:28	DLK	2037-26-5		
4-Bromofluorobenzene (S)	95	%		1.0	04/16/04 15:28	DLK	460-00-4		
Dibromofluoromethane (S)	99	%		1.0	04/16/04 15:28	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	90	%		1.0	04/16/04 15:28	DLK	17060-07-0		

REPORT OF LABORATORY ANALYSIS
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Asheville Certification IDs
NC Wastewater 40
NC Drinking Water 37712
SC Environmental 99030
FL NELAP E87648

Accredited in accordance with nelac

Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

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Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

Lab Project Number: 9264526
Client Project ID: George Souther 08650 21517

Lab Sample No: 924095516
Client Sample ID: MW-7

Project Sample Number: 9264526-004
Matrix: Water

Date Collected: 04/08/04 17:14
Date Received: 04/10/04 09:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.089	mg/l	0.0050	1.0	04/19/04 14:47	LBG	7439-92-1		
Date Digested	04/16/04				04/16/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	40000	ug/l	2500	500	04/16/04 13:33	DLK	71-43-2		
Ethylbenzene	3300	ug/l	250	50.0	04/16/04 13:33	DLK	100-41-4		
Methyl-tert-butyl ether	150	J ug/l	250	50.0	04/16/04 13:33	DLK	1634-04-4		
Naphthalene	1500	ug/l	250	50.0	04/16/04 13:33	DLK	91-20-3		
Toluene	72000	ug/l	2500	500	04/16/04 13:33	DLK	108-88-3		
m&p-Xylene	11000	ug/l	500	50.0	04/16/04 13:33	DLK			
o-Xylene	5500	ug/l	250	50.0	04/16/04 13:33	DLK	95-47-6		
Toluene-d8 (S)	96	%		1.0	04/16/04 13:33	DLK	2037-26-5		
4-Bromofluorobenzene (S)	99	%		1.0	04/16/04 13:33	DLK	460-00-4		
Dibromofluoromethane (S)	99	%		1.0	04/16/04 13:33	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	90	%		1.0	04/16/04 13:33	DLK	17060-07-0		

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Lab Project Number: 9264526
Client Project ID: George Souther 08650 21517

Lab Sample No: 924095524
Client Sample ID: MW-9

Project Sample Number: 9264526-005
Matrix: Water

Date Collected: 04/08/04 16:00
Date Received: 04/10/04 09:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.012	mg/l	0.0050	1.0	04/19/04 14:51	LBG	7439-92-1		
Date Digested	04/16/04				04/16/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	28000	ug/l	1200	250	04/16/04 14:02	DLK	71-43-2		
Ethylbenzene	1300	ug/l	250	50.0	04/16/04 14:02	DLK	100-41-4		
Methyl-tert-butyl ether	210	J ug/l	250	50.0	04/16/04 14:02	DLK	1634-04-4		
Naphthalene	790	ug/l	250	50.0	04/16/04 14:02	DLK	91-20-3		
Toluene	24000	ug/l	1200	250	04/16/04 14:02	DLK	108-88-3		
m&p-Xylene	5300	ug/l	500	50.0	04/16/04 14:02	DLK			
o-Xylene	2600	ug/l	250	50.0	04/16/04 14:02	DLK	95-47-6		
Toluene-d8 (S)	96	%		1.0	04/16/04 14:02	DLK	2037-26-5		
4-Bromofluorobenzene (S)	97	%		1.0	04/16/04 14:02	DLK	460-00-4		
Dibromofluoromethane (S)	107	%		1.0	04/16/04 14:02	DLK	1868-53-7		
1.2-Dichloroethane-d4 (S)	98	%		1.0	04/16/04 14:02	DLK	17060-07-0		

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Lab Project Number: 9264526
Client Project ID: George Souther 08650 21517

Lab Sample No: 924095532
Client Sample ID: MW-12

Project Sample Number: 9264526-006
Matrix: Water

Date Collected: 04/08/04 13:38
Date Received: 04/10/04 09:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.033	mg/l	0.0050	1.0	04/19/04 14:56	LBG	7439-92-1		
Date Digested	04/16/04				04/16/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	ND	ug/l	5.0	1.0	04/16/04 15:57	DLK	71-43-2		
Ethylbenzene	ND	ug/l	5.0	1.0	04/16/04 15:57	DLK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	04/16/04 15:57	DLK	1634-04-4		
Naphthalene	ND	ug/l	5.0	1.0	04/16/04 15:57	DLK	91-20-3		
Toluene	ND	ug/l	5.0	1.0	04/16/04 15:57	DLK	108-88-3		
m&p-Xylene	ND	ug/l	10.	1.0	04/16/04 15:57	DLK			
o-Xylene	ND	ug/l	5.0	1.0	04/16/04 15:57	DLK	95-47-6		
Toluene-d8 (S)	99	%		1.0	04/16/04 15:57	DLK	2037-26-5		
4-Bromofluorobenzene (S)	93	%		1.0	04/16/04 15:57	DLK	460-00-4		
Dibromofluoromethane (S)	107	%		1.0	04/16/04 15:57	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	100	%		1.0	04/16/04 15:57	DLK	17060-07-0		

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Lab Project Number: 9264526
Client Project ID: George Souther 08650 21517

Lab Sample No: 924095540
Client Sample ID: MW-13

Project Sample Number: 9264526-007
Matrix: Water

Date Collected: 04/08/04 16:32
Date Received: 04/10/04 09:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.0015	J mg/l	0.0050	1.0	04/19/04 15:11	LBG	7439-92-1		
Date Digested	04/16/04				04/16/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	ND	ug/l	5.0	1.0	04/16/04 16:26	DLK	71-43-2		
Ethylbenzene	ND	ug/l	5.0	1.0	04/16/04 16:26	DLK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	04/16/04 16:26	DLK	1634-04-4		
Naphthalene	ND	ug/l	5.0	1.0	04/16/04 16:26	DLK	91-20-3		
Toluene	ND	ug/l	5.0	1.0	04/16/04 16:26	DLK	108-88-3		
m&p-Xylene	ND	ug/l	10.	1.0	04/16/04 16:26	DLK			
o-Xylene	ND	ug/l	5.0	1.0	04/16/04 16:26	DLK	95-47-6		
Toluene-d8 (S)	101	%		1.0	04/16/04 16:26	DLK	2037-26-5		
4-Bromofluorobenzene (S)	90	%		1.0	04/16/04 16:26	DLK	460-00-4		
Dibromofluoromethane (S)	102	%		1.0	04/16/04 16:26	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	93	%		1.0	04/16/04 16:26	DLK	17060-07-0		

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Lab Project Number: 9264526
Client Project ID: George Souther 08650 21517

Lab Sample No: 924095557 | Project Sample Number: 9264526-008 | Date Collected: 04/09/04 15:53
Client Sample ID: MW-14 | Matrix: Water | Date Received: 04/10/04 09:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.019	mg/l	0.0050	1.0	04/15/04 15:02	LBG	7439-92-1		
Date Digested	04/15/04				04/15/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	ND	ug/l	5.0	1.0	04/17/04 03:01	DLK	71-43-2		
Ethylbenzene	ND	ug/l	5.0	1.0	04/17/04 03:01	DLK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	04/17/04 03:01	DLK	1634-04-4		
Naphthalene	ND	ug/l	5.0	1.0	04/17/04 03:01	DLK	91-20-3		
Toluene	ND	ug/l	5.0	1.0	04/17/04 03:01	DLK	108-88-3		
m&p-Xylene	ND	ug/l	10.	1.0	04/17/04 03:01	DLK			
o-Xylene	ND	ug/l	5.0	1.0	04/17/04 03:01	DLK	95-47-6		
Toluene-d8 (S)	97	%		1.0	04/17/04 03:01	DLK	2037-26-5		
4-Bromofluorobenzene (S)	93	%		1.0	04/17/04 03:01	DLK	460-00-4		
Dibromofluoromethane (S)	107	%		1.0	04/17/04 03:01	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	97	%		1.0	04/17/04 03:01	DLK	17060-07-0		

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Lab Project Number: 9264526
Client Project ID: George Souther 08650 21517

Lab Sample No: 924095565
Client Sample ID: MW-15

Project Sample Number: 9264526-009
Matrix: Water

Date Collected: 04/09/04 15:56
Date Received: 04/10/04 09:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.050	mg/l	0.0050	1.0	04/15/04 15:06	LBG	7439-92-1		
Date Digested	04/15/04				04/15/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	260	ug/l	25.	5.0	04/17/04 00:36	DLK	71-43-2		
Ethylbenzene	ND	ug/l	25.	5.0	04/17/04 00:36	DLK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	25.	5.0	04/17/04 00:36	DLK	1634-04-4		
Naphthalene	39.	ug/l	25.	5.0	04/17/04 00:36	DLK	91-20-3		
Toluene	19.	J ug/l	25.	5.0	04/17/04 00:36	DLK	108-88-3		
m&p-Xylene	ND	ug/l	50.	5.0	04/17/04 00:36	DLK			
o-Xylene	31.	ug/l	25.	5.0	04/17/04 00:36	DLK	95-47-6		
Toluene-d8 (S)	96	%		1.0	04/17/04 00:36	DLK	2037-26-5		
4-Bromofluorobenzene (S)	95	%		1.0	04/17/04 00:36	DLK	460-00-4		
Dibromofluoromethane (S)	115	%		1.0	04/17/04 00:36	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	102	%		1.0	04/17/04 00:36	DLK	17060-07-0		

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Lab Project Number: 9264526
Client Project ID: George Souther 08650 21517

Lab Sample No: 924095573 | Project Sample Number: 9264526-010 | Date Collected: 04/08/04 15:33
Client Sample ID: MW-16 | Matrix: Water | Date Received: 04/10/04 09:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.0035	J mg/l	0.0050	1.0	04/19/04 15:15	LBG	7439-92-1		
Date Digested	04/16/04				04/16/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	ND	ug/l	5.0	1.0	04/16/04 16:55	DLK	71-43-2		
Ethylbenzene	ND	ug/l	5.0	1.0	04/16/04 16:55	DLK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	04/16/04 16:55	DLK	1634-04-4		
Naphthalene	ND	ug/l	5.0	1.0	04/16/04 16:55	DLK	91-20-3		
Toluene	ND	ug/l	5.0	1.0	04/16/04 16:55	DLK	108-88-3		
m&p-Xylene	5.4	J ug/l	10.	1.0	04/16/04 16:55	DLK			
o-Xylene	ND	ug/l	5.0	1.0	04/16/04 16:55	DLK	95-47-6		
Toluene-d8 (S)	101	%		1.0	04/16/04 16:55	DLK	2037-26-5		
4-Bromofluorobenzene (S)	93	%		1.0	04/16/04 16:55	DLK	460-00-4		
Dibromofluoromethane (S)	107	%		1.0	04/16/04 16:55	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	97	%		1.0	04/16/04 16:55	DLK	17060-07-0		

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Lab Project Number: 9264526
Client Project ID: George Souther 08650 21517

Lab Sample No: 924095581 | Project Sample Number: 9264526-011 | Date Collected: 04/09/04 13:50
Client Sample ID: MW-17 | Matrix: Water | Date Received: 04/10/04 09:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.11	mg/l	0.0050	1.0	04/15/04 15:11	LBG	7439-92-1		
Date Digested	04/15/04				04/15/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	ND	ug/l	5.0	1.0	04/17/04 03:30	DLK	71-43-2		
Ethylbenzene	ND	ug/l	5.0	1.0	04/17/04 03:30	DLK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	04/17/04 03:30	DLK	1634-04-4		
Naphthalene	ND	ug/l	5.0	1.0	04/17/04 03:30	DLK	91-20-3		
Toluene	ND	ug/l	5.0	1.0	04/17/04 03:30	DLK	108-88-3		
m&p-Xylene	ND	ug/l	10.	1.0	04/17/04 03:30	DLK			
o-Xylene	ND	ug/l	5.0	1.0	04/17/04 03:30	DLK	95-47-6		
Toluene-d8 (S)	97	%		1.0	04/17/04 03:30	DLK	2037-26-5		
4-Bromofluorobenzene (S)	96	%		1.0	04/17/04 03:30	DLK	460-00-4		
Dibromofluoromethane (S)	109	%		1.0	04/17/04 03:30	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	104	%		1.0	04/17/04 03:30	DLK	17060-07-0		

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Lab Project Number: 9264526
Client Project ID: George Souther 08650 21517

Lab Sample No: 924095599 | Project Sample Number: 9264526-012 | Date Collected: 04/08/04 15:10
Client Sample ID: MW-18 | Matrix: Water | Date Received: 04/10/04 09:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.0063	mg/l	0.0050	1.0	04/19/04 15:20	LBG	7439-92-1		
Date Digested	04/16/04				04/16/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	ND	ug/l	5.0	1.0	04/16/04 17:24	DLK	71-43-2		
Ethylbenzene	ND	ug/l	5.0	1.0	04/16/04 17:24	DLK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	04/16/04 17:24	DLK	1634-04-4		
Naphthalene	ND	ug/l	5.0	1.0	04/16/04 17:24	DLK	91-20-3		
Toluene	ND	ug/l	5.0	1.0	04/16/04 17:24	DLK	108-88-3		
m&p-Xylene	ND	ug/l	10.	1.0	04/16/04 17:24	DLK			
o-Xylene	ND	ug/l	5.0	1.0	04/16/04 17:24	DLK	95-47-6		
Toluene-d8 (S)	100	%		1.0	04/16/04 17:24	DLK	2037-26-5		
4-Bromofluorobenzene (S)	93	%		1.0	04/16/04 17:24	DLK	460-00-4		
Dibromofluoromethane (S)	100	%		1.0	04/16/04 17:24	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	92	%		1.0	04/16/04 17:24	DLK	17060-07-0		

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Lab Project Number: 9264526
Client Project ID: George Souther 08650 21517

Lab Sample No: 924095607 | Project Sample Number: 9264526-013 | Date Collected: 04/08/04 15:16
Client Sample ID: MW-19 | Matrix: Water | Date Received: 04/10/04 09:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.0026	J mg/l	0.0050	1.0	04/19/04 15:24	LBG	7439-92-1		
Date Digested	04/16/04				04/16/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	23.	ug/l	5.0	1.0	04/17/04 16:59	DLK	71-43-2		
Ethylbenzene	12.	ug/l	5.0	1.0	04/17/04 16:59	DLK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	04/17/04 16:59	DLK	1634-04-4		
Naphthalene	ND	ug/l	5.0	1.0	04/17/04 16:59	DLK	91-20-3		
Toluene	67.	ug/l	5.0	1.0	04/17/04 16:59	DLK	108-88-3		
m&p-Xylene	150	ug/l	10.	1.0	04/17/04 16:59	DLK			
o-Xylene	76.	ug/l	5.0	1.0	04/17/04 16:59	DLK	95-47-6		
Toluene-d8 (S)	104	%		1.0	04/17/04 16:59	DLK	2037-26-5		
4-Bromofluorobenzene (S)	101	%		1.0	04/17/04 16:59	DLK	460-00-4		
Dibromofluoromethane (S)	118	%		1.0	04/17/04 16:59	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	113	%		1.0	04/17/04 16:59	DLK	17060-07-0		

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Lab Project Number: 9264526
Client Project ID: George Souther 08650 21517

Lab Sample No: 924095615 | Project Sample Number: 9264526-014 | Date Collected: 04/08/04 15:22
Client Sample ID: MW-20 | Matrix: Water | Date Received: 04/10/04 09:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.0023 J	mg/l	0.0050	1.0	04/19/04 15:28	LBG	7439-92-1		
Date Digested	04/16/04				04/16/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	2.1 J	ug/l	5.0	1.0	04/16/04 17:52	DLK	71-43-2		
Ethylbenzene	ND	ug/l	5.0	1.0	04/16/04 17:52	DLK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	04/16/04 17:52	DLK	1634-04-4		
Naphthalene	ND	ug/l	5.0	1.0	04/16/04 17:52	DLK	91-20-3		
Toluene	ND	ug/l	5.0	1.0	04/16/04 17:52	DLK	108-88-3		
m&p-Xylene	ND	ug/l	10.	1.0	04/16/04 17:52	DLK			
o-Xylene	ND	ug/l	5.0	1.0	04/16/04 17:52	DLK	95-47-6		
Toluene-d8 (S)	98	%		1.0	04/16/04 17:52	DLK	2037-26-5		
4-Bromofluorobenzene (S)	97	%		1.0	04/16/04 17:52	DLK	460-00-4		
Dibromofluoromethane (S)	110	%		1.0	04/16/04 17:52	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	97	%		1.0	04/16/04 17:52	DLK	17060-07-0		

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Lab Project Number: 9264526
Client Project ID: George Souther 08650 21517

Lab Sample No: 924095623 | Project Sample Number: 9264526-015 | Date Collected: 04/08/04 15:51
Client Sample ID: MW-21 | Matrix: Water | Date Received: 04/10/04 09:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.0010 J	mg/l	0.0050	1.0	04/19/04 15:33	LBG	7439-92-1		
Date Digested	04/16/04				04/16/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	ND	ug/l	5.0	1.0	04/16/04 22:41	DLK	71-43-2		
Ethylbenzene	ND	ug/l	5.0	1.0	04/16/04 22:41	DLK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	04/16/04 22:41	DLK	1634-04-4		
Naphthalene	ND	ug/l	5.0	1.0	04/16/04 22:41	DLK	91-20-3		
Toluene	ND	ug/l	5.0	1.0	04/16/04 22:41	DLK	108-88-3		
m&p-Xylene	ND	ug/l	10.	1.0	04/16/04 22:41	DLK			
o-Xylene	ND	ug/l	5.0	1.0	04/16/04 22:41	DLK	95-47-6		
Toluene-d8 (S)	93	%		1.0	04/16/04 22:41	DLK	2037-26-5		
4-Bromofluorobenzene (S)	95	%		1.0	04/16/04 22:41	DLK	460-00-4		
Dibromofluoromethane (S)	110	%		1.0	04/16/04 22:41	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	105	%		1.0	04/16/04 22:41	DLK	17060-07-0		

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Lab Project Number: 9264526
Client Project ID: George Souther 08650 21517

Lab Sample No: 924095631 | Project Sample Number: 9264526-016 | Date Collected: 04/08/04 15:48
Client Sample ID: MW-22 | Matrix: Water | Date Received: 04/10/04 09:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.0017 J	mg/l	0.0050	1.0	04/19/04 15:37	LBG	7439-92-1		
Date Digested	04/16/04				04/16/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	ND	ug/l	5.0	1.0	04/17/04 02:03	DLK	71-43-2		
Ethylbenzene	ND	ug/l	5.0	1.0	04/17/04 02:03	DLK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	04/17/04 02:03	DLK	1634-04-4		
Naphthalene	ND	ug/l	5.0	1.0	04/17/04 02:03	DLK	91-20-3		
Toluene	ND	ug/l	5.0	1.0	04/17/04 02:03	DLK	108-88-3		
m&p-Xylene	ND	ug/l	10.	1.0	04/17/04 02:03	DLK			
o-Xylene	ND	ug/l	5.0	1.0	04/17/04 02:03	DLK	95-47-6		
Toluene-d8 (S)	97	%		1.0	04/17/04 02:03	DLK	2037-26-5		
4-Bromofluorobenzene (S)	96	%		1.0	04/17/04 02:03	DLK	460-00-4		
Dibromofluoromethane (S)	113	%		1.0	04/17/04 02:03	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	104	%		1.0	04/17/04 02:03	DLK	17060-07-0		

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Lab Project Number: 9264526
Client Project ID: George Souther 08650 21517

Lab Sample No: 924095649 | Project Sample Number: 9264526-017 | Date Collected: 04/08/04 15:39
Client Sample ID: MW-23 | Matrix: Water | Date Received: 04/10/04 09:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.17	mg/l	0.0050	1.0	04/19/04 15:42	LBG	7439-92-1		
Date Digested	04/16/04				04/16/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	ND	ug/l	5.0	1.0	04/17/04 01:34	DLK	71-43-2		
Ethylbenzene	ND	ug/l	5.0	1.0	04/17/04 01:34	DLK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	04/17/04 01:34	DLK	1634-04-4		
Naphthalene	ND	ug/l	5.0	1.0	04/17/04 01:34	DLK	91-20-3		
Toluene	ND	ug/l	5.0	1.0	04/17/04 01:34	DLK	108-88-3		
m&p-Xylene	ND	ug/l	10.	1.0	04/17/04 01:34	DLK			
o-Xylene	ND	ug/l	5.0	1.0	04/17/04 01:34	DLK	95-47-6		
Toluene-d8 (S)	101	%		1.0	04/17/04 01:34	DLK	2037-26-5		
4-Bromofluorobenzene (S)	97	%		1.0	04/17/04 01:34	DLK	460-00-4		
Dibromofluoromethane (S)	101	%		1.0	04/17/04 01:34	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	95	%		1.0	04/17/04 01:34	DLK	17060-07-0		

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Lab Project Number: 9264526
Client Project ID: George Souther 08650 21517

Lab Sample No: 924095656 | Project Sample Number: 9264526-018 | Date Collected: 04/09/04 14:40
Client Sample ID: PW-1 | Matrix: Water | Date Received: 04/10/04 09:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.012	mg/l	0.0050	1.0	04/15/04 15:15	LBG	7439-92-1		
Date Digested	04/15/04				04/15/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	6200	ug/l	250	50.0	04/17/04 03:58	DLK	71-43-2		
Ethylbenzene	35.	J ug/l	100	20.0	04/17/04 03:58	DLK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	100	20.0	04/17/04 03:58	DLK	1634-04-4		
Naphthalene	220	ug/l	100	20.0	04/17/04 03:58	DLK	91-20-3		
Toluene	180	ug/l	100	20.0	04/17/04 03:58	DLK	108-88-3		
m&p-Xylene	490	ug/l	200	20.0	04/17/04 03:58	DLK			
o-Xylene	960	ug/l	100	20.0	04/17/04 03:58	DLK	95-47-6		
Toluene-d8 (S)	93	%		1.0	04/17/04 03:58	DLK	2037-26-5		
4-Bromofluorobenzene (S)	96	%		1.0	04/17/04 03:58	DLK	460-00-4		
Dibromofluoromethane (S)	107	%		1.0	04/17/04 03:58	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	102	%		1.0	04/17/04 03:58	DLK	17060-07-0		

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Lab Project Number: 9264526
Client Project ID: George Souther 08650 21517

Lab Sample No: 924095664 | Project Sample Number: 9264526-019 | Date Collected: 04/09/04 14:27
Client Sample ID: PW-2 | Matrix: Water | Date Received: 04/10/04 09:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.0075	mg/l	0.0050	1.0	04/15/04 15:20	LBG	7439-92-1		
Date Digested	04/15/04				04/15/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	1400	ug/l	250	50.0	04/17/04 04:27	DLK	71-43-2		
Ethylbenzene	1.4 J	ug/l	5.0	1.0	04/17/04 04:27	DLK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	04/17/04 04:27	DLK	1634-04-4		
Naphthalene	50.	ug/l	5.0	1.0	04/17/04 04:27	DLK	91-20-3		
Toluene	2.8 J	ug/l	5.0	1.0	04/17/04 04:27	DLK	108-88-3		
m&p-Xylene	150	ug/l	10.	1.0	04/17/04 04:27	DLK			
o-Xylene	310	ug/l	250	50.0	04/17/04 04:27	DLK	95-47-6		
Toluene-d8 (S)	100	%		1.0	04/17/04 04:27	DLK	2037-26-5		
4-Bromofluorobenzene (S)	96	%		1.0	04/17/04 04:27	DLK	460-00-4		
Dibromofluoromethane (S)	102	%		1.0	04/17/04 04:27	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	92	%		1.0	04/17/04 04:27	DLK	17060-07-0		

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Lab Project Number: 9264526
Client Project ID: George Souther 08650 21517

Lab Sample No: 924095672 | Project Sample Number: 9264526-020 | Date Collected: 04/09/04 15:12
Client Sample ID: RW-1 | Matrix: Water | Date Received: 04/10/04 09:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.022	mg/l	0.0050	1.0	04/15/04 15:24	LBG	7439-92-1		
Date Digested	04/15/04				04/15/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	2400	ug/l	500	100	04/16/04 23:10	DLK	71-43-2		
Ethylbenzene	500	ug/l	500	100	04/16/04 23:10	DLK	100-41-4		
Methyl-tert-butyl ether	300	J ug/l	500	100	04/16/04 23:10	DLK	1634-04-4		
Naphthalene	ND	ug/l	500	100	04/16/04 23:10	DLK	91-20-3		
Toluene	4600	ug/l	500	100	04/16/04 23:10	DLK	108-88-3		
m&p-Xylene	2200	ug/l	1000	100	04/16/04 23:10	DLK			
o-Xylene	920	ug/l	500	100	04/16/04 23:10	DLK	95-47-6		
Toluene-d8 (S)	100	%		1.0	04/16/04 23:10	DLK	2037-26-5		
4-Bromofluorobenzene (S)	97	%		1.0	04/16/04 23:10	DLK	460-00-4		
Dibromofluoromethane (S)	102	%		1.0	04/16/04 23:10	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	88	%		1.0	04/16/04 23:10	DLK	17060-07-0		

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Lab Project Number: 9264526
Client Project ID: George Souther 08650 21517

Lab Sample No: 924095680 | Project Sample Number: 9264526-021 | Date Collected: 04/08/04 16:22
Client Sample ID: MW-24 | Matrix: Water | Date Received: 04/10/04 09:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.0014 J	mg/l	0.0050	1.0	04/19/04 15:46	LBG	7439-92-1		
Date Digested	04/16/04				04/16/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	ND	ug/l	5.0	1.0	04/17/04 02:32	DLK	71-43-2		
Ethylbenzene	ND	ug/l	5.0	1.0	04/17/04 02:32	DLK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	04/17/04 02:32	DLK	1634-04-4		
Naphthalene	ND	ug/l	5.0	1.0	04/17/04 02:32	DLK	91-20-3		
Toluene	ND	ug/l	5.0	1.0	04/17/04 02:32	DLK	108-88-3		
m&p-Xylene	ND	ug/l	10.	1.0	04/17/04 02:32	DLK			
o-Xylene	ND	ug/l	5.0	1.0	04/17/04 02:32	DLK	95-47-6		
Toluene-d8 (S)	97	%		1.0	04/17/04 02:32	DLK	2037-26-5		
4-Bromofluorobenzene (S)	92	%		1.0	04/17/04 02:32	DLK	460-00-4		
Dibromofluoromethane (S)	109	%		1.0	04/17/04 02:32	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	100	%		1.0	04/17/04 02:32	DLK	17060-07-0		

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Lab Project Number: 9264526
Client Project ID: George Souther 08650 21517

Lab Sample No: 924095698 | Project Sample Number: 9264526-022 | Date Collected: 04/08/04 16:37
Client Sample ID: MW-25 | Matrix: Water | Date Received: 04/10/04 09:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.012	mg/l	0.0050	1.0	04/19/04 15:50	LBG	7439-92-1		
Date Digested	04/16/04				04/16/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	ND	ug/l	5.0	1.0	04/17/04 01:05	DLK	71-43-2		
Ethylbenzene	ND	ug/l	5.0	1.0	04/17/04 01:05	DLK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	04/17/04 01:05	DLK	1634-04-4		
Naphthalene	ND	ug/l	5.0	1.0	04/17/04 01:05	DLK	91-20-3		
Toluene	ND	ug/l	5.0	1.0	04/17/04 01:05	DLK	108-88-3		
m&p-Xylene	ND	ug/l	10.	1.0	04/17/04 01:05	DLK			
o-Xylene	ND	ug/l	5.0	1.0	04/17/04 01:05	DLK	95-47-6		
Toluene-d8 (S)	97	%		1.0	04/17/04 01:05	DLK	2037-26-5		
4-Bromofluorobenzene (S)	94	%		1.0	04/17/04 01:05	DLK	460-00-4		
Dibromofluoromethane (S)	119	%		1.0	04/17/04 01:05	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	108	%		1.0	04/17/04 01:05	DLK	17060-07-0		

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Lab Project Number: 9264526
Client Project ID: George Souther 08650 21517

PARAMETER FOOTNOTES

Dilution factor shown represents the factor applied to the reported result and reporting limit due to changes in sample preparation, dilution of the extract, or moisture content

Inorganic Wet Chemistry and Metals Analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Charlotte laboratory unless otherwise footnoted.

Method 9071B modified to use ASE.

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
(S)	Surrogate

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QUALITY CONTROL DATA

Lab Project Number: 9264526
Client Project ID: George Souther 08650 21517

QC Batch: 97152 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: GC/MS VOCs by 8260
Associated Lab Samples: 924095482 924095490

METHOD BLANK: 924111255
Associated Lab Samples: 924095482 924095490

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Benzene	ug/l	ND	5.0	
Ethylbenzene	ug/l	ND	5.0	
Methyl-tert-butyl ether	ug/l	ND	5.0	
Naphthalene	ug/l	ND	5.0	
Toluene	ug/l	ND	5.0	
m&p-Xylene	ug/l	ND	10.	
o-Xylene	ug/l	ND	5.0	
Toluene-d8 (S)	%	100		
4-Bromofluorobenzene (S)	%	96		
Dibromofluoromethane (S)	%	99		
1,2-Dichloroethane-d4 (S)	%	88		

LABORATORY CONTROL SAMPLE: 924111263

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Benzene	ug/l	50.00	49.97	100	
Ethylbenzene	ug/l	50.00	46.35	93	
Methyl-tert-butyl ether	ug/l	50.00	49.24	98	
Naphthalene	ug/l	50.00	59.97	120	
Toluene	ug/l	50.00	49.06	98	
m&p-Xylene	ug/l	100.00	91.29	91	
o-Xylene	ug/l	50.00	43.21	86	
Toluene-d8 (S)				98	
4-Bromofluorobenzene (S)				97	
Dibromofluoromethane (S)				98	
1,2-Dichloroethane-d4 (S)				95	

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NC Drinking Water 37712
SC Environmental 99030
FL NELAP E87648

Accredited in accordance with nelac

Charlotte Certification IDs
NC Wastewater 12
NC Drinking Water 37706
SC 99006
FL NELAP E87627

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www.pacelabs.com

Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville, NC 28078
Phone: 704.875.9092
Fax: 704.875.9091

QUALITY CONTROL DATA

Lab Project Number: 9264526
Client Project ID: George Souther 08650 21517

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 924111396 924111404

Parameter	Units	924091820 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Benzene	ug/l	0	50.00	48.38	50.70	97	101	5	
Toluene	ug/l	0	50.00	47.50	50.62	95	101	6	
Toluene-d8 (S)						97	98		
4-Bromofluorobenzene (S)						97	98		
Dibromofluoromethane (S)						94	96		
1,2-Dichloroethane-d4 (S)						90	94		

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QUALITY CONTROL DATA

Lab Project Number: 9264526
Client Project ID: George Souther 08650 21517

QC Batch: 97253 — Analysis Method: EPA 8260
QC Batch Method: EPA 8260 — Analysis Description: GC/MS VOCs by 8260
Associated Lab Samples: 924095508 924095516 924095524 924095532 924095540 924095573 924095599 924095607 924095615

METHOD BLANK: 924115926
Associated Lab Samples: 924095508 924095516 924095524 924095532 924095540 924095573 924095599 924095607 924095615

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Benzene	ug/l	ND	5.0	
Ethylbenzene	ug/l	ND	5.0	
Methyl-tert-butyl ether	ug/l	ND	5.0	
Naphthalene	ug/l	ND	5.0	
Toluene	ug/l	ND	5.0	
m&p-Xylene	ug/l	ND	10.	
o-Xylene	ug/l	ND	5.0	
Toluene-d8 (S)	%	100		
4-Bromofluorobenzene (S)	%	96		
Dibromofluoromethane (S)	%	104		
1,2-Dichloroethane-d4 (S)	%	94		

LABORATORY CONTROL SAMPLE: 924115934

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Benzene	ug/l	50.00	42.15	84	
Ethylbenzene	ug/l	50.00	44.20	88	
Methyl-tert-butyl ether	ug/l	50.00	36.81	74	
Naphthalene	ug/l	50.00	34.48	69	
Toluene	ug/l	50.00	44.57	89	
m&p-Xylene	ug/l	100.00	90.00	90	
o-Xylene	ug/l	50.00	46.04	92	
Toluene-d8 (S)				100	
4-Bromofluorobenzene (S)				99	
Dibromofluoromethane (S)				92	
1,2-Dichloroethane-d4 (S)				88	

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QUALITY CONTROL DATA

Lab Project Number: 9264526
Client Project ID: George Souther 08650 21517

MATRIX SPIKE: 924115942

Parameter	Units	924095615 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Benzene	ug/l	2.052	50.00	48.25	92	
Toluene	ug/l	0	50.00	46.74	94	
Toluene-d8 (S)					99	
4-Bromofluorobenzene (S)					101	
Dibromofluoromethane (S)					99	
1,2-Dichloroethane-d4 (S)					96	

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QUALITY CONTROL DATA

Lab Project Number: 9264526
Client Project ID: George Souther 08650 21517

QC Batch: 97255 — Analysis Method: EPA 8260
QC Batch Method: EPA 8260 — Analysis Description: GC/MS VOCs by 8260
Associated Lab Samples: 924095557 924095565 924095581 924095623 924095631 924095649 924095656 924095664 924095672 924095680 924095698

METHOD BLANK: 924115959
Associated Lab Samples: 924095557 924095565 924095581 924095623 924095631 924095649 924095656 924095664 924095672 924095680 924095698

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Benzene	ug/l	ND	5.0	
Ethylbenzene	ug/l	ND	5.0	
Methyl-tert-butyl ether	ug/l	ND	5.0	
Naphthalene	ug/l	ND	5.0	
Toluene	ug/l	ND	5.0	
m&p-Xylene	ug/l	ND	10.	
o-Xylene	ug/l	ND	5.0	
Toluene-d8 (S)	%	100		
4-Bromofluorobenzene (S)	%	96		
Dibromofluoromethane (S)	%	106		
1,2-Dichloroethane-d4 (S)	%	100		

LABORATORY CONTROL SAMPLE: 924115967

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Benzene	ug/l	50.00	45.64	91	
Ethylbenzene	ug/l	50.00	43.87	88	
Methyl-tert-butyl ether	ug/l	50.00	40.90	82	
Naphthalene	ug/l	50.00	72.06	144	1
Toluene	ug/l	50.00	44.45	89	
m&p-Xylene	ug/l	100.00	89.72	90	
o-Xylene	ug/l	50.00	43.51	87	
Toluene-d8 (S)				95	
4-Bromofluorobenzene (S)				92	
Dibromofluoromethane (S)				99	
1,2-Dichloroethane-d4 (S)				88	

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QUALITY CONTROL DATA

Lab Project Number: 9264526
Client Project ID: George Souther 08650 21517

MATRIX SPIKE: 924115975

Parameter	Units	924083868 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Benzene	ug/l	2.685	50.00	46.11	87	
Toluene	ug/l	0	50.00	45.29	91	
Toluene-d8 (S)					100	
4-Bromofluorobenzene (S)					95	
Dibromofluoromethane (S)					102	
1,2-Dichloroethane-d4 (S)					110	

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QUALITY CONTROL DATA

Lab Project Number: 9264526
Client Project ID: George Souther 08650 21517

QC Batch: 96873 — Analysis Method: EPA 6010
QC Batch Method: EPA 3010 — Analysis Description: Metals by Trace ICP
Associated Lab Samples: 924095482 924095490 924095508 924095516 924095524 924095532 924095540 924095573 924095599 924095607 924095615 924095623 924095631 924095649 924095680 924095698

METHOD BLANK: 924096811
Associated Lab Samples: 924095482 924095490 924095508 924095516 924095524 924095532 924095540 924095573 924095599 924095607 924095615 924095623 924095631 924095649 924095680 924095698

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Lead	mg/l	0.0026	0.0050	

LABORATORY CONTROL SAMPLE: 924096829

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Lead	mg/l	0.5000	0.5040	101	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 924096837 924096845

Parameter	Units	924094204 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Lead	mg/l	0.00240	0.5000	0.4000	0.5050	80	100	23	2

SAMPLE DUPLICATE: 924096852

Parameter	Units	924094212 Result	DUP Result	RPD	Footnotes
Lead	mg/l	0.00980	0.00940	4	

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QUALITY CONTROL DATA

Lab Project Number: 9264526
Client Project ID: George Souther 08650 21517

QC Batch: 96874 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: Metals by Trace ICP
Associated Lab Samples: 924095557 924095565 924095581 924095656 924095664 924095672

METHOD BLANK: 924096860
Associated Lab Samples: 924095557 924095565 924095581 924095656 924095664 924095672

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Lead	mg/l	0.0017	0.0050	

LABORATORY CONTROL SAMPLE: 924096878

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Lead	mg/l	0.5000	0.5050	101	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 924096886 924096894

Parameter	Units	924095557 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Lead	mg/l	0.01920	0.5000	0.5230	0.5250	101	101	0	

SAMPLE DUPLICATE: 924096902

Parameter	Units	924095565 Result	DUP Result	RPD	Footnotes
Lead	mg/l	0.05000	0.05400	9	

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Fax: 704.875.9091

Lab Project Number: 9264526
Client Project ID: George Souther 08650 21517

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
(S)	Surrogate
[1]	The surrogate and/or spike recovery was outside acceptance limits.
[2]	The calculated RPD was outside QC acceptance limits.

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Charlotte Certification IDs
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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 2

795591

Required Client Information: Section A

Company: SC DHEC
Address: 2600 Bull St
Columbia SC
Phone:
Fax:

Required Client Information: Section B

Report To: D. Thoma
Copy To:
Invoice To: Finance
P.O. 463276
Project Name: George Souther
Project Number: 08650 21517

Client Information (Check quote/contract):
Requested Due Date:
*TAT:

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

To Be Completed by Pace Analytical and Client: Section C

Quote Reference:
Project Manager:
Project #: 9264526
Profile #: 1700 8

Section D Required Client Information:

Valid Matrix Codes

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

ITEM #	SAMPLE ID (One character per box. (A–Z, 0–9 / .–) Sample IDs MUST BE UNIQUE)	MATRIX CODE	DATE COLLECTED mm / dd / yy	TIME COLLECTED hh: mm a/p	# Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	BTEX	MTBE	Naphthalene	Pb	Remarks / Lab ID
1	MW-1	WT	4/8/04	1655	4			1	3					1	1	1	1	924095482
2	MW-3	"	"	1649	4			1	3					1	1	1	1	924095490
3	MW-4	"	"	1642	4			1	3					1	1	1	1	924095490
4	MW-7	"	"	1714	4			1	3					1	1	1	1	924095516
5	MW-9	"	"	1600	4			1	3					1	1	1	1	924095524
6	MW-12	"	4/9/04	1338	4			1	3					1	1	1	1	924095532
7	MW-13	"	4/8/04	1632	4			1	3					1	1	1	1	924095540
8	MW-14	"	4/9/04	1553	4			1	3					1	1	1	1	924095557
9	MW-15	"	"	1556	4			1	3					1	1	1	1	924095565
10	MW-16	"	4/8/04	1533	4			1	3					1	1	1	1	924095573
11	MW-17	"	4/9/04	1350	4			1	3					1	1	1	1	924095581
12	MW-18	"	4/8/04	1510	4			1	3					1	1	1	1	924095599

SITE LOCATION: ☐ NC ☐ SC ☐ GA ☐ Other

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ Other

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
James Tan / J.A. Jones	4/9	1700	[illegible]	4/10	0830

SAMPLE CONDITION

Temp in °C	1.8
Received on Ice	(Y/N)
Sealed Cooler	(Y/N)
Samples Intact	(Y/N)

SAMPLE NOTES

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: James Tan
SIGNATURE of SAMPLER: [signature]
DATE Signed: (MM / DD / YY) 4/9/04

SEE REVERSE SIDE FOR INSTRUCTIONS

Form COC01 Rev. 0903

Instructions for completing Chain of Custody (COC)

1. Complete all Client Information at top of sheet: name, address, phone, contact (person to whom report will be sent and contact can be made if questions arise), billing information if different from client, PO#, Project Name and/or Project Number as it will appear on the report.

2. Quote Reference, Project Manager, Project No. and Profile No. will be completed by Pace.

3. A separate COC must be filled out for each day of sample collection.

4. Sampler should print their name in the space provided and sign their name followed by the date of the sampling event.

5. Complete Sample Description as it will appear on the laboratory report; include time of sampling, sample matrix, no. of containers and preservative used.

6. Analysis Requested: Complete analysis on the lines provided and place a check in the column for the samples requiring the analysis. It may be necessary to use the space provided for additional comments or include attachments for extended lists of parameters.

7. Submission of samples to laboratory: Indicate Item Number of those samples being transferred; sign relinquished by, and include your affiliation.

*** IMPORTANT NOTE:**

Standard Turnaround Time is 2 weeks. If this does not satisfy your requirements, arrangements must be made prior to samples being submitted to the laboratory. Contact your project manager.

Special Project Requirements such as Low Level Detection Limits or level of QC reported must be indicated on the chain of custody. (Use Additional Comments Section.)

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 2 of 2

795592

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Address: 2600 Bull St
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Phone:
Fax:

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Report To: D. Thoma
Copy To:
Invoice To: Finance
P.O. 463276
Project Name: George Souther
Project Number: 08650 21517

Client Information (Check quote/contract):
Requested Due Date:
*TAT:

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

To Be Completed by Pace Analytical and Client: Section C

Quote Reference:
Project Manager:
Project #: 9264526
Profile #:

Section D Required Client Information:

SAMPLE ID
One character per box. (A–Z, 0–9 / .–)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

ITEM #	SAMPLE ID	MATRIX CODE	DATE COLLECTED mm / dd / yy	TIME COLLECTED hh:mm a/p	# Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	BTEX	MTBE	Naphthalene	Pb	Remarks / Lab ID
1	MW-19	WT	4/8/04	1516	4			1	3					/	/	/	/	924095607
2	MW-20	"	"	1522	4			1	3					/	/	/	/	924095615
3	MW-21	"	"	1551	4			1	3					/	/	/	/	924095623
4	MW-22	"	"	1548	4			1	3					/	/	/	/	924095631
5	MW-23	"	"	1539	4			1	3					/	/	/	/	924095649
6	PW-1	"	4/9/04	1440	4			1	3					/	/	/	/	924095656
7	PW-2	"	"	1427	4			1	3					/	/	/	/	924095664
8	RW-1	"	"	1512	4			1	3					/	/	/	/	924095672
9	MW-24	"	4/8/04	1622	4			1	3					/	/	/	/	924095680
10	MW-25	"	"	1637	4			1	3					/	/	/	/	924095698
11																		
12																		

SITE LOCATION: ☐ NC ☐ SC ☐ GA ☐ Other_____

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ Other_____

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
James Tan / J.A. Jones	4/9	1700	[illegible]	4/10	use

SAMPLE CONDITION

Temp in °C	1.5
Received on Ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

SAMPLE NOTES

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: James Tan
SIGNATURE of SAMPLER:
DATE Signed: (MM / DD / YY) 4/9/04

SEE REVERSE SIDE FOR INSTRUCTIONS

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South Carolina Department of Health and Environmental Control

UNDERGROUND STORAGE TANK PROGRAM
BUREAU OF LAND AND WASTE MANAGEMENT
2600 Bull Street, Columbia, South Carolina 29201
Telephone: 803-896-6240

MEMORANDUM

TO: JA Jones Environmental Services

FROM: Karen Doran

RE: **NOTICE TO PROCEED**

Facility Name: George Souther

Permit Number: 08650

County: Spartanburg

Work To Be Completed: Sample monitoring wells MW-1 through MW-25, PW-1, PW-2, and RW-1 for BTEX, Naph, MtBE, and Lead.

PACE CA# 20615

JA Jones CA# 20614

UST PROGRAM
DOCKETING # D5 Tech

15955

BERKELEY COUNTY WATER AND SANITATION AUTHORITY

J. Marc Hehn
Director

2111 Red Bank Road
P.O. Box 1090
Goose Creek, South Carolina 29445

(843) 572-4400
(843) 761-8817

BERKELEY WATER AND SANITATION AUTHORITY
SEPTAGE TICKET

DATE: 1/30/04 TIME: 11:10

COMPANY: JA JONES ENVIRONMENTAL SERVICES

VEHICLE TAG NUMBER: A92 VSS

CAPACITY: 359,55 GALLONS TYPE: PURGE WATER

COST: _____

NAME OF RESIDENCE / FACILITY OF SEPTAGE ORIGIN: _____

ADDRESS OF RESIDENCE / FACILITY OF SEPTAGE ORIGIN: _____

TELEPHONE NUMBER: (843) 740 2780

REMOVAL DATE: _____ REMOVAL TIME: _____

I, _____ certify that the above information is true and correct to the best of
Driver's Signature

my knowledge. I also certify that the septage / scavenger waste as described above is free from any toxic or hazardous materials as defined by RCRA, CERCLA, and/or SARA.

AUTHORITY REPRESENTATIVE: Larry J. Shuler

LAB TEST PERFORMED: _____

COMMENTS: Newberry (15590) 23.0 gal / Leroy Springs (02067) 27.05 gal. Simpsonville (12036) 6.75 gal / Legrone Land (12757) 17.0 gal / Hot Spot 8004 (04561) 32.5 gal Whitaker Property (14301) 55.6 gal / Moon's Landing (11276) 13.5 gal / Kath's Bloc (10917) 9.5 gal SCDOT Gaffney (01910) 69.65 gal / George Souther (08650) 105.0 gal.

"Service is our Business"

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 2

786787

To Be Completed by Pace Analytical and Client **Section C**

Required Client Information: **Section A**

Company	SC DHEC
Address	2600 Bull St
	Columbia SC
Phone	
Fax	

Required Client Information: **Section B**

Report To:	D. Thoma
Copy To:	
Invoice To:	Finance
P.O.	463276
Project Name:	George Souther
Project Number:	08650 20614

Client Information (Check quote/contract):

Requested Due Date: *TAT:

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.

Turn Around Time (TAT) in calendar days.

Quote Reference:

Project Manager:

Project #:

Profile #:

Requested Analysis:

Section D **Required** Client Information:

SAMPLE ID

One character per box.
(A–Z, 0–9 / .–)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

ITEM #	SAMPLE ID	MATRIX CODE	DATE COLLECTED (mm / dd / yy)	TIME COLLECTED (hh:mm a/p)	# Containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	BTEX	MTBE	Naphthalene	Pb	Remarks / Lab ID
1	MW-12	WT	1/7/04	1732	4			1	3					X	X	X	X	
2	MW-13	"	1/7/04	1624	4			1	3					X	X	X	X	
3	MW-14	"	"	1610	4			1	3					X	X	X	X	
4	MW-15	"	"	1618	4			1	3					X	X	X	X	
5	MW-16	"	"	1247	4			1	3					X	X	X	X	
6	MW-17	"	"	1802	4			1	3					X	X	X	X	
7	MW-18	"	"	1219	4			1	3					X	X	X	X	
8	MW-19	"	"	1202	4			1	3					X	X	X	X	
9	MW-20	"	"	1210	4			1	3					X	X	X	X	
10	MW-21	"	"	1649	4			1	3					X	X	X	X	
11	MW-22	"	"	1643	4			1	3					X	X	X	X	
12	MW-23	"	"	1237	4			1	3					X	X	X	X	

SITE LOCATION: ☐ NC ☐ SC ☐ GA ☐ Other_____

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ Other_____

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
James Tan/J.A. Jones	1/8	1930			

SAMPLE CONDITION

Temp in °C	
Received on Ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

SAMPLE NOTES

Additional Comments:

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: James Tan

SIGNATURE of SAMPLER: [signature]

DATE Signed: (MM / DD / YY) 1/8/04

SEE REVERSE SIDE FOR INSTRUCTIONS

Form COC01 Rev. 0903

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 2

786788

To Be Completed by Pace Analytical and Client **Section C**

Required Client Information: **Section A**

Company: SC DHEC
Address: 2600 Bull St
Columbia SC
Phone:
Fax:

Required Client Information: **Section B**

Report To: D. Thoma
Copy To:
Invoice To: Finance
P.O. 463276
Project Name: George Souther
Project Number: 08650 20614

Client Information (Check quote/contract):
Requested Due Date:
*TAT:

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

Quote Reference:
Project Manager:
Project #:
Profile #:

Section D **Required** Client Information:

SAMPLE ID
One character per box.
(A–Z, 0–9 / .–)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

ITEM #	SAMPLE ID	MATRIX CODE	DATE COLLECTED mm / dd / yy	TIME COLLECTED hh: mm a/p	# Containers	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	BTEX	MTBE	Naphthalene	Pb	Remarks / Lab ID
1	MW-24	WT	1/7/04	1408	4			1	3					✓	✓	✓	✓	
2	MW-25	"	"	1402	4			1	3					✓	✓	✓	✓	
3	MW-7	"	"	1419	4			1	3					✓	✓	✓	✓	
4	MW-1	"	1/8/04	1229	4			1	3					✓	✓	✓	✓	
5	MW-3	"	"	1331	4			1	3					✓	✓	✓	✓	
6	MW-4	"	"	1429	4			1	3					✓	✓	✓	✓	
7	MW-9	"	"	1218	4			1	3					✓	✓	✓	✓	
8	RW-1	"	"	1542	4			1	3					✓	✓	✓	✓	
9	PW-2	"	"	1634	4			1	3					✓	✓	✓	✓	
10																		
11																		
12																		

SITE LOCATION
☐ NC ☐ SC ☐ GA
☐ Other_____

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ Other_____

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
James Tan / J.A. Jones	1/8	1930			

SAMPLE CONDITION

Temp in °C	
Received on Ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

SAMPLE NOTES

Additional Comments:

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: James Tan
SIGNATURE of SAMPLER:
DATE Signed: (MM / DD / YY) 1/8/04

SEE REVERSE SIDE FOR INSTRUCTIONS

Form COC01 Rev. 0903

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): 01/08/04

Field Personnel: JT

General Weather Conditions: Cloudy

Ambient Air Temperature: 10.0 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Jim Tan	1/8 1930		
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: George Souther Spartanburg

Site ID#: 08650 **Monitoring Well #** MW-1

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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)	13.05		feet
Total Well Depth (TWD)	17		feet
Length of the water column (LWC=TWD-DGW)		3.95	feet
1 casing volume (CV=LWC X C)=	0.163	0.64385	gallons
3 casing volume (3 X CV)=	3	1.93155	gallons

Total Volume of Water Purged Before Sampling 0 gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 0-w/in the screen	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		1229						
pH (s.u.)		6.7						
Specific Conductivity (μmhos/cm)		-						
Water Temperature (°C)		16.9						
Dissolved Oxygen		0.4						
PID readings, if required								

Remarks: Sample time: 1229

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): 01/08/04

Field Personnel: JT

General Weather Conditions: Cloudy

Ambient Air Temperature: 10.0 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: George Souther Spartanburg

Site ID#: 08650 **Monitoring Well #** MW-2

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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)	17.27		feet
Total Well Depth (TWD)	17		feet
Length of the water column (LWC=TWD-DGW)		-0.27	feet
1 casing volume (CV=LWC X C)=	0.163	-0.04401	gallons
3 casing volume (3 X CV)=	3	-0.13203	gallons

Total Volume of Water Purged Before Sampling 0 gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 0-w/in the screen	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: Not sampled due to well dry
Total depth of 17.51' obtained in field measurement from the top of casing.

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): 01/08/04

Field Personnel: JT

General Weather Conditions: Cloudy

Ambient Air Temperature: 10.0 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Jim Tan	1/8 1930		
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: George Souther Spartanburg

Site ID#: 08650 **Monitoring Well #** MW-3

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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)	14.19		feet
Total Well Depth (TWD)	19		feet
Length of the water column (LWC=TWD-DGW)		4.81	feet
1 casing volume (CV=LWC X C)=	0.163	0.78403	gallons
3 casing volume (3 X CV)=	3	2.35209	gallons

Total Volume of Water Purged Before Sampling 0 gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 0-w/in the screen	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		1331						
pH (s.u.)		6.1						
Specific Conductivity (µmhos/cm)		-						
Water Temperature (°C)		13.1						
Dissolved Oxygen		0.1						
PID readings, if required								

Remarks: Sample time: 1331 Sheen on water surface

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): 01/08/04
Field Personnel: JT
General Weather Conditions: Cloudy

Ambient Air Temperature: 10.0 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Jim Tan	1/8 1930		
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: George Souther Spartanburg
Site ID#: 08650 **Monitoring Well #** MW-4
Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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)	8.77		feet
Total Well Depth (TWD)	19		feet
Length of the water column (LWC=TWD-DGW)		10.23	feet
1 casing volume (CV=LWC X C)= _____	0.163	1.66749	gallons
3 casing volume (3 X CV)=	3	5.00247	gallons

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) 5-w/in the screen	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		1415	1422	1429				
pH (s.u.)		6	6	5.9				
Specific Conductivity (µmhos/cm)		-	-	-				
Water Temperature (°C)		14.5	15.0	14.9				
Dissolved Oxygen		0	0	0				
PID readings, if required								

Remarks: Sample time: 1429
No lock

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): 01/08/04

Field Personnel: JT

General Weather Conditions: Cloudy

Ambient Air Temperature: 10.0 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time

Received by Date/Time

Facility Name: George Souther Spartanburg

Site ID#: 08650 **Monitoring Well #** MW-5

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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:	0.49		feet
Depth to Free Product (DFP)	10.8		feet
Depth to Ground Water (DGW)	11.29		feet
Total Well Depth (TWD)			feet
Length of the water column (LWC=TWD-DGW)			feet
1 casing volume (CV=LWC X C)=	0.163		gallons
3 casing volume (3 X CV)=	3		gallons

Total Volume of Water Purged Before Sampling 0 gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 0-w/in the screen	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: Not sampled

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): 01/07/04

Field Personnel: JT

General Weather Conditions: Sunny

Ambient Air Temperature: 5.0 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time

Received by Date/Time

Facility Name: George Souther Spartanburg

Site ID#: 08650 **Monitoring Well #** MW-6

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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:	0.58	feet
Depth to Free Product (DFP)	8.73	feet
Depth to Ground Water (DGW)	9.31	feet
Total Well Depth (TWD)		feet
Length of the water column (LWC=TWD-DGW)		feet
1 casing volume (CV=LWC X C)= _____	0.163	gallons
3 casing volume (3 X CV)=	3	gallons

Total Volume of Water Purged Before Sampling 0 gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 0-w/in the screen	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: Not sampled
Vault slab cracked

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): 01/07/04
Field Personnel: JT
General Weather Conditions: Sunny

Ambient Air Temperature: 5.0 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
Jim Tan	1/8 1930		

Facility Name: George Souther Spartanburg
Site ID#: 08650 **Monitoring Well #** MW-7
Water Supply Well **Public** ____ **Private** ____

Monitoring Well Diameter (D): 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)	11.88		feet
Total Well Depth (TWD)	19		feet
Length of the water column (LWC=TWD-DGW)		7.12	feet
1 casing volume (CV=LWC X C)=	0.163	1.16056	gallons
3 casing volume (3 X CV)=	3	3.48168	gallons

Total Volume of Water Purged Before Sampling 0 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 0-w/in the screen	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		1419						
pH (s.u.)		5.9						
Specific Conductivity (µmhos/cm)		-						
Water Temperature (°C)		14.6						
Dissolved Oxygen		0.1						
PID readings, if required								

Remarks: Sample time: 1419 Strong gasoline odor and sheen on water surface
No lock

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): 01/07/04

Field Personnel: JT

General Weather Conditions: Sunny

Ambient Air Temperature: 5.0 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: George Souther Spartanburg

Site ID#: 08650 **Monitoring Well #** MW-8

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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:	0.5		feet
Depth to Free Product (DFP)	16.25		feet
Depth to Ground Water (DGW)	16.75		feet
Total Well Depth (TWD)			feet
Length of the water column (LWC=TWD-DGW)			feet
1 casing volume (CV=LWC X C)=	0.163		gallons
3 casing volume (3 X CV)=	3		gallons

Total Volume of Water Purged Before Sampling 0 gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 0-w/in the screen	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: Not sampled
No lock

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): 01/08/04

Field Personnel: JT

General Weather Conditions: Cloudy

Ambient Air Temperature: 10.0 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Jim Tan	1/8 1930		
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: George Souther Spartanburg

Site ID#: 08650 **Monitoring Well #** MW-9

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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)	17.64		feet
Total Well Depth (TWD)	24		feet
Length of the water column (LWC=TWD-DGW)		6.36	feet
1 casing volume (CV=LWC X C)=	0.163	1.03668	gallons
3 casing volume (3 X CV)=	3	3.11004	gallons

Total Volume of Water Purged Before Sampling 0 gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 0-w/in the screen	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		1218						
pH (s.u.)		6.9						
Specific Conductivity (μmhos/cm)		-						
Water Temperature (°C)		15.1						
Dissolved Oxygen		0.8						
PID readings, if required								

Remarks: Sample time: 1218

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): 01/07/04

Field Personnel: JT

General Weather Conditions: Sunny

Ambient Air Temperature: 5.0 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by Date/Time Received by Date/Time

Facility Name: George Souther Spartanburg

Site ID#: 08650 **Monitoring Well #** MW-11

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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:	0.22	feet
Depth to Free Product (DFP)	12.5	feet
Depth to Ground Water (DGW)	12.72	feet
Total Well Depth (TWD)		feet
Length of the water column (LWC=TWD-DGW)		feet
1 casing volume (CV=LWC X C)=	0.163	gallons
3 casing volume (3 X CV)=	3	gallons

Total Volume of Water Purged Before Sampling 0 gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 0-w/in the screen	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: Not sampled
No lock

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): 01/07/04
Field Personnel: JT
General Weather Conditions: Sunny

Ambient Air Temperature: 5.0 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Jim Tan	1/8 1930		
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: George Souther Spartanburg
Site ID#: 08650 **Monitoring Well #** MW-12
Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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)	13.76		feet
Total Well Depth (TWD)	25		feet
Length of the water column (LWC=TWD-DGW)		11.24	feet
1 casing volume (CV=LWC X C)=	0.163	1.83212	gallons
3 casing volume (3 X CV)=	3	5.49636	gallons

Total Volume of Water Purged Before Sampling 5.5 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 5.5-w/in the screen	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		1716	1722	1730				
pH (s.u.)		4.8	5.2	5.1				
Specific Conductivity (μmhos/cm)		-	-	-				
Water Temperature (°C)		12.5	12.6	14.2				
Dissolved Oxygen		1.3	1.3	1.5				
PID readings, if required								

Remarks: Sample time: 1732

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): 01/07/04
Field Personnel: JT
General Weather Conditions: Sunny

Ambient Air Temperature: 5.0 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Jim Tan	1/8 1930		
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: George Souther Spartanburg
Site ID#: 08650 **Monitoring Well #** MW-13
Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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)	5.14		feet
Total Well Depth (TWD)	15		feet
Length of the water column (LWC=TWD-DGW)		9.86	feet
1 casing volume (CV=LWC X C)=	0.163	1.60718	gallons
3 casing volume (3 X CV)=	3	4.82154	gallons

Total Volume of Water Purged Before Sampling 0 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 0-w/in the screen	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		1624						
pH (s.u.)		6.2						
Specific Conductivity (µmhos/cm)		-						
Water Temperature (°C)		10.0						
Dissolved Oxygen		0.6						
PID readings, if required								

Remarks: Sample time: 1624

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): 01/07/04

Field Personnel: JT

General Weather Conditions: Sunny

Ambient Air Temperature: 5.0 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Jim Tan	1/8 1930		
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: George Souther Spartanburg

Site ID#: 08650 **Monitoring Well #** MW-14

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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)	4.74		feet
Total Well Depth (TWD)	25		feet
Length of the water column (LWC=TWD-DGW)		20.26	feet
1 casing volume (CV=LWC X C)=	0.163	3.30238	gallons
3 casing volume (3 X CV)=	3	9.90714	gallons

Total Volume of Water Purged Before Sampling 10 gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 10-w/in the screen	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		1553	1559	1605				
pH (s.u.)		6.6	6.3	5.9				
Specific Conductivity (μmhos/cm)		-	-	-				
Water Temperature (°C)		12.5	13.0	13.0				
Dissolved Oxygen		1.4	1.8	1.1				
PID readings, if required								

Remarks: Sample time: 1610

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): 01/07/04

Field Personnel: JT

General Weather Conditions: Sunny

Ambient Air Temperature: 5.0 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Jim Tan	1/8 1930		
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: George Souther Spartanburg

Site ID#: 08650 **Monitoring Well #** MW-15

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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)	4.05		feet
Total Well Depth (TWD)	25		feet
Length of the water column (LWC=TWD-DGW)		20.95	feet
1 casing volume (CV=LWC X C)=	0.163	3.41485	gallons
3 casing volume (3 X CV)=	3	10.24455	gallons

Total Volume of Water Purged Before Sampling 10 gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 10-w/in the screen	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		1531	1536	1541				
pH (s.u.)		6.4	6.4	6.4				
Specific Conductivity (µmhos/cm)		-	-	-				
Water Temperature (°C)		11.4	12.5	13.0				
Dissolved Oxygen		0.3	0.2	0.1				
PID readings, if required								

Remarks: Sample time: 1618

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): 01/07/04
Field Personnel: JT
General Weather Conditions: Sunny

Ambient Air Temperature: 5.0 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Jim Tan	1/8 1930		
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: George Souther Spartanburg
Site ID#: 08650 **Monitoring Well #** MW-16
Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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)	15.36		feet
Total Well Depth (TWD)	35		feet
Length of the water column (LWC=TWD-DGW)		19.64	feet
1 casing volume (CV=LWC X C)=	0.163	3.20132	gallons
3 casing volume (3 X CV)=	3	9.60396	gallons

Total Volume of Water Purged Before Sampling 0 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 0-w/in the screen	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		1247						
pH (s.u.)		5.6						
Specific Conductivity (µmhos/cm)		-						
Water Temperature (°C)		14.1						
Dissolved Oxygen		0.2						
PID readings, if required								

Remarks: Sample time: 1247
No lock

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): 01/07/04

Field Personnel: JT

General Weather Conditions: Sunny

Ambient Air Temperature: 5.0 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Jim Tan	1/8 1930		
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: George Souther Spartanburg

Site ID#: 08650 **Monitoring Well #** MW-17

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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)	11.9		feet
Total Well Depth (TWD)	35		feet
Length of the water column (LWC=TWD-DGW)		23.1	feet
1 casing volume (CV=LWC X C)=	0.163	3.7653	gallons
3 casing volume (3 X CV)=	3	11.2959	gallons

Total Volume of Water Purged Before Sampling 11.5 gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 11.5-w/in the screen	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		1749	1753	1757				
pH (s.u.)		10.8	8	7.8				
Specific Conductivity (μmhos/cm)		-	-	-				
Water Temperature (°C)		12.4	14.2	11.4				
Dissolved Oxygen		0.6	0.8	0.8				
PID readings, if required								

Remarks: Sample time: 1802

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): 01/07/04

Field Personnel: JT

General Weather Conditions: Sunny

Ambient Air Temperature: 5.0 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Jim Tan	1/8 1930		
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: George Souther Spartanburg

Site ID#: 08650 **Monitoring Well #** MW-18

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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)	20.42		feet
Total Well Depth (TWD)	35		feet
Length of the water column (LWC=TWD-DGW)		14.58	feet
1 casing volume (CV=LWC X C)=	0.163	2.37654	gallons
3 casing volume (3 X CV)=	3	7.12962	gallons

Total Volume of Water Purged Before Sampling 0 gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 0-w/in the screen	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		1219						
pH (s.u.)		6.3						
Specific Conductivity (μmhos/cm)		-						
Water Temperature (°C)		13.1						
Dissolved Oxygen		0.2						
PID readings, if required								

Remarks: Sample time: 1219
No lock and vault slab cracked

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): 01/07/04

Field Personnel: JT

General Weather Conditions: Sunny

Ambient Air Temperature: 5.0 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Jim Tan	1/8 1930		
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: George Souther Spartanburg

Site ID#: 08650 **Monitoring Well #** MW-19

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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)	22.21		feet
Total Well Depth (TWD)	40		feet
Length of the water column (LWC=TWD-DGW)		17.79	feet
1 casing volume (CV=LWC X C)=	0.163	2.89977	gallons
3 casing volume (3 X CV)=	3	8.69931	gallons

Total Volume of Water Purged Before Sampling 0 gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 0-w/in the screen	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		1202						
pH (s.u.)		7.9						
Specific Conductivity (μmhos/cm)		-						
Water Temperature (°C)		10.8						
Dissolved Oxygen		0.3						
PID readings, if required								

Remarks: Sample time: 1202
No lock

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): 01/07/04

Field Personnel: JT

General Weather Conditions: Sunny

Ambient Air Temperature: 5.0 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Jim Tan	1/8 1930		
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: George Souther Spartanburg

Site ID#: 08650 **Monitoring Well #** MW-20

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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)	24.23		feet
Total Well Depth (TWD)	36		feet
Length of the water column (LWC=TWD-DGW)		11.77	feet
1 casing volume (CV=LWC X C)=	0.163	1.91851	gallons
3 casing volume (3 X CV)=	3	5.75553	gallons

Total Volume of Water Purged Before Sampling 0 gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 0-w/in the screen	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		1210						
pH (s.u.)		6.8						
Specific Conductivity (µmhos/cm)		-						
Water Temperature (°C)		11.9						
Dissolved Oxygen		1.2						
PID readings, if required								

Remarks: Sample time: 1210
No lock

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): 01/07/04

Field Personnel: JT

General Weather Conditions: Sunny

Ambient Air Temperature: 5.0 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
Jim Tan	1/8 1930		

Facility Name: George Souther Spartanburg

Site ID#: 08650 **Monitoring Well #** MW-21

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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)	5.8		feet
Total Well Depth (TWD)	20		feet
Length of the water column (LWC=TWD-DGW)		14.2	feet
1 casing volume (CV=LWC X C)=	0.163	2.3146	gallons
3 casing volume (3 X CV)=	3	6.9438	gallons

Total Volume of Water Purged Before Sampling 0 gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 0-w/in the screen	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		1649						
pH (s.u.)		6.2						
Specific Conductivity (μmhos/cm)		-						
Water Temperature (°C)		9.0						
Dissolved Oxygen		0.9						
PID readings, if required								

Remarks: Sample time: 1649

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): 01/07/04
Field Personnel: JT
General Weather Conditions: Sunny

Ambient Air Temperature: 5.0 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
Jim Tan	1/8 1930		

Facility Name: George Souther Spartanburg
Site ID#: 08650 **Monitoring Well #** MW-22
Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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)	8.41		feet
Total Well Depth (TWD)	20		feet
Length of the water column (LWC=TWD-DGW)		11.59	feet
1 casing volume (CV=LWC X C)=	0.163	1.88917	gallons
3 casing volume (3 X CV)=	3	5.66751	gallons

Total Volume of Water Purged Before Sampling 0 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 0-w/in the screen	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		1643						
pH (s.u.)		6.4						
Specific Conductivity (μmhos/cm)		-						
Water Temperature (°C)		10.7						
Dissolved Oxygen		0.6						
PID readings, if required								

Remarks: Sample time: 1643

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): 01/07/04
Field Personnel: JT
General Weather Conditions: Sunny

Ambient Air Temperature: 5.0 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Jim Tan	1/8 1930		
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: George Souther Spartanburg
Site ID#: 08650 **Monitoring Well #** MW-23
Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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)	18.14			feet
Total Well Depth (TWD)	23			feet
Length of the water column (LWC=TWD-DGW)			4.86	feet
1 casing volume (CV=LWC X C)=		0.163	0.79218	gallons
3 casing volume (3 X CV)=		3	2.37654	gallons

Total Volume of Water Purged Before Sampling 0 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 0-w/in the screen	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		1237						
pH (s.u.)		5.9						
Specific Conductivity (μmhos/cm)		-						
Water Temperature (°C)		14.1						
Dissolved Oxygen		1.2						
PID readings, if required								

Remarks: Sample time: 1237
No lock

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): 01/07/04

Field Personnel: JT

General Weather Conditions: Sunny

Ambient Air Temperature: 5.0 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Jim Tan	1/8 1930		
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: George Souther Spartanburg

Site ID#: 08650 **Monitoring Well #** MW-24

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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)	7.33		feet
Total Well Depth (TWD)	20		feet
Length of the water column (LWC=TWD-DGW)		12.67	feet
1 casing volume (CV=LWC X C)=	0.163	2.06521	gallons
3 casing volume (3 X CV)=	3	6.19563	gallons

Total Volume of Water Purged Before Sampling 0 gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 0-w/in the screen	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		1408						
pH (s.u.)		6.6						
Specific Conductivity (μmhos/cm)		-						
Water Temperature (°C)		12.8						
Dissolved Oxygen		0.4						
PID readings, if required								

Remarks: Sample time: 1408

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): 01/07/04
Field Personnel: JT
General Weather Conditions: Sunny

Ambient Air Temperature: 5.0 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Jim Tan	1/8 1930		
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: George Souther Spartanburg
Site ID#: 08650 **Monitoring Well #** MW-25
Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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)	7.03		feet
Total Well Depth (TWD)	20		feet
Length of the water column (LWC=TWD-DGW)		12.97	feet
1 casing volume (CV=LWC X C)=	0.163	2.11411	gallons
3 casing volume (3 X CV)=	3	6.34233	gallons

Total Volume of Water Purged Before Sampling 0 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 0-w/in the screen	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		1402						
pH (s.u.)		6.6						
Specific Conductivity (μmhos/cm)		-						
Water Temperature (°C)		11.4						
Dissolved Oxygen		1						
PID readings, if required								

Remarks: Sample time: 1402

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): 01/08/04

Field Personnel: JT

General Weather Conditions: Cloudy

Ambient Air Temperature: 10.0 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Jim Tan	1/8 1930		
Relinquished by	Date/Time	Received by	Date/Time

Facility Name: George Souther Spartanburg

Site ID#: 08650 **Monitoring Well #** PW-2

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): 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)	14.55		feet
Total Well Depth (TWD)	75		feet
Length of the water column (LWC=TWD-DGW)		60.45	feet
1 casing volume (CV=LWC X C)=	0.163	9.85335	gallons
3 casing volume (3 X CV)=	3	29.56005	gallons

Total Volume of Water Purged Before Sampling 30 gals.

*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons) 30-w/in the screen	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)		1605	1619	1634				
pH (s.u.)		6.5	7.1	6.9				
Specific Conductivity (μmhos/cm)		-	-	-				
Water Temperature (°C)		14.1	14.0	14.0				
Dissolved Oxygen		1	0.7	0.8				
PID readings, if required								

Remarks: Sample time: 1634

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): 01/08/04
Field Personnel: JT
General Weather Conditions: Cloudy

Ambient Air Temperature: 10.0 °C

Quality Assurance

pH Meter		Conductivity Meter	
serial no.		serial no.	
pH=4.0	X	standard	X
pH=7.0		standard	
pH=10.0		standard	

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time
Jim Tan	1/8 1930		

Facility Name: George Souther Spartanburg
Site ID#: 08650 **Monitoring Well #** RW-1
Water Supply Well **Public** ____ **Private** ____

Monitoring Well Diameter (D): 4 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) 12.94 feet
Total Well Depth (TWD) 30 feet
Length of the water column (LWC=TWD-DGW) 17.06 feet
1 casing volume (CV=LWC X C)= ____ 0.652 11.12312 gallons
3 casing volume (3 X CV)= 3 33.36936 gallons

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)	33-w/in the screen	Inital	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post Sampling	
Time (military)			1510	1526	1537				
pH (s.u.)			5.9	5.9	5.8				
Specific Conductivity (µmhos/cm)			-	-	-				
Water Temperature (°C)			15.9	16.0	15.8				
Dissolved Oxygen			0.1	0	0.1				
PID readings, if required									

Remarks: Sample time: 1542
No lock and bolts

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January 20, 2004

Ms. Debra Thoma
SCDHEC
UST Program
2600 Bull Street
Columbia, SC 29201

RE: Lab Project Number: 9257300
Client Project ID: George Souther 08650 20614

Dear Ms. Thoma:

Enclosed are the analytical results for sample(s) received by the laboratory on January 9, 2004. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Sherri Stabel
Sherri.Stabel@pacelabs.com
Project Manager

Enclosures

RECEIVED
JAN 27 2004
UNDERGROUND STORAGE
TANK PROGRAM

UST PROGRAM
DOCKETING # Ole Tech

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Lab Project Number: 9257300
Client Project ID: George Souther 08650 20614

Lab Sample No: 923706691 | Project Sample Number: 9257300-016 | Date Collected: 01/08/04 12:29
Client Sample ID: MW-1 | Matrix: Water | Date Received: 01/09/04 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.12	mg/l	0.0050	1.0	01/13/04 01:32	LBG	7439-92-1		
Date Digested	01/12/04				01/12/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	600	ug/l	25.	5.0	01/14/04 23:27	DLK	71-43-2		
Ethylbenzene	12.	J ug/l	25.	5.0	01/14/04 23:27	DLK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	25.	5.0	01/14/04 23:27	DLK	1634-04-4		
Naphthalene	24.	J ug/l	25.	5.0	01/14/04 23:27	DLK	91-20-3		
Toluene	ND	ug/l	25.	5.0	01/14/04 23:27	DLK	108-88-3		
m&p-Xylene	ND	ug/l	50.	5.0	01/14/04 23:27	DLK			
o-Xylene	8.3	J ug/l	25.	5.0	01/14/04 23:27	DLK	95-47-6		
Toluene-d8 (S)	97	%		1.0	01/14/04 23:27	DLK	2037-26-5		
4-Bromofluorobenzene (S)	90	%		1.0	01/14/04 23:27	DLK	460-00-4		
Dibromofluoromethane (S)	102	%		1.0	01/14/04 23:27	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	103	%		1.0	01/14/04 23:27	DLK	17060-07-0		

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Lab Project Number: 9257300
Client Project ID: George Souther 08650 20614

Lab Sample No: 923706709 | Project Sample Number: 9257300-017 | Date Collected: 01/08/04 13:31
Client Sample ID: MW-3 | Matrix: Water | Date Received: 01/09/04 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.13	mg/l	0.0050	1.0	01/13/04 01:36	LBG	7439-92-1		
Date Digested	01/12/04				01/12/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	34000	ug/l	2500	500	01/15/04 01:52	DLK	71-43-2		
Ethylbenzene	3200	ug/l	1000	200	01/15/04 01:52	DLK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	1000	200	01/15/04 01:52	DLK	1634-04-4		
Naphthalene	1200	ug/l	1000	200	01/15/04 01:52	DLK	91-20-3		
Toluene	45000	ug/l	2500	500	01/15/04 01:52	DLK	108-88-3		
m&p-Xylene	11000	ug/l	2000	200	01/15/04 01:52	DLK			
o-Xylene	5000	ug/l	1000	200	01/15/04 01:52	DLK	95-47-6		
Toluene-d8 (S)	98	%		1.0	01/15/04 01:52	DLK	2037-26-5		
4-Bromofluorobenzene (S)	90	%		1.0	01/15/04 01:52	DLK	460-00-4		
Dibromofluoromethane (S)	105	%		1.0	01/15/04 01:52	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	106	%		1.0	01/15/04 01:52	DLK	17060-07-0		

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Lab Project Number: 9257300
Client Project ID: George Souther 08650 20614

Lab Sample No: 923706717 | Project Sample Number: 9257300-018 | Date Collected: 01/08/04 14:29
Client Sample ID: MW-4 | Matrix: Water | Date Received: 01/09/04 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.0034 J	mg/l	0.0050	1.0	01/13/04 01:41	LBG	7439-92-1		
Date Digested	01/12/04				01/12/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	ND	ug/l	5.0	1.0	01/15/04 00:54	DLK	71-43-2		
Ethylbenzene	ND	ug/l	5.0	1.0	01/15/04 00:54	DLK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	01/15/04 00:54	DLK	1634-04-4		
Naphthalene	ND	ug/l	5.0	1.0	01/15/04 00:54	DLK	91-20-3		
Toluene	ND	ug/l	5.0	1.0	01/15/04 00:54	DLK	108-88-3		
m&p-Xylene	ND	ug/l	10.	1.0	01/15/04 00:54	DLK			
o-Xylene	ND	ug/l	5.0	1.0	01/15/04 00:54	DLK	95-47-6		
Toluene-d8 (S)	97	%		1.0	01/15/04 00:54	DLK	2037-26-5		
4-Bromofluorobenzene (S)	92	%		1.0	01/15/04 00:54	DLK	460-00-4		
Dibromofluoromethane (S)	107	%		1.0	01/15/04 00:54	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	104	%		1.0	01/15/04 00:54	DLK	17060-07-0		

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Lab Project Number: 9257300
Client Project ID: George Souther 08650 20614

Lab Sample No: 923706683 | Project Sample Number: 9257300-015 | Date Collected: 01/07/04 14:19
Client Sample ID: MW-7 | Matrix: Water | Date Received: 01/09/04 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.10	mg/l	0.0050	1.0	01/13/04 01:23	LBG	7439-92-1		
Date Digested	01/12/04				01/12/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	49000	ug/l	2500	500	01/14/04 11:27	DLK	71-43-2		
Ethylbenzene	3200	ug/l	500	100	01/14/04 11:27	DLK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	500	100	01/14/04 11:27	DLK	1634-04-4		
Naphthalene	780	ug/l	500	100	01/14/04 11:27	DLK	91-20-3		
Toluene	87000	ug/l	2500	500	01/14/04 11:27	DLK	108-88-3		
m&p-Xylene	12000	ug/l	1000	100	01/14/04 11:27	DLK			
o-Xylene	5600	ug/l	500	100	01/14/04 11:27	DLK	95-47-6		
Toluene-d8 (S)	93	%		1.0	01/14/04 11:27	DLK	2037-26-5		
4-Bromofluorobenzene (S)	93	%		1.0	01/14/04 11:27	DLK	460-00-4		
Dibromofluoromethane (S)	118	%		1.0	01/14/04 11:27	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	118	%		1.0	01/14/04 11:27	DLK	17060-07-0		

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Lab Project Number: 9257300
Client Project ID: George Souther 08650 20614

Lab Sample No: 923706725 | Project Sample Number: 9257300-019 | Date Collected: 01/08/04 12:18
Client Sample ID: MW-9 | Matrix: Water | Date Received: 01/09/04 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.014	mg/l	0.0050	1.0	01/13/04 01:45	LBG	7439-92-1		
Date Digested	01/12/04				01/12/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	39000	ug/l	2500	500	01/15/04 02:21	DLK	71-43-2		
Ethylbenzene	2000	ug/l	120	25.0	01/15/04 02:21	DLK	100-41-4		
Methyl-tert-butyl ether	350	ug/l	120	25.0	01/15/04 02:21	DLK	1634-04-4		
Naphthalene	650	ug/l	120	25.0	01/15/04 02:21	DLK	91-20-3		
Toluene	33000	ug/l	2500	500	01/15/04 02:21	DLK	108-88-3		
m&p-Xylene	7900	ug/l	250	25.0	01/15/04 02:21	DLK			
o-Xylene	3600	ug/l	120	25.0	01/15/04 02:21	DLK	95-47-6		
Toluene-d8 (S)	92	%		1.0	01/15/04 02:21	DLK	2037-26-5		
4-Bromofluorobenzene (S)	92	%		1.0	01/15/04 02:21	DLK	460-00-4		
Dibromofluoromethane (S)	106	%		1.0	01/15/04 02:21	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	111	%		1.0	01/15/04 02:21	DLK	17060-07-0		

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Lab Project Number: 9257300
Client Project ID: George Souther 08650 20614

Lab Sample No: 923706543 | Project Sample Number: 9257300-001 | Date Collected: 01/07/04 17:32
Client Sample ID: MW-12 | Matrix: Water | Date Received: 01/09/04 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.049	mg/l	0.0050	1.0	01/13/04 00:10	LBG	7439-92-1		
Date Digested	01/12/04				01/12/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	ND	ug/l	5.0	1.0	01/14/04 01:50	DLK	71-43-2		
Ethylbenzene	ND	ug/l	5.0	1.0	01/14/04 01:50	DLK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	01/14/04 01:50	DLK	1634-04-4		
Naphthalene	ND	ug/l	5.0	1.0	01/14/04 01:50	DLK	91-20-3		
Toluene	ND	ug/l	5.0	1.0	01/14/04 01:50	DLK	108-88-3		
m&p-Xylene	ND	ug/l	10.	1.0	01/14/04 01:50	DLK			
o-Xylene	ND	ug/l	5.0	1.0	01/14/04 01:50	DLK	95-47-6		
Toluene-d8 (S)	97	%		1.0	01/14/04 01:50	DLK	2037-26-5		
4-Bromofluorobenzene (S)	92	%		1.0	01/14/04 01:50	DLK	460-00-4		
Dibromofluoromethane (S)	107	%		1.0	01/14/04 01:50	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	107	%		1.0	01/14/04 01:50	DLK	17060-07-0		

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Lab Project Number: 9257300
Client Project ID: George Souther 08650 20614

Lab Sample No: 923706550 | Project Sample Number: 9257300-002 | Date Collected: 01/07/04 16:24
Client Sample ID: MW-13 | Matrix: Water | Date Received: 01/09/04 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.0024 J	mg/l	0.0050	1.0	01/13/04 00:15	LBG	7439-92-1		
Date Digested	01/12/04				01/12/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	ND	ug/l	5.0	1.0	01/14/04 02:19	DLK	71-43-2		
Ethylbenzene	ND	ug/l	5.0	1.0	01/14/04 02:19	DLK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	01/14/04 02:19	DLK	1634-04-4		
Naphthalene	ND	ug/l	5.0	1.0	01/14/04 02:19	DLK	91-20-3		
Toluene	ND	ug/l	5.0	1.0	01/14/04 02:19	DLK	108-88-3		
m&p-Xylene	ND	ug/l	10.	1.0	01/14/04 02:19	DLK			
o-Xylene	ND	ug/l	5.0	1.0	01/14/04 02:19	DLK	95-47-6		
Toluene-d8 (S)	98	%		1.0	01/14/04 02:19	DLK	2037-26-5		
4-Bromofluorobenzene (S)	91	%		1.0	01/14/04 02:19	DLK	460-00-4		
Dibromofluoromethane (S)	107	%		1.0	01/14/04 02:19	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	98	%		1.0	01/14/04 02:19	DLK	17060-07-0		

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Lab Project Number: 9257300
Client Project ID: George Souther 08650 20614

Lab Sample No: 923706568 | Project Sample Number: 9257300-003 | Date Collected: 01/07/04 16:10
Client Sample ID: MW-14 | Matrix: Water | Date Received: 01/09/04 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.0087	mg/l	0.0050	1.0	01/13/04 00:19	LBG	7439-92-1		
Date Digested	01/12/04				01/12/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	ND	ug/l	5.0	1.0	01/14/04 02:48	DLK	71-43-2		
Ethylbenzene	ND	ug/l	5.0	1.0	01/14/04 02:48	DLK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	01/14/04 02:48	DLK	1634-04-4		
Naphthalene	ND	ug/l	5.0	1.0	01/14/04 02:48	DLK	91-20-3		
Toluene	ND	ug/l	5.0	1.0	01/14/04 02:48	DLK	108-88-3		
m&p-Xylene	ND	ug/l	10.	1.0	01/14/04 02:48	DLK			
o-Xylene	ND	ug/l	5.0	1.0	01/14/04 02:48	DLK	95-47-6		
Toluene-d8 (S)	95	%		1.0	01/14/04 02:48	DLK	2037-26-5		
4-Bromofluorobenzene (S)	88	%		1.0	01/14/04 02:48	DLK	460-00-4		
Dibromofluoromethane (S)	115	%		1.0	01/14/04 02:48	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	116	%		1.0	01/14/04 02:48	DLK	17060-07-0		

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Lab Project Number: 9257300
Client Project ID: George Souther 08650 20614

Lab Sample No: 923706576 | Project Sample Number: 9257300-004 | Date Collected: 01/07/04 16:18
Client Sample ID: MW-15 | Matrix: Water | Date Received: 01/09/04 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.0058	mg/l	0.0050	1.0	01/13/04 00:24	LBG	7439-92-1		
Date Digested	01/12/04				01/12/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	110	ug/l	5.0	1.0	01/14/04 03:17	DLK	71-43-2		
Ethylbenzene	ND	ug/l	5.0	1.0	01/14/04 03:17	DLK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	01/14/04 03:17	DLK	1634-04-4		
Naphthalene	7.4	ug/l	5.0	1.0	01/14/04 03:17	DLK	91-20-3		
Toluene	12.	ug/l	5.0	1.0	01/14/04 03:17	DLK	108-88-3		
m&p-Xylene	16.	ug/l	10.	1.0	01/14/04 03:17	DLK			
o-Xylene	25.	ug/l	5.0	1.0	01/14/04 03:17	DLK	95-47-6		
Toluene-d8 (S)	98	%		1.0	01/14/04 03:17	DLK	2037-26-5		
4-Bromofluorobenzene (S)	90	%		1.0	01/14/04 03:17	DLK	460-00-4		
Dibromofluoromethane (S)	100	%		1.0	01/14/04 03:17	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	105	%		1.0	01/14/04 03:17	DLK	17060-07-0		

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Lab Project Number: 9257300
Client Project ID: George Souther 08650 20614

Lab Sample No: 923706584 | Project Sample Number: 9257300-005 | Date Collected: 01/07/04 12:47
Client Sample ID: MW-16 | Matrix: Water | Date Received: 01/09/04 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.0067	mg/l	0.0050	1.0	01/13/04 00:28	LBG	7439-92-1		
Date Digested	01/12/04				01/12/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	ND	ug/l	5.0	1.0	01/14/04 03:46	DLK	71-43-2		
Ethylbenzene	3.1	J ug/l	5.0	1.0	01/14/04 03:46	DLK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	01/14/04 03:46	DLK	1634-04-4		
Naphthalene	2.8	J ug/l	5.0	1.0	01/14/04 03:46	DLK	91-20-3		
Toluene	5.8	ug/l	5.0	1.0	01/14/04 03:46	DLK	108-88-3		
m&p-Xylene	17.	ug/l	10.	1.0	01/14/04 03:46	DLK			
o-Xylene	3.5	J ug/l	5.0	1.0	01/14/04 03:46	DLK	95-47-6		
Toluene-d8 (S)	102	%		1.0	01/14/04 03:46	DLK	2037-26-5		
4-Bromofluorobenzene (S)	92	%		1.0	01/14/04 03:46	DLK	460-00-4		
Dibromofluoromethane (S)	101	%		1.0	01/14/04 03:46	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	103	%		1.0	01/14/04 03:46	DLK	17060-07-0		

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Lab Project Number: 9257300
Client Project ID: George Souther 08650 20614

Lab Sample No: 923706592 | Project Sample Number: 9257300-006 | Date Collected: 01/07/04 18:02
Client Sample ID: MW-17 | Matrix: Water | Date Received: 01/09/04 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.018	mg/l	0.0050	1.0	01/13/04 00:32	LBG	7439-92-1		
Date Digested	01/12/04				01/12/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	ND	ug/l	5.0	1.0	01/14/04 04:15	DLK	71-43-2		
Ethylbenzene	ND	ug/l	5.0	1.0	01/14/04 04:15	DLK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	01/14/04 04:15	DLK	1634-04-4		
Naphthalene	ND	ug/l	5.0	1.0	01/14/04 04:15	DLK	91-20-3		
Toluene	ND	ug/l	5.0	1.0	01/14/04 04:15	DLK	108-88-3		
m&p-Xylene	ND	ug/l	10.	1.0	01/14/04 04:15	DLK			
o-Xylene	ND	ug/l	5.0	1.0	01/14/04 04:15	DLK	95-47-6		
Toluene-d8 (S)	101	%		1.0	01/14/04 04:15	DLK	2037-26-5		
4-Bromofluorobenzene (S)	94	%		1.0	01/14/04 04:15	DLK	460-00-4		
Dibromofluoromethane (S)	100	%		1.0	01/14/04 04:15	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	103	%		1.0	01/14/04 04:15	DLK	17060-07-0		

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Lab Project Number: 9257300
Client Project ID: George Souther 08650 20614

Lab Sample No: 923706600 | Project Sample Number: 9257300-007 | Date Collected: 01/07/04 12:19
Client Sample ID: MW-18 | Matrix: Water | Date Received: 01/09/04 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.0022 J	mg/l	0.0050	1.0	01/13/04 00:37	LBG	7439-92-1		
Date Digested	01/12/04				01/12/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	ND	ug/l	5.0	1.0	01/14/04 10:01	DLK	71-43-2		
Ethylbenzene	ND	ug/l	5.0	1.0	01/14/04 10:01	DLK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	01/14/04 10:01	DLK	1634-04-4		
Naphthalene	4.9 J	ug/l	5.0	1.0	01/14/04 10:01	DLK	91-20-3		
Toluene	ND	ug/l	5.0	1.0	01/14/04 10:01	DLK	108-88-3		
m&p-Xylene	ND	ug/l	10.	1.0	01/14/04 10:01	DLK			
o-Xylene	ND	ug/l	5.0	1.0	01/14/04 10:01	DLK	95-47-6		
Toluene-d8 (S)	97	%		1.0	01/14/04 10:01	DLK	2037-26-5		
4-Bromofluorobenzene (S)	91	%		1.0	01/14/04 10:01	DLK	460-00-4		
Dibromofluoromethane (S)	107	%		1.0	01/14/04 10:01	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	109	%		1.0	01/14/04 10:01	DLK	17060-07-0		

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Lab Project Number: 9257300
Client Project ID: George Souther 08650 20614

Lab Sample No: 923706618 | Project Sample Number: 9257300-008 | Date Collected: 01/07/04 12:02
Client Sample ID: MW-19 | Matrix: Water | Date Received: 01/09/04 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.0035 J	mg/l	0.0050	1.0	01/13/04 00:41	LBG	7439-92-1		
Date Digested	01/12/04				01/12/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	41.	ug/l	5.0	1.0	01/14/04 22:58	DLK	71-43-2		
Ethylbenzene	34.	ug/l	5.0	1.0	01/14/04 22:58	DLK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	01/14/04 22:58	DLK	1634-04-4		
Naphthalene	2.8 J	ug/l	5.0	1.0	01/14/04 22:58	DLK	91-20-3		
Toluene	190	ug/l	5.0	1.0	01/14/04 22:58	DLK	108-88-3		
m&p-Xylene	290	ug/l	10.	1.0	01/14/04 22:58	DLK			
o-Xylene	170	ug/l	5.0	1.0	01/14/04 22:58	DLK	95-47-6		
Toluene-d8 (S)	100	%		1.0	01/14/04 22:58	DLK	2037-26-5		
4-Bromofluorobenzene (S)	92	%		1.0	01/14/04 22:58	DLK	460-00-4		
Dibromofluoromethane (S)	103	%		1.0	01/14/04 22:58	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	106	%		1.0	01/14/04 22:58	DLK	17060-07-0		

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Lab Project Number: 9257300
Client Project ID: George Souther 08650 20614

Lab Sample No: 923706626 | Project Sample Number: 9257300-009 | Date Collected: 01/07/04 12:10
Client Sample ID: MW-20 | Matrix: Water | Date Received: 01/09/04 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.0011 J	mg/l	0.0050	1.0	01/13/04 00:46	LBG	7439-92-1		
Date Digested	01/12/04				01/12/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	ND	ug/l	5.0	1.0	01/14/04 12:25	DLK	71-43-2		
Ethylbenzene	ND	ug/l	5.0	1.0	01/14/04 12:25	DLK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	01/14/04 12:25	DLK	1634-04-4		
Naphthalene	2.7 J	ug/l	5.0	1.0	01/14/04 12:25	DLK	91-20-3		
Toluene	ND	ug/l	5.0	1.0	01/14/04 12:25	DLK	108-88-3		
m&p-Xylene	ND	ug/l	10.	1.0	01/14/04 12:25	DLK			
o-Xylene	ND	ug/l	5.0	1.0	01/14/04 12:25	DLK	95-47-6		
Toluene-d8 (S)	98	%		1.0	01/14/04 12:25	DLK	2037-26-5		
4-Bromofluorobenzene (S)	90	%		1.0	01/14/04 12:25	DLK	460-00-4		
Dibromofluoromethane (S)	118	%		1.0	01/14/04 12:25	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	115	%		1.0	01/14/04 12:25	DLK	17060-07-0		

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Lab Project Number: 9257300
Client Project ID: George Souther 08650 20614

Lab Sample No: 923706634 | Project Sample Number: 9257300-010 | Date Collected: 01/07/04 16:49
Client Sample ID: MW-21 | Matrix: Water | Date Received: 01/09/04 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.0017 J	mg/l	0.0050	1.0	01/13/04 00:50	LBG	7439-92-1		
Date Digested	01/12/04				01/12/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	ND	ug/l	5.0	1.0	01/14/04 12:54	DLK	71-43-2		
Ethylbenzene	ND	ug/l	5.0	1.0	01/14/04 12:54	DLK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	01/14/04 12:54	DLK	1634-04-4		
Naphthalene	ND	ug/l	5.0	1.0	01/14/04 12:54	DLK	91-20-3		
Toluene	ND	ug/l	5.0	1.0	01/14/04 12:54	DLK	108-88-3		
m&p-Xylene	ND	ug/l	10.	1.0	01/14/04 12:54	DLK			
o-Xylene	ND	ug/l	5.0	1.0	01/14/04 12:54	DLK	95-47-6		
Toluene-d8 (S)	98	%		1.0	01/14/04 12:54	DLK	2037-26-5		
4-Bromofluorobenzene (S)	91	%		1.0	01/14/04 12:54	DLK	460-00-4		
Dibromofluoromethane (S)	107	%		1.0	01/14/04 12:54	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	108	%		1.0	01/14/04 12:54	DLK	17060-07-0		

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Lab Project Number: 9257300
Client Project ID: George Souther 08650 20614

Lab Sample No: 923706642 | Project Sample Number: 9257300-011 | Date Collected: 01/07/04 16:43
Client Sample ID: MW-22 | Matrix: Water | Date Received: 01/09/04 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	ND	mg/l	0.0050	1.0	01/13/04 01:05	LBG	7439-92-1		
Date Digested	01/12/04				01/12/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	ND	ug/l	5.0	1.0	01/14/04 13:22	DLK	71-43-2		
Ethylbenzene	ND	ug/l	5.0	1.0	01/14/04 13:22	DLK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	01/14/04 13:22	DLK	1634-04-4		
Naphthalene	ND	ug/l	5.0	1.0	01/14/04 13:22	DLK	91-20-3		
Toluene	ND	ug/l	5.0	1.0	01/14/04 13:22	DLK	108-88-3		
m&p-Xylene	ND	ug/l	10.	1.0	01/14/04 13:22	DLK			
o-Xylene	ND	ug/l	5.0	1.0	01/14/04 13:22	DLK	95-47-6		
Toluene-d8 (S)	100	%		1.0	01/14/04 13:22	DLK	2037-26-5		
4-Bromofluorobenzene (S)	92	%		1.0	01/14/04 13:22	DLK	460-00-4		
Dibromofluoromethane (S)	109	%		1.0	01/14/04 13:22	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	109	%		1.0	01/14/04 13:22	DLK	17060-07-0		

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Lab Project Number: 9257300
Client Project ID: George Souther 08650 20614

Lab Sample No: 923706659 | Project Sample Number: 9257300-012 | Date Collected: 01/07/04 12:37
Client Sample ID: MW-23 | Matrix: Water | Date Received: 01/09/04 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.0038 J	mg/l	0.0050	1.0	01/13/04 01:10	LBG	7439-92-1		
Date Digested	01/12/04				01/12/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	ND	ug/l	5.0	1.0	01/14/04 13:51	DLK	71-43-2		
Ethylbenzene	ND	ug/l	5.0	1.0	01/14/04 13:51	DLK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	01/14/04 13:51	DLK	1634-04-4		
Naphthalene	ND	ug/l	5.0	1.0	01/14/04 13:51	DLK	91-20-3		
Toluene	ND	ug/l	5.0	1.0	01/14/04 13:51	DLK	108-88-3		
m&p-Xylene	ND	ug/l	10.	1.0	01/14/04 13:51	DLK			
o-Xylene	ND	ug/l	5.0	1.0	01/14/04 13:51	DLK	95-47-6		
Toluene-d8 (S)	97	%		1.0	01/14/04 13:51	DLK	2037-26-5		
4-Bromofluorobenzene (S)	92	%		1.0	01/14/04 13:51	DLK	460-00-4		
Dibromofluoromethane (S)	119	%		1.0	01/14/04 13:51	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	117	%		1.0	01/14/04 13:51	DLK	17060-07-0		

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Lab Project Number: 9257300
Client Project ID: George Souther 08650 20614

Lab Sample No: 923706667 | Project Sample Number: 9257300-013 | Date Collected: 01/07/04 14:08
Client Sample ID: MW-24 | Matrix: Water | Date Received: 01/09/04 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.0047 J	mg/l	0.0050	1.0	01/13/04 01:14	LBG	7439-92-1		
Date Digested	01/12/04				01/12/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	ND	ug/l	5.0	1.0	01/14/04 14:20	DLK	71-43-2		
Ethylbenzene	ND	ug/l	5.0	1.0	01/14/04 14:20	DLK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	01/14/04 14:20	DLK	1634-04-4		
Naphthalene	ND	ug/l	5.0	1.0	01/14/04 14:20	DLK	91-20-3		
Toluene	ND	ug/l	5.0	1.0	01/14/04 14:20	DLK	108-88-3		
m&p-Xylene	ND	ug/l	10.	1.0	01/14/04 14:20	DLK			
o-Xylene	ND	ug/l	5.0	1.0	01/14/04 14:20	DLK	95-47-6		
Toluene-d8 (S)	96	%		1.0	01/14/04 14:20	DLK	2037-26-5		
4-Bromofluorobenzene (S)	87	%		1.0	01/14/04 14:20	DLK	460-00-4		
Dibromofluoromethane (S)	113	%		1.0	01/14/04 14:20	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	109	%		1.0	01/14/04 14:20	DLK	17060-07-0		

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Lab Project Number: 9257300
Client Project ID: George Souther 08650 20614

Lab Sample No: 923706675 | Project Sample Number: 9257300-014 | Date Collected: 01/07/04 14:02
Client Sample ID: MW-25 | Matrix: Water | Date Received: 01/09/04 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.0017 J	mg/l	0.0050	1.0	01/13/04 01:19	LBG	7439-92-1		
Date Digested	01/12/04				01/12/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	ND	ug/l	5.0	1.0	01/14/04 14:49	DLK	71-43-2		
Ethylbenzene	ND	ug/l	5.0	1.0	01/14/04 14:49	DLK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	01/14/04 14:49	DLK	1634-04-4		
Naphthalene	ND	ug/l	5.0	1.0	01/14/04 14:49	DLK	91-20-3		
Toluene	ND	ug/l	5.0	1.0	01/14/04 14:49	DLK	108-88-3		
m&p-Xylene	ND	ug/l	10.	1.0	01/14/04 14:49	DLK			
o-Xylene	ND	ug/l	5.0	1.0	01/14/04 14:49	DLK	95-47-6		
Toluene-d8 (S)	100	%		1.0	01/14/04 14:49	DLK	2037-26-5		
4-Bromofluorobenzene (S)	88	%		1.0	01/14/04 14:49	DLK	460-00-4		
Dibromofluoromethane (S)	113	%		1.0	01/14/04 14:49	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	118	%		1.0	01/14/04 14:49	DLK	17060-07-0		

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Lab Project Number: 9257300
Client Project ID: George Souther 08650 20614

Lab Sample No: 923706733 | Project Sample Number: 9257300-020 | Date Collected: 01/08/04 15:42
Client Sample ID: RW-1 | Matrix: Water | Date Received: 01/09/04 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.056	mg/l	0.0050	1.0	01/12/04 23:32	LBG	7439-92-1		
Date Digested	01/09/04				01/09/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	8000	ug/l	1000	200	01/15/04 02:50	DLK	71-43-2		
Ethylbenzene	1800	ug/l	100	20.0	01/15/04 02:50	DLK	100-41-4		
Methyl-tert-butyl ether	1800	ug/l	100	20.0	01/15/04 02:50	DLK	1634-04-4		
Naphthalene	400	ug/l	100	20.0	01/15/04 02:50	DLK	91-20-3		
Toluene	15000	ug/l	1000	200	01/15/04 02:50	DLK	108-88-3		
m&p-Xylene	6800	ug/l	200	20.0	01/15/04 02:50	DLK			
o-Xylene	2900	ug/l	100	20.0	01/15/04 02:50	DLK	95-47-6		
Toluene-d8 (S)	95	%		1.0	01/15/04 02:50	DLK	2037-26-5		
4-Bromofluorobenzene (S)	90	%		1.0	01/15/04 02:50	DLK	460-00-4		
Dibromofluoromethane (S)	106	%		1.0	01/15/04 02:50	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	107	%		1.0	01/15/04 02:50	DLK	17060-07-0		

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Lab Project Number: 9257300
Client Project ID: George Souther 08650 20614

Lab Sample No: 923706741 | Project Sample Number: 9257300-021 | Date Collected: 01/08/04 16:34
Client Sample ID: PW-2 | Matrix: Water | Date Received: 01/09/04 10:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
Metals									
Metals by Trace ICP	Prep/Method: EPA 3010 / EPA 6010								
Lead	0.0073	mg/l	0.0050	1.0	01/12/04 23:37	LBG	7439-92-1		
Date Digested	01/09/04				01/09/04				
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA 8260								
Benzene	1900	ug/l	100	20.0	01/15/04 03:18	DLK	71-43-2		
Ethylbenzene	ND	ug/l	5.0	1.0	01/15/04 03:18	DLK	100-41-4		
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	01/15/04 03:18	DLK	1634-04-4		
Naphthalene	98.	ug/l	5.0	1.0	01/15/04 03:18	DLK	91-20-3		
Toluene	3.0	J ug/l	5.0	1.0	01/15/04 03:18	DLK	108-88-3		
m&p-Xylene	160	ug/l	10.	1.0	01/15/04 03:18	DLK			
o-Xylene	430	ug/l	100	20.0	01/15/04 03:18	DLK	95-47-6		
Toluene-d8 (S)	97	%		1.0	01/15/04 03:18	DLK	2037-26-5		
4-Bromofluorobenzene (S)	95	%		1.0	01/15/04 03:18	DLK	460-00-4		
Dibromofluoromethane (S)	110	%		1.0	01/15/04 03:18	DLK	1868-53-7		
1,2-Dichloroethane-d4 (S)	113	%		1.0	01/15/04 03:18	DLK	17060-07-0		

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Lab Project Number: 9257300
Client Project ID: George Souther 08650 20614

PARAMETER FOOTNOTES

Dilution factor shown represents the factor applied to the reported result and reporting limit due to changes in sample preparation, dilution of the extract, or moisture content

Inorganic Wet Chemistry and Metals Analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Charlotte laboratory unless otherwise footnoted.

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
(S)	Surrogate

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QUALITY CONTROL DATA

Lab Project Number: 9257300
Client Project ID: George Souther 08650 20614

QC Batch: 89027 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: GC/MS VOCs by 8260
Associated Lab Samples: 923706543 923706550 923706568 923706576 923706584 923706592

METHOD BLANK: 923717896
Associated Lab Samples: 923706543 923706550 923706568 923706576 923706584 923706592

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Benzene	ug/l	ND	5.0	
Ethylbenzene	ug/l	ND	5.0	
Methyl-tert-butyl ether	ug/l	ND	5.0	
Naphthalene	ug/l	2.9	5.0	
Toluene	ug/l	ND	5.0	
m&p-Xylene	ug/l	ND	10.	
o-Xylene	ug/l	ND	5.0	
Toluene-d8 (S)	%	99		
4-Bromofluorobenzene (S)	%	90		
Dibromofluoromethane (S)	%	105		
1,2-Dichloroethane-d4 (S)	%	101		

LABORATORY CONTROL SAMPLE: 923717904

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Benzene	ug/l	50.00	48.09	96	
Ethylbenzene	ug/l	50.00	45.23	90	
Methyl-tert-butyl ether	ug/l	50.00	51.72	103	
Naphthalene	ug/l	50.00	38.70	77	
Toluene	ug/l	50.00	48.49	97	
m&p-Xylene	ug/l	100.00	88.42	88	
o-Xylene	ug/l	50.00	42.97	86	
Toluene-d8 (S)				101	
4-Bromofluorobenzene (S)				89	
Dibromofluoromethane (S)				102	
1,2-Dichloroethane-d4 (S)				109	

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QUALITY CONTROL DATA

Lab Project Number: 9257300
Client Project ID: George Souther 08650 20614

MATRIX SPIKE: 923717912

Parameter	Units	923688600 Result	Spike Conc.	MS Result	MS % Rec	Footnotes
Benzene	ug/l	0	50.00	47.85	96	
Toluene	ug/l	0	50.00	47.51	95	
Toluene-d8 (S)					101	
4-Bromofluorobenzene (S)					89	
Dibromofluoromethane (S)					102	
1,2-Dichloroethane-d4 (S)					109	

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QUALITY CONTROL DATA

Lab Project Number: 9257300
Client Project ID: George Souther 08650 20614

QC Batch: 89029 — Analysis Method: EPA 8260
QC Batch Method: EPA 8260 — Analysis Description: GC/MS VOCs by 8260
Associated Lab Samples: 923706600 923706618 923706626 923706634 923706642 923706659 923706667 923706675 923706683 923706691

METHOD BLANK: 923718050
Associated Lab Samples: 923706600 923706618 923706626 923706634 923706642 923706659 923706667 923706675 923706683 923706691

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Benzene	ug/l	ND	5.0	
Ethylbenzene	ug/l	ND	5.0	
Methyl-tert-butyl ether	ug/l	ND	5.0	
Naphthalene	ug/l	2.9	5.0	
Toluene	ug/l	ND	5.0	
m&p-Xylene	ug/l	ND	10.	
o-Xylene	ug/l	ND	5.0	
Toluene-d8 (S)	%	98		
4-Bromofluorobenzene (S)	%	89		
Dibromofluoromethane (S)	%	110		
1,2-Dichloroethane-d4 (S)	%	107		

LABORATORY CONTROL SAMPLE: 923718068

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Benzene	ug/l	50.00	47.79	96	
Ethylbenzene	ug/l	50.00	47.20	94	
Methyl-tert-butyl ether	ug/l	50.00	49.00	98	
Naphthalene	ug/l	50.00	36.92	74	
Toluene	ug/l	50.00	48.22	96	
m&p-Xylene	ug/l	100.00	93.08	93	
o-Xylene	ug/l	50.00	45.46	91	
Toluene-d8 (S)				98	
4-Bromofluorobenzene (S)				92	
Dibromofluoromethane (S)				105	
1,2-Dichloroethane-d4 (S)				113	

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QUALITY CONTROL DATA

Lab Project Number: 9257300
Client Project ID: George Souther 08650 20614

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 923718076 923718084

Parameter	Units	923706832 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Benzene	ug/l	0	50.00	48.82	49.80	98	100	2	
Toluene	ug/l	0	50.00	47.56	49.07	95	98	3	
Toluene-d8 (S)						98	102		
4-Bromofluorobenzene (S)						95	93		
Dibromofluoromethane (S)						101	109		
1,2-Dichloroethane-d4 (S)						116	115		

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QUALITY CONTROL DATA

Lab Project Number: 9257300
Client Project ID: George Souther 08650 20614

QC Batch: 89117 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: GC/MS VOCs by 8260
Associated Lab Samples: 923706709 923706717 923706725 923706733 923706741

METHOD BLANK: 923722888
Associated Lab Samples: 923706709 923706717 923706725 923706733 923706741

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Benzene	ug/l	ND	5.0	
Ethylbenzene	ug/l	ND	5.0	
Methyl-tert-butyl ether	ug/l	ND	5.0	
Naphthalene	ug/l	ND	5.0	
Toluene	ug/l	ND	5.0	
m&p-Xylene	ug/l	ND	10.	
o-Xylene	ug/l	ND	5.0	
Toluene-d8 (S)	%	99		
4-Bromofluorobenzene (S)	%	89		
Dibromofluoromethane (S)	%	108		
1,2-Dichloroethane-d4 (S)	%	107		

LABORATORY CONTROL SAMPLE: 923722896

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Benzene	ug/l	50.00	47.32	95	
Ethylbenzene	ug/l	50.00	45.32	91	
Methyl-tert-butyl ether	ug/l	50.00	44.77	90	
Naphthalene	ug/l	50.00	39.72	79	
Toluene	ug/l	50.00	45.92	92	
m&p-Xylene	ug/l	100.00	89.21	89	
o-Xylene	ug/l	50.00	43.65	87	
Toluene-d8 (S)				98	
4-Bromofluorobenzene (S)				92	
Dibromofluoromethane (S)				100	
1,2-Dichloroethane-d4 (S)				108	

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QUALITY CONTROL DATA

Lab Project Number: 9257300
Client Project ID: George Souther 08650 20614

QC Batch: 88808 — Analysis Method: EPA 6010
QC Batch Method: EPA 3010 — Analysis Description: Metals by Trace ICP
Associated Lab Samples: 923706543 923706550 923706568 923706576 923706584 923706592 923706600 923706618 923706626 923706634 923706642 923706659 923706667 923706675 923706683 923706691 923706709 923706717 923706725

METHOD BLANK: 923707343
Associated Lab Samples: 923706543 923706550 923706568 923706576 923706584 923706592 923706600 923706618 923706626 923706634 923706642 923706659 923706667 923706675 923706683 923706691 923706709 923706717 923706725

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Lead	mg/l	0.0013	0.0050	

LABORATORY CONTROL SAMPLE: 923707350

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Lead	mg/l	0.5000	0.4160	83	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 923707368 923707376

Parameter	Units	923706543 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Lead	mg/l	0.04870	0.5000	0.5370	0.5260	98	96	2	

SAMPLE DUPLICATE: 923707384

Parameter	Units	923706550 Result	DUP Result	RPD	Footnotes
Lead	mg/l	0.00240	0.00210	0	

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QUALITY CONTROL DATA

Lab Project Number: 9257300
Client Project ID: George Souther 08650 20614

QC Batch: 88884 — Analysis Method: EPA 6010
QC Batch Method: EPA 3010 — Analysis Description: Metals by Trace ICP
Associated Lab Samples: 923706733 923706741

METHOD BLANK: 923711907
Associated Lab Samples: 923706733 923706741

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Lead	mg/l	0.0017	0.0050	

LABORATORY CONTROL SAMPLE: 923711915

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Lead	mg/l	0.5000	0.4760	95	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 923711923 923711931

Parameter	Units	923706733 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	RPD	Footnotes
Lead	mg/l	0.05570	0.5000	0.5340	0.5320	96	95	0	

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Lab Project Number: 9257300
Client Project ID: George Souther 08650 20614

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
(S)	Surrogate

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www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 2

786787

Required Client Information: Section A

Company: SC DHEC
Address: 2600 Bull St
Columbia SC
Phone:
Fax:

Required Client Information: Section B

Report To: D. Thoma
Copy To:
Invoice To: Finance
P.O. 463276
Project Name: George Souther
Project Number: 08650 20614

Client Information (Check quote/contract):
Requested Due Date:
*TAT:

* Turn around times less than 14 days subject to laboratory and contractual obligations and may result in a Rush Turnaround Surcharge.
Turn Around Time (TAT) in calendar days.

To Be Completed by Pace Analytical and Client: Section C

Quote Reference:
Project Manager:
Project #: 9257300
Profile #: 1700 1

Section D Required Client Information:

SAMPLE ID
One character per box.
(A–Z, 0–9 / .–)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
WATER	WT
SOIL	SL
OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
OTHER	OT

ITEM #	SAMPLE ID	MATRIX CODE	DATE COLLECTED mm / dd / yy	TIME COLLECTED hh: mm a/p	# Containers	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	BTEX	MTBE	Naphthalene	Pb	Remarks / Lab ID
1	MW-12	WT	1/7/04	1732	4			1	3					1	1	1	1	9123706593
2	MW-13	"	1/7/04	1624	4			1	3					1	1	1	1	9123706550
3	MW-14	"	"	1610	4			1	3					1	1	1	1	9123706568
4	MW-15	"	"	1618	4			1	3					1	1	1	1	9123706576
5	MW-16	"	"	1247	4			1	3					1	1	1	1	9123706584
6	MW-17	"	"	1802	4			1	3					1	1		1	9123706592
7	MW-18	"	"	1219	4			1	3					1	1		1	9123706600
8	MW-19	"	"	1202	4			1	3					1	1	1	1	9123706619
9	MW-20	"	"	1210	4			1	3					1	1	1	1	9123706626
10	MW-21	"	"	1649	4			1	3					1	1	1	1	9123706634
11	MW-22	"	"	1643	4			1	3					1	1	1	1	9123706642
12	MW-23	"	"	1237	4			1	3					1	1	1	1	9123706659

SITE LOCATION
☐ NC ☐ SC ☐ GA
☐ Other_____

REGULATORY AGENCY
☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ Other_____

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
James Tan/J.A. Jones	1/8	1930	[illegible]	1-10	1000

SAMPLE CONDITION

Temp in °C	0.2
Received on Ice	Y/N
Sealed Cooler	Y/N
Samples Intact	Y/N

SAMPLE NOTES

Additional Comments:

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: James Tan
SIGNATURE of SAMPLER:
DATE Signed: (MM / DD / YY) 1/8/04

SEE REVERSE SIDE FOR INSTRUCTIONS

Form COC01 Rev. 0903

Instructions for completing Chain of Custody (COC)

1. Complete all Client Information at top of sheet: name, address, phone, contact (person to whom report will be sent and contact can be made if questions arise), billing information if different from client, PO#, Project Name and/or Project Number as it will appear on the report.

2. Quote Reference, Project Manager, Project No. and Profile No. will be completed by Pace.

3. A separate COC must be filled out for each day of sample collection.

4. Sampler should print their name in the space provided and sign their name followed by the date of the sampling event.

5. Complete Sample Description as it will appear on the laboratory report; include time of sampling, sample matrix, no. of containers and preservative used.

6. Analysis Requested: Complete analysis on the lines provided and place a check in the column for the samples requiring the analysis. It may be necessary to use the space provided for additional comments or include attachments for extended lists of parameters.

7. Submission of samples to laboratory: Indicate Item Number of those samples being transferred; sign relinquished by, and include your affiliation.

*** IMPORTANT NOTE:**

Standard Turnaround Time is 2 weeks. If this does not satisfy your requirements, arrangements must be made prior to samples being submitted to the laboratory. Contact your project manager.

Special Project Requirements such as Low Level Detection Limits or level of QC reported must be indicated on the chain of custody. (Use Additional Comments Section.)

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Page: 2 of 2

786788

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P.O. 463276
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OIL	OL
WIPE	WP
AIR	AR
TISSUE	TS
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2	MW-25	"	"	1402	4			1	3					1	1	1	1	923706625
3	MW-7	"	"	1419	4			1	3					1	1	1	1	923706603
4	MW-1	"	1/8/04	1229	4			1	3					1	1	1	1	923706691
5	MW-3	"	"	1331	4			1	3					1	1	1	1	923706709
6	MW-4	"	"	1429	4			1	3					1	1	1	1	923706717
7	MW-9	"	"	1218	4			1	3					1	1	1	1	923706725
8	RW-1	"	"	1542	4			1	3					1	1	1	1	923706733
9	PW-2	"	"	1634	4			1	3					1	1	1	1	923706741
10																		
11																		
12																		

SITE LOCATION	REGULATORY AGENCY
☐ NC ☐ SC ☐ GA	☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ Other_____	☐ UST ☐ RCRA ☐ Other_____

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George Souther (permit # 08650)

Historic Chronology (based on file review)

Date	Activity
	PM: Art Shrader
Dec-91	Release reproted
Aug-92	Expanded Assessment Plan (EAP) received
Feb-93	"No insurance" form received
Mar-93	SUPERB qualified, amnesty
Apr-93	EAP approved for implementation
Jun-93	Soil CAP submittal directed
Aug-93	Soil CAP recieived / soil was clean, therefore, no disposal needed
Aug-93	SPATCO cc Access requests
Oct-93	SPATCO report of failed access attempts
Nov-93	DHEC letters sent requesting access
Nov-93	2 of 3 access agreements received
Jan-94	SUSPEND DIRECT BILLING
Feb-94	LandRec requests approval of soil disposal
Feb-94	Deny disposal of stockpile, approve disposal of 2 drums
Mar-94	Receive EA update (work to date at time of suspension)
Jun-94	Deny request to reconsider request for payment of stockpile disposal
Nov-94	Deny lab payment based on non-certification
Oct-96	Rank 3B, direct Rapid Assessment (RA)
	PM: Shriram Madabushi
May-97	Approve RA cost agreement
Jan-98	RA report received
Jun-98	RA addendum directed
Oct-98	RA additional report received
May-99	Request for resampling received from NESCO (absence of further correspondence indicates denial)
	PM: Paula Anderson
Oct-01	Tier II plan submittal directed
Nov-01	NESCO request assistance obtaining access
Jan-02	Six 'first' access request letters sent by DHEC
Mar-02	Five 'second' access request letters sent by DHEC
Mar-02	Four access agreements received
Sep-02	Screening data received for review
Nov-02	Tier II report received
Dec-02	Tier II additional assessment CP
Apr-02	Tier II addendum directed
Jul-03	Screening data received for review
Aug-03	Additional Assessment Report received
Oct-03	State-Lead Form received
	PM: Karen Doran
20-Nov-03	AFVR directed
21-Nov-03	Sampling event directed
26-Nov-03	Air model received

PROGRAM
DOCKETING # 077

George Souther (permit # 08650)

Historic Chronology (based on file review)

Date	Activity
5-Dec-03	AFVR proceed sent
17-Jan-04	Analytical report received (sampled 1/7-8/2004)
27-Feb-04	AFVR report received (done 2/18)
5-Mar-04	Sampling event directed
23-Apr-04	Analytical report received
4-May-04	Notice to O/O that state contractor will install deep well
5-Feb-05	Directive to install deep well

Fuss & O'Neill Inc. *Consulting Engineers*

1419 Richland Street, Columbia, SC 29201
TEL 803 376-6034 FAX 803 376-6035
INTERNET: www.fussandoneill.com

Other Offices:
Manchester, Connecticut
West Springfield, Massachusetts
Trumbull, Connecticut
Providence, Rhode Island
Greenville, North Carolina

August 14, 2003

Ms. Paula Anderson
SCDHEC UST Division
2600 Bull Street
Columbia, SC 29260

Re: Souther's Grocery
Cost Agreement #18319
SCDHEC Site ID #08650
FandO Project No. 2003315.A10

RECEIVED
AUG 25 2003
UNDERGROUND STORAGE TANK PROGRAM

Dear Ms Anderson:

Please find enclosed a copy of the Additional Assessment Report conducted on the above mentioned site.

If you have any questions or concerns regarding this report, please call me at (803) 376-6034 or e-mail me at bdefee@fando.com.

Sincerely,
Fuss & O'Neill

Brad Defee
Staff Scientist

UST DOCKET 08T

Enclosure: Additional Assessment Report

RECEIVED

AUG 2 5 2003

UNDERGROUND STORAGE
TANK PROGRAM

ADDITIONAL ASSESSMENT REPORT

SOUTHER'S GROCERY
Campobello, South Carolina

8/14/03

UST Permit # 08650

Additional Assessment Report
Souther's Grocery

TABLE OF CONTENTS

SECTION		PAGE
1.0	INTRODUCTION	1
2.0	FIELD SCREENING	1
3.0	MONITORING WELL INSTALLATION	2
4.0	GROUNDWATER SAMPLE COLLECTION	2
5.0	RECOMMENDATIONS	3

TABLES — **END OF REPORT**

Table 1: Summary of Groundwater Elevations
Table 2: Summary of Groundwater Analytical Results
Table 3: Summary of Sampling Parameters

FIGURES — **END OF REPORT**

Figure 1: Site Location Map (USGS 7.5" Topographic Series)
Figure 2: Site Map & Field Screening Location Map
Figure 3: Potentiometric Map (Data collected 7/17/03)
Figure 4: Groundwater CoC Map (Data collected 7/17&18/03)

APPENDICES — **END OF REPORT**

A Soil Boring and Monitoring Well Logs
B Laboratory Analytical Results
C Soil and Groundwater Disposal Manifest

1.0 INTRODUCTION

Subject Site:
Souther's Grocery
SC Hwy 4275 & 4276 (Goodjoin Rd. & Mt. Lebanon Rd.)
Campobello, South Carolina
Spartanburg County
UST Permit #08650

SCDHEC responsible party:
Mr. George Souther
280 Goodjoin Rd.
Campobello, SC 29322-9187

This assessment was conducted by:
Fuss & O'Neill, Inc.
1419 Richland Street
Columbia, South Carolina 29201
Phone: 803-376-6034

Fuss & O'Neill, Inc. submits the following additional assessment report on Behalf of Mr. George Souther for the subject site. Fuss & O'Neill has performed this scope of work in accordance with the South Carolina Department of Health and Environmental Control (SCDHEC) approved Cost Proposal #18319. The results of the work completed are presented in the narrative below and the accompanying figures and tables. A site location map is included as Figure 1 and a site map and field screening location map is included as Figure 2.

2.0 FIELD SCREENING

On July 9, 2003, Fuss & O'Neill personnel and their subcontractor bored eight field screening borings (FS-1 through FS-8) to the shallow groundwater table and field screened for organic vapor content using a photoionization detector (PID). Organic vapor was measured at soil borings FS-1 through FS-8 and the results are presented in the table below. All results are expressed in parts per million. Boring logs are located in Appendix A. Field screening locations are presented in Figure 2. Investigative derived waste was properly disposed of by Global Environmental Assurance, Inc. A disposal manifest is located in Appendix C. .

Depth	FS-1	FS-2	FS-3	FS-4	FS-5	FS-6	FS-7	FS-8
4'	1.9	0	0	0	0	0	0	0
8'	1.3	0.5	0	0	0	0	0	0
12'	158	0	0	0	0	0	0	0
16'	1318	8.2	0	1.5	0	0	0	0
20'				312	0			
24'					0			

3.0 MONITORING WELL INSTALLATION

On July 15, 2003 Fuss & O'Neill personnel oversaw the installation of monitoring wells MW-21 through monitoring well MW-25. The Monitoring wells were drilled by Palmetto Drilling Inc., (S.C. driller license # 969). Drill cutting were screened for organic vapor with a Photoionization Detector (PID). No organic vapor was above the detection limits of the PID. Drill cuttings from these wells were scattered on site. After installation of the new monitoring wells, a subsequent survey was conducted to identify the top of casing elevations and horizontal locations of the new well. Boring logs for the monitoring wells are located in Appendix A.

4.0 GROUNDWATER SAMPLE COLLECTION

Fuss & O'Neill personnel gauged water levels and collected groundwater samples from the monitor well network at the site on July 17 and 18, 2003. Free phase petroleum hydrocarbons were detected in monitoring wells MW-8 and MW-11 at a thickness of 0.28 feet and 0.25 feet respectively. Monitoring well MW-6 was not located during this phase of work. Time was spent and a metal detector was used to locate MW-6 however these attempts yielded no results. Water table measurements and groundwater elevations are summarized in Table 1.

Based upon the July 17, 2003 groundwater elevations, a potentiometric map was constructed and is displayed as Figure 3. Shallow groundwater flow at the site during this and previous investigations trends to the east towards the supply well located 600 feet east of Souther's Grocery.

The groundwater samples were collected using disposable polyethylene bailers dedicated for each well. Care was taken throughout the procedure to avoid cross contamination. During the sampling, steps were taken to limit the agitation of the groundwater samples and to prevent aeration. All sample containers were precleaned and provided by the analytical laboratory. Samples were kept at approximately four degrees centigrade throughout the operation and during transport to Shealy Environmental Services, Inc. Chains of custody were maintained and documented during the shipping and handling process to insure sample integrity.

The groundwater samples in all monitoring wells were analyzed for concentrations of benzene, toluene, ethylbenzene, xylenes (BTEX), naphthalene, and methyl tertiary butyl ether (MTBE). These results are displayed on Figure 4 and summarized in Table 2. A summary of the field sampling parameters is included in Table 3. Laboratory analytical results are located in Appendix B. Purge water was properly disposed of by Global Environmental Assurance, Inc. A disposal manifest is located in Appendix C.

5.0 RECOMMENDATIONS

Based on the findings of this report Fuss & O'Neill recommends that a corrective action plan be developed for the Souther's Grocery site.

Brad Defee
Staff Scientist

Jeremy Grant, P.G.
Senior Environmental Geologist
S.C. Reg. #2259

TABLES

Souther's Grocery

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
FORMER MACK'S CAMP
EADYTOWN, SC

MONITOR WELL	DATE MEASURED	TOC ELEVATION	TOC to PL	TOC to WL	PRODCUCT THICKNESS	WL ELEVATION
RW-1	07/17/03	96.29	ND	10.81	ND	85.48
MW-1	07/17/03	96.5	ND	10.98	ND	85.52
MW-2	07/17/03	99.98	ND	15.08	ND	84.90
MW-3	07/17/03	97.02	ND	12.09	ND	84.93
MW-4	07/17/03	91.37	ND	6.74	ND	84.63
MW-5	07/17/03	93.54	ND	9.09	ND	84.45
MW-6	07/17/03	92.10	NL	NL	NL	NL
MW-7	07/17/03	95.40	ND	9.85	ND	85.55
MW-8	07/17/03	99.71	**13.62**	13.90	**0.28**	NA
MW-9	07/17/03	100.00	ND	15.59	ND	84.41
MW-10	07/17/03	89.99	ND	3.68	ND	86.31
MW-11	07/17/03	96.81	**9.75**	10.00	**0.25**	NA
MW-12	07/17/03	94.64	ND	11.77	ND	82.87
MW-13	07/17/03	89.36	ND	4.13	ND	85.23
MW-14	07/17/03	86.13	ND	3.75	ND	82.38
MW-15	07/17/03	87.34	ND	2.74	ND	84.60
MW-16	07/17/03	98.91	ND	12.22	ND	86.69
MW-17	07/17/03	94.55	ND	9.80	ND	84.75
MW-18	07/17/03	101.00	ND	18.37	ND	82.63
MW-19	07/17/03	104.73	ND	19.22	ND	85.51
MW-20	07/17/03	106.90	ND	20.95	ND	85.95
MW-21	07/17/03	89.39	ND	4.76	ND	84.63
MW-22	07/17/03	93.05	ND	6.60	ND	86.45
MW-23	07/17/03	99.43	ND	12.69	ND	86.74
MW-24	07/17/03	89.60	ND	5.74	ND	83.86
MW-25	07/17/03	90.59	ND	5.37	ND	85.22
PW-1	07/17/03	97.96	ND	10.63	ND	87.33
PW-2	07/17/03	97.59	ND	12.84	ND	84.75

NOTES: Measurements in feet
TOC = Top of Casing
WL = Water Level
PL = Free Product Level
ND = Not Detected
NL = Not Located
NA = Not Applicable

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
SOUTHER'S GROCERY
CAMPOBELLO, SC

MONITOR WELL	DATE COLLECTED	BENZENE (ug/l)	TOLUENE (ug/l)	ETHYL-BENZENE (ug/l)	TOTAL XYLENES (ug/l)	NAPH-THALENE (ug/l)	MTBE (ug/l)
RW-1	07/17/03	**13000**	**14000**	**2100**	**14000**	**1500**	<500
MW-1	07/18/03	**49000**	**180000**	**31000**	**180000**	**23000**	**9600**
MW-2	07/18/03	**43000**	**62000**	**5000**	**27000**	**7600**	**7600**
MW-3	07/18/03	**44000**	**60000**	**4200**	**24000**	**7100**	<2500
MW-4	07/18/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-5	07/18/03	**46000**	**92000**	**13000**	**86000**	**22000**	<5000
MW-6	NA	NL	NL	NL	NL	NL	NL
MW-7	07/18/03	**36000**	**75000**	**5300**	**30000**	**8600**	<2500
MW-8	NA	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-9	07/17/03	**28000**	**23000**	**1500**	9500	**1500**	<500
MW-10	07/18/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-11	NA	**FP**	**FP**	**FP**	**FP**	**FP**	**FP**
MW-12	07/17/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-13	07/18/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-14	07/17/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-15	07/18/03	**130**	<5.0	<5.0	63	<5.0	<5.0
MW-16	07/18/03	<5.0	27	20	95	<5.0	<5.0
MW-17	07/17/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-18	07/17/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-19	07/17/03	**18**	88	55	290	<5.0	<5.0
MW-20	07/17/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-21	07/17/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-22	07/17/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-23	07/17/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-24	07/18/03	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
MW-25	07/18/03	**6.2**	130	55	250	**26**	<5.0
PW-1	07/17/03	**1100**	<5.0	7.6	30	24	<5.0
PW-2	07/17/03	<5.0	<5.0	<5.0	<5.0	15	<5.0
RBSLs		5	1000	700	10000	25	40

NOTES: **Bolded Values** Exceed Risk-Based Screening Levels (RBSLs)
NA = Not Applicable
MTBE = Methyl Tertiary Butyl Ether
FP = Free Product
NL = Not Located

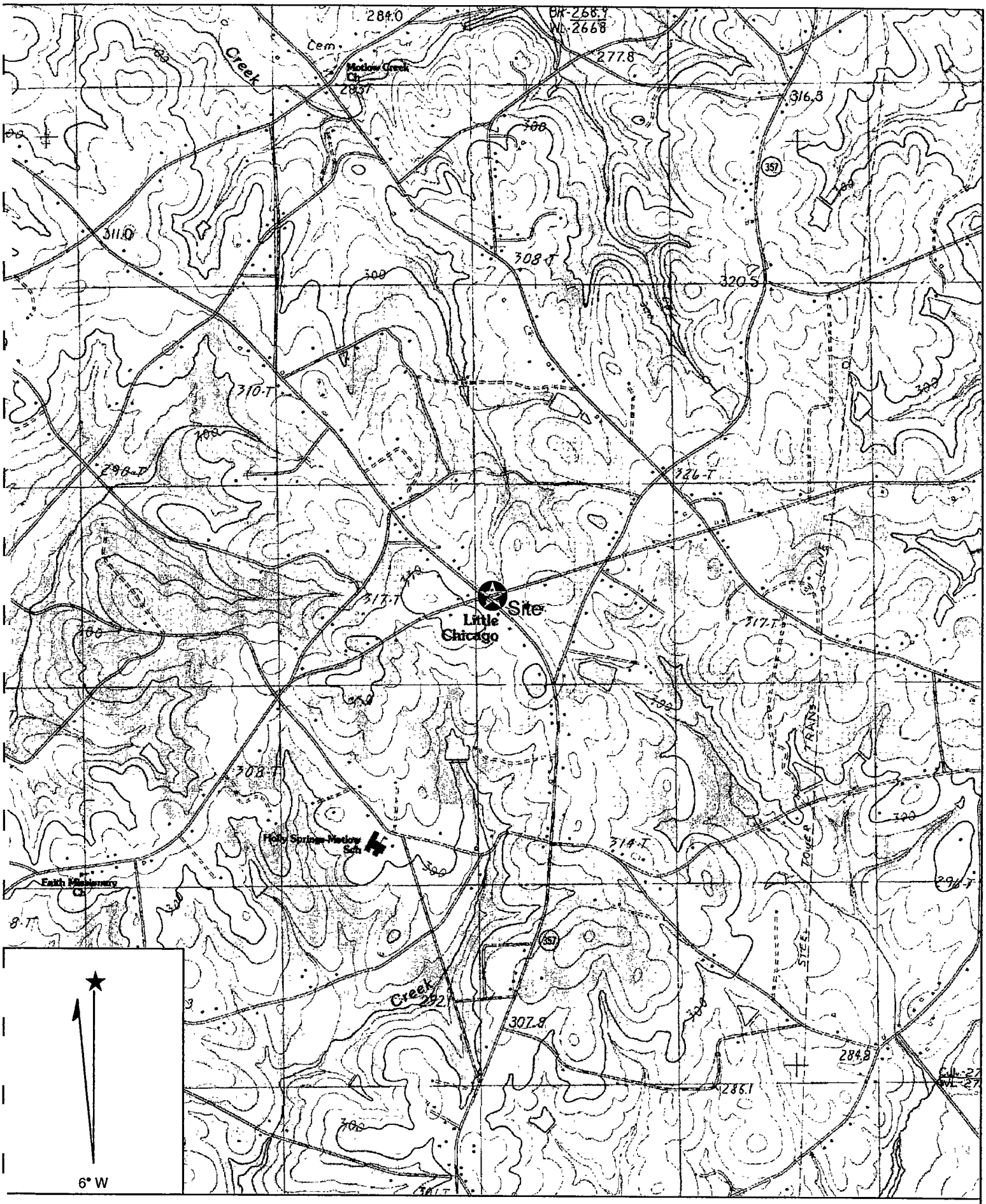
TABLE 3
SUMMARY OF SAMPLING PARAMETERS
SOUTHER'S GROCERY
CAMPOBELLO, SC

MONITOR WELL	DATE MEASURED	D.O. (ppm)	TEMP. (C^{O})	pH	COND. (ms/m)
RW-1	07/17/03	0.75	22.7	5.6	24.600
MW-1	07/18/03	0.9	23.7	5.6	25.700
MW-2	07/18/03	0.81	21.9	6.2	26.800
MW-3	07/18/03	1.7	27.3	5.7	19.80
MW-4	07/18/03	1.1	20.9	5.6	22.30
MW-5	07/18/03	1.5	22.7	5.4	25.70
MW-6	NA	NS	NS	NS	NS
MW-7	07/18/03	1.7	22.3	6.2	26.60
MW-8	NA	NS	NS	NS	NS
MW-9	07/17/03	1.9	22.2	6	20.00
MW-10	07/18/03	2.20	23.0	6.00	19.70
MW-11	NA	NS	NS	NS	NS
MW-12	07/17/03	1.50	20.7	5.40	29.70
MW-13	07/18/03	1.70	19.8	5.20	28.90
MW-14	07/17/03	2.00	19.7	5.70	19.80
MW-15	07/18/03	2.30	19.8	5.80	19.70
MW-16	07/18/03	3.30	24.7	5.80	19.80
MW-17	07/17/03	4.00	19.7	6.20	22.30
MW-18	07/17/03	2.50	20.3	6.10	29.70
MW-19	07/17/03	4.60	24.7	6.30	29.30
MW-20	07/17/03	3.30	19.9	5.90	23.40
MW-21	07/17/03	2.70	18.7	5.70	24.30
MW-22	07/17/03	1.70	22.3	5.40	25.70
MW-23	07/17/03	3.00	23.4	5.30	27.60
MW-24	07/18/03	2.70	22.2	6.10	26.30
MW-25	07/18/03	1.80	21.9	5.80	20.90
PW-1	07/17/03	4.50	18.7	5.90	35.60
PW-2	07/17/03	5.50	17.9	6.00	29.40

NOTES: D.O. = Dissolved Oxygen
TEMP. = Temperature
COND. = Conductivity
NS = Not Sampled

FIGURES

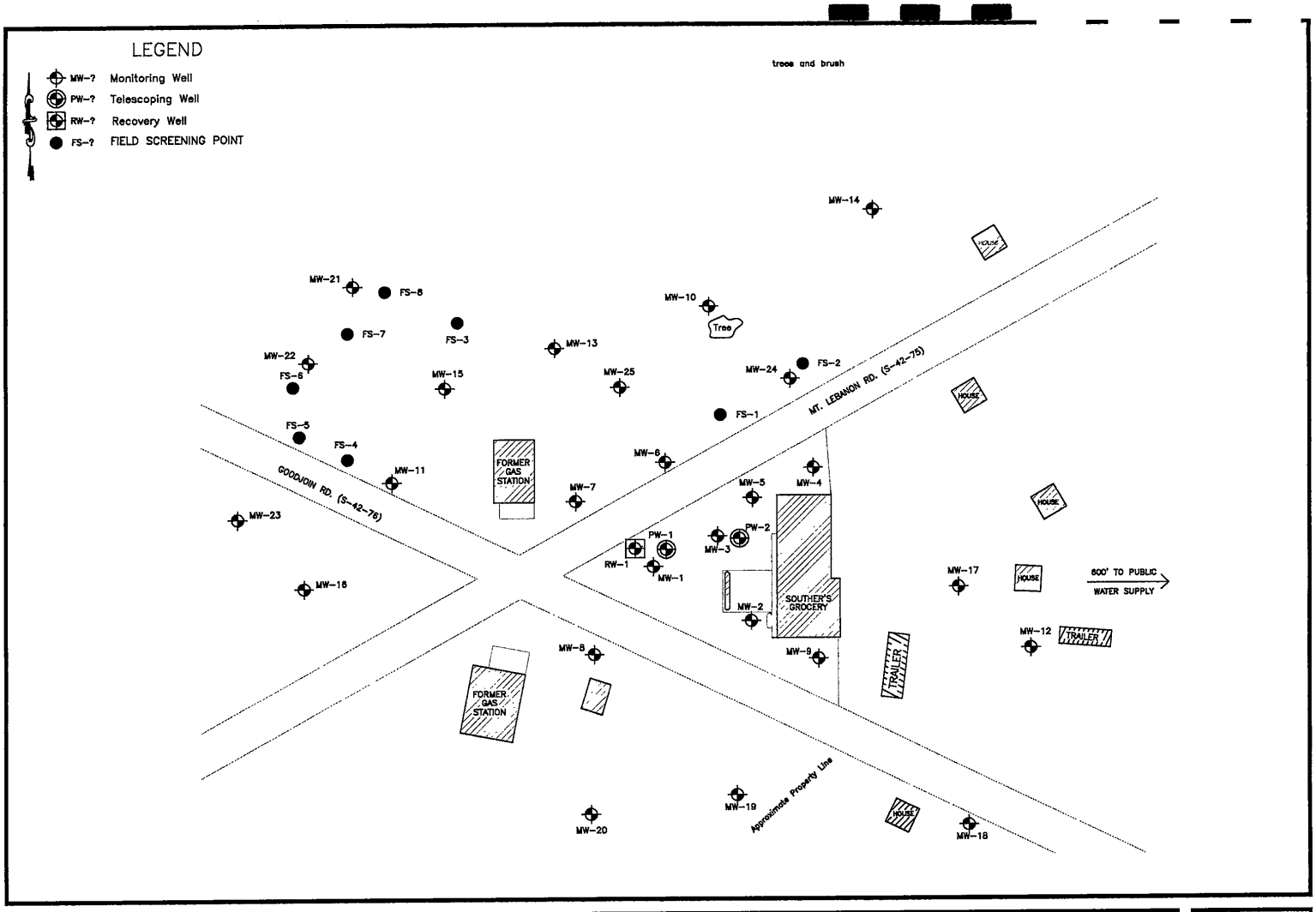
Souther's Grocery



Name: CAMPOBELLO
Date: 8/6/2003
Scale: 1 inch equals 2000 feet

Location: 035° 03' 45.1" N 082° 11' 00.9" W
Caption: Figure 1 Site Location map
Souther's Grocery
UST Permit # 08650

Copyright (C) 1997, Maptech, Inc.



SCALE:	
HORZ.: 1" = 90'	
VERT.:	
DATUM:	
HORZ.:	
VERT.:	
0 45 90 GRAPHIC SCALE	

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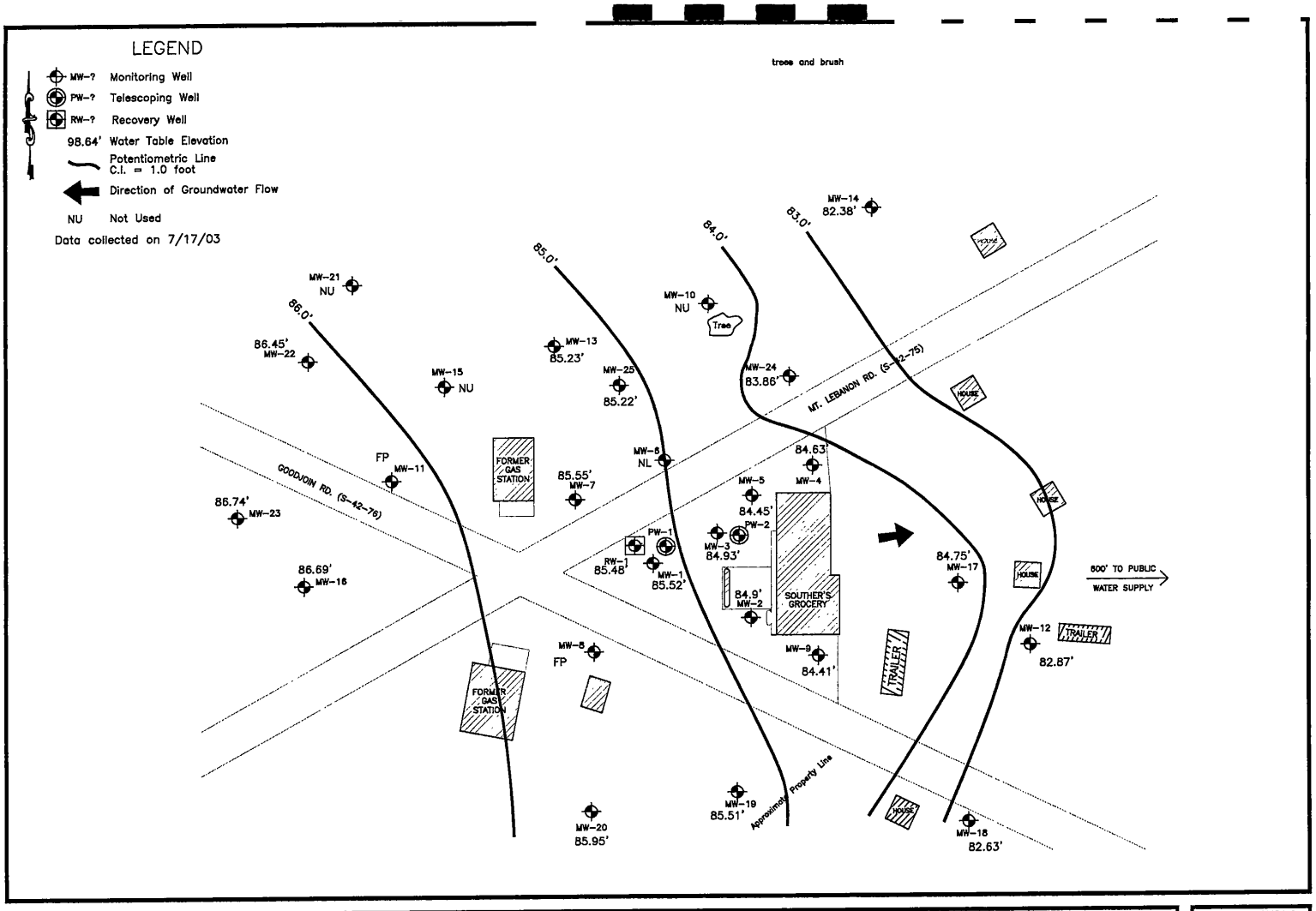
SOUTHER'S GROCERY
SITE MAP & FIELD SCREENING LOCATION MAP
GOODJOIN RD. AND MT. LEBANON RD.
CAMPOBELLO SOUTH CAROLINA

PROJ. No.: 02003315.A10
DATE: 8/03

FIG 2

CTB:
LMAN:
MS VIEW:
UCS:



SCALE	
HORZ.: 1" = 90'	
VERT.:	
DATUM:	
HORZ.:	
VERT.:	
0 45 90	
GRAPHIC SCALE	

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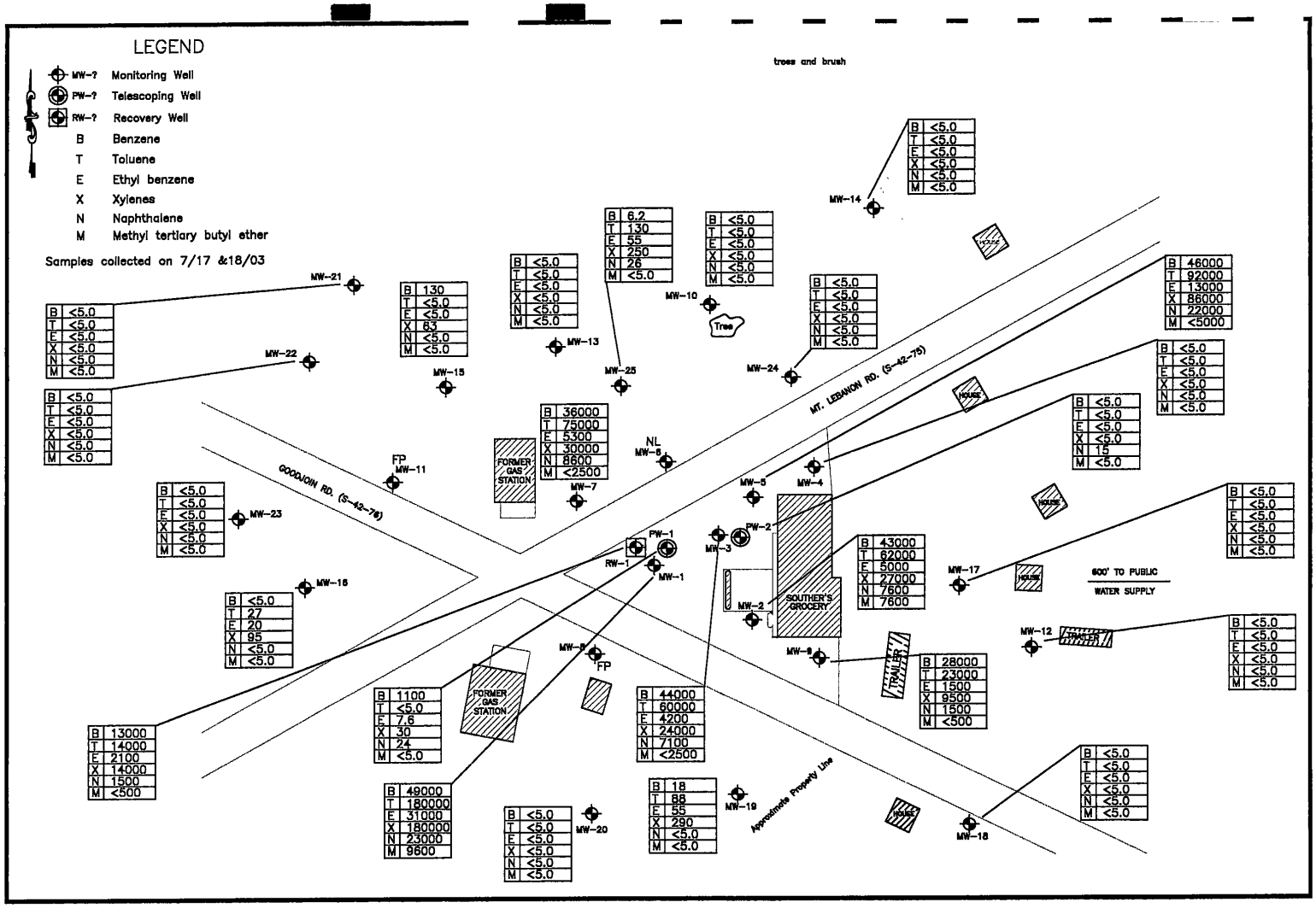
SOUTHER'S GROCERY
POTENTIOMETRIC MAP
GOODJOIN RD. AND MT. LEBANON RD.
CAMPOBELLO SOUTH CAROLINA

PROJ. No: 02003315.A10
DATE: 8/03

FIG 3

CTB:
LMAN:
MS VIEW:
UCS:



SCALE:	
HORZ.: 1" = 90'	
VERT.:	
DATUM:	
HORZ.:	
VERT.:	
0 45 90 GRAPHIC SCALE	

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SOUTHER'S GROCERY
CHEMICALS OF CONCERN MAP
GOODJOIN RD. AND MT. LEBANON RD.
CAMPOBELLO SOUTH CAROLINA

PROJ. No.: 02003315.A10
DATE: 8/03

FIG 4

UCS: MS VIEW: LMAN: CTB:

APPENDIX A

Souther's Grocery
Soil Boring and Monitoring Well Logs

Fuss & O'Neill Inc.
Consulting Engineers

LOG OF BORING: FS-1

Site Name:	Souther's Grocery	Drilling/Boring Method:	Hydraulic Punch	Total Boring Depth (ft):	16
Project Number:	02003315.A10	Sampling Method:	Continuous core	Measuring Point Elev. (ft-msl):	N/A
Location:	Campobello, SC	Subcontractor/Drillers:	Jimmy Burr	Latitude	35° 03.49'
Date/Time Started:	7/9/2003	SC Registration	SC #1740	Longitude	81° 11.00'
Date/Time Completed:	7/9/2003	Monitoring Equipment:	OVA	Geologist/Engineer:	Jeremy Grant

ft -bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)	Construction	ft-bgs
5		1.9			Red to orangish brown silty clay with some medium coarse quartz		5
		1.3					
10		158.0			Red to orangish brown silt, with some fine to medium sand		10
15		1318.0			Orangish brown and greyish brown schistotic silt		15
					Total Depth 16'		
20							20
25							25
30							30
35							35
40							40

COMMENTS:

NOTES:
in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

Fuss & O'Neill Inc.
Consulting Engineers

LOG OF BORING: FS-2

Site Name:	Souther's Grocery	Drilling/Boring Method:	Hydraulic Punch	Total Boring Depth (ft):	16
Project Number:	02003315.A10	Sampling Method:	Continuous core	Measuring Point Elev. (ft-msl):	N/A
Location:	Campobello, SC	Subcontractor/Drillers:	Jimmy Burr	Latitude	35° 03.49'
Date/Time Started:	7/9/2003	SC Registration	SC #1740	Longitude	81° 11.00'
Date/Time Completed:	7/9/2003	Monitoring Equipment:	OVA	Geologist/Engineer:	Jeremy Grant

ft -bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)	Construction	ft-bgs
5		0.0			Red to orangish brown silty clay with some medium coarse quartz		5
		0.5					
10		0.0			Red to orangish brown silt, with some fine to medium sand		10
15		8.2			Orangish brown and greyish brown schistotic silt		15
					Total Depth 16'		
20							20
25							25
30							30
35							35
40							40

COMMENTS:

NOTES:
in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

Fuss & O'Neill Inc.
Consulting Engineers

LOG OF BORING: FS-3

Site Name:	Souther's Grocery	Drilling/Boring Method:	Hydraulic Punch	Total Boring Depth (ft):	16
Project Number:	02003315.A10	Sampling Method:	Continuous core	Measuring Point Elev. (ft-msl):	N/A
Location:	Campobello, SC	Subcontractor/Drillers:	Jimmy Burr	Latitude	35° 03.49'
Date/Time Started:	7/9/2003	SC Registration	SC #1740	Longitude	81° 11.00'
Date/Time Completed:	7/9/2003	Monitoring Equipment:	OVA	Geologist/Engineer:	Jeremy Grant

ft -bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)	Construction	ft-bgs
5		0.0			Red to orangish brown silty clay with some medium coarse quartz		5
		0.0					
10							10
		0.0			Purplish red, yellow and orangish brown schistoic silty sand		
15		0.0			Purplish red and yellow banded silty sand		15
					Total Depth 16'		
20							20
25							25
30							30
35							35
40							40

COMMENTS:

NOTES:
in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

LOG OF BORING: FS-4

Fuss & O'Neill Inc.
Consulting Engineers

Site Name:	Souther's Grocery	Drilling/Boring Method:	Hydraulic Punch	Total Boring Depth (ft):	20
Project Number:	02003315.A10	Sampling Method:	Continuous core	Measuring Point Elev. (ft-msl):	N/A
Location:	Campobello, SC	Subcontractor/Drillers:	Jimmy Burr	Latitude	35° 03.49'
Date/Time Started:	7/9/2003	SC Registration	SC #1740	Longitude	81° 11.00'
Date/Time Completed:	7/9/2003	Monitoring Equipment:	OVA	Geologist/Engineer:	Jeremy Grant

ft -bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)	Construction	ft-bgs
5		0.0			Redish orange silty clay, some sand		5
		0.0			Orangish brown and yellowish brown silty clay with some med. Coarse qtz.		
10					4 inch quartz vein @ 11 feet		10
		0.0					
15		1.5			Black, brown to yellowish brown schistotic silt		15
20		312.0			Total Depth 20'		20
25							25
30							30
35							35
40							40

COMMENTS:

NOTES:
in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

Fuss & O'Neill Inc.
Consulting Engineers

LOG OF BORING: FS-5

Site Name:	Souther's Grocery	Drilling/Boring Method:	Hydraulic Punch	Total Boring Depth (ft):	24
Project Number:	02003315.A10	Sampling Method:	Continuous core	Measuring Point Elev. (ft-msl):	N/A
Location:	Campobello, SC	Subcontractor/Drillers:	Jimmy Burr	Latitude	35° 03.49'
Date/Time Started:	7/9/2003	SC Registration	SC #1740	Longitude	81° 11.00'
Date/Time Completed:	7/9/2003	Monitoring Equipment:	OVA	Geologist/Engineer:	Jeremy Grant

ft -bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)	Construction	ft-bgs
5		0.0			Redish orange silty clay, some sand		5
		0.0			Orangish brown and yellowish brown silty clay with some med. Coarse qtz.		
10							10
		0.0					
15		0.0					15
20		0.0			Black, brown to yellowish brown schistotic silt		20
25					Total Depth 24'		25
30							30
35							35
40							40

COMMENTS:

NOTES:
in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

Fuss & O'Neill Inc.
Consulting Engineers

LOG OF BORING: FS-6

Site Name:	Souther's Grocery	Drilling/Boring Method:	Hydraulic Punch	Total Boring Depth (ft):	16
Project Number:	02003315.A10	Sampling Method:	Continuous core	Measuring Point Elev. (ft-msl):	N/A
Location:	Campobello, SC	Subcontractor/Drillers:	Jimmy Burr	Latitude	35° 03.49'
Date/Time Started:	7/9/2003	SC Registration	SC #1740	Longitude	81° 11.00'
Date/Time Completed:	7/9/2003	Monitoring Equipment:	OVA	Geologist/Engineer:	Jeremy Grant

ft -bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)	Construction	ft-bgs
					Red and orangish brown silty clay with some medium sized quartz		
5		0.0					5
		0.0			Yellowish brown, redish brown, and white mottled micaceous silty clay-some foliation		
10							10
		0.0			Light brown and black silt, highly micaceous hard highly foliated		
15		0.0					15
					Total Depth 16'		
20							20
25							25
30							30
35							35
40							40

COMMENTS:

NOTES:
in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

Fuss & O'Neill Inc.
Consulting Engineers

LOG OF BORING: FS-7

Site Name:	Souther's Grocery	Drilling/Boring Method:	Hydraulic Punch	Total Boring Depth (ft):	16
Project Number:	02003315.A10	Sampling Method:	Continuous core	Measuring Point Elev. (ft-msl):	N/A
Location:	Campobello, SC	Subcontractor/Drillers:	Jimmy Burr	Latitude	35° 03.49'
Date/Time Started:	7/9/2003	SC Registration	SC #1740	Longitude	81° 11.00'
Date/Time Completed:	7/9/2003	Monitoring Equipment:	OVA	Geologist/Engineer:	Jeremy Grant

ft-bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)	Construction	ft-bgs
					Red and orangish brown silty clay with some medium sized quartz		
5		0.0					5
		0.0			Yellowish brown, redish brown, and white mottled micaceous silty clay-some foliation		
10		0.0					10
					Light brown and black silt, highly micaceous hard highly foliated		
15		0.0					15
					Total Depth 16'		
20							20
25							25
30							30
35							35
40							40

COMMENTS:

NOTES:
in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

Fuss & O'Neill Inc.
Consulting Engineers

LOG OF BORING: FS-8

Site Name:	Souther's Grocery	Drilling/Boring Method:	Hydraulic Punch	Total Boring Depth (ft):	16
Project Number:	02003315.A10	Sampling Method:	Continuous core	Measuring Point Elev. (ft-msl):	N/A
Location:	Campobello, SC	Subcontractor/Drillers:	Jimmy Burr	Latitude	35° 03.49'
Date/Time Started:	7/9/2003	SC Registration	SC #1740	Longitude	81° 11.00'
Date/Time Completed:	7/9/2003	Monitoring Equipment:	OVA	Geologist/Engineer:	Jeremy Grant

ft-bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)	Construction	ft-bgs
					Redish brown silty clay, some medium quartz		
5		0.0			Yellowish brown silty clay		5
		0.0					
10					Yellowish brown, redish brown, and orangish brown micaceous silt		10
		0.0					
15		0.0			Light brown and black silt, highly micaceous hard highly foliated		15
					Total Depth 16'		
20							20
25							25
30							30
35							35
40							40

COMMENTS:

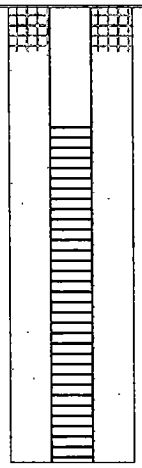
NOTES:
in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

LOG OF BORING: MW-21

Fuss & O'Neill, Inc.
Consulting Engineers

Site Name:	Souther's Grocery	Drilling/Boring Method:	4.25 Hollow Stem Auger	Total Well Depth (ft):	20
Project Number:	02003315.A10	Sampling Method:	NA	Measuring Point Elev. (ft-msl):	N/A
Location:	Campobello, SC	Subcontractor/Drillers:	Carrie Drake	Latitude	35° 03.49'
Date/Time Started:	7/15/2003	SC Registration	SC #969	Longitude	81° 11.00'
Date/Time Completed:	7/15/2003	Monitoring Equipment:	OVA	Geologist/Engineer:	Brad Defee

ft -bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)	Construction	ft-bgs
					Red and orangish brown silty clay with some medium sized quartz		
5		0.0			Yellowish brown, redish brown, and white mottled micaceous silty clay-some foliation		5
10		0.0			Light brown and black silt, highly micaceous hard highly foliated		10
15							15
20					Total Depth 20' 15' of screen		20
25							25
30							30
35							35
40							40



COMMENTS:

NOTES:
in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

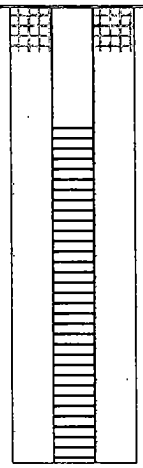
LOG OF BORING: MW-22

Fuss & O'Neill, Inc.
Consulting Engineers

Site Name:	Souther's Grocery	Drilling/Boring Method:	4.25 Hollow Stem Auger	Total Well Depth (ft):	20
Project Number:	02003315.A10	Sampling Method:	NA	Measuring Point Elev. (ft-msl):	N/A
Location:	Campobello, SC	Subcontractor/Drillers:	Carrie Drake	Latitude	35° 03.49'
Date/Time Started:	7/15/2003	SC Registration	SC #969	Longitude	81° 11.00'
Date/Time Completed:	7/15/2003	Monitoring Equipment:	OVA	Geologist/Engineer:	Brad Defee

ft-bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)
					Red and orangish brown silty clay with some medium sized quartz
5		0.0			
					Yellowish brown, redish brown, and white mottled micaceous silty clay-some foliation
10		0.0			
					Light brown and black silt, highly micaceous hard highly foliated
15					
20					Total Depth 20' 15' of screen
25					
30					
35					
40					

Construction



COMMENTS:

NOTES:
in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

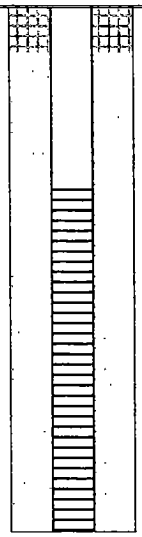
LOG OF BORING: MW-23

Fuss & O'Neill, Inc.
Consulting Engineers

Site Name:	Souther's Grocery	Drilling/Boring Method:	4.25 Hollow Stem Auger	Total Well Depth (ft):	23
Project Number:	02003315.A10	Sampling Method:	NA	Measuring Point Elev. (ft-msl):	N/A
Location:	Campobello, SC	Subcontractor/Drillers:	Carrie Drake	Latitude	35° 03.49'
Date/Time Started:	7/15/2003	SC Registration	SC #969	Longitude	81° 11.00'
Date/Time Completed:	7/15/2003	Monitoring Equipment:	OVA	Geologist/Engineer:	Brad Defee

ft-bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)
					Red and orangish brown silty clay with some medium sized quartz
5		0.0			Orange silty sand
10		0.0			Redish orange sandy silt
15					
20					
25					Total Depth 23' 15' of screen
30					
35					
40					

Construction



COMMENTS:

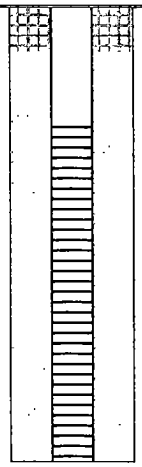
NOTES:
in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

LOG OF BORING: MW-24

Fuss & O'Neill, Inc.
Consulting Engineers

Site Name:	Souther's Grocery	Drilling/Boring Method:	4.25 Hollow Stem Auger	Total Well Depth (ft):	20
Project Number:	02003315.A10	Sampling Method:	NA	Measuring Point Elev. (ft-msl):	N/A
Location:	Campobello, SC	Subcontractor/Drillers:	Carrie Drake	Latitude	35° 03.49'
Date/Time Started:	7/15/2003	SC Registration	SC #969	Longitude	81° 11.00'
Date/Time Completed:	7/15/2003	Monitoring Equipment:	OVA	Geologist/Engineer:	Brad Defee

ft -bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)	Construction	ft-bgs
					Red and orangish brown silty clay with some medium sized quartz		
5		0.0			Yellowish brown, silty clay		5
10		0.0			Light brown silt		10
15							15
20					Total Depth 20' 15' of screen		20
25							25
30							30
35							35
40							40



COMMENTS:

NOTES:
in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

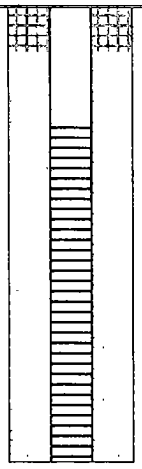
LOG OF BORING: MW-25

Fuss & O'Neill, Inc.
Consulting Engineers

Site Name:	Souther's Grocery	Drilling/Boring Method:	4.25 Hollow Stem Auger	Total Well Depth (ft):	20
Project Number:	02003315.A10	Sampling Method:	NA	Measuring Point Elev. (ft-msl):	N/A
Location:	Campobello, SC	Subcontractor/Drillers:	Carrie Drake	Latitude	35° 03.49'
Date/Time Started:	7/15/2003	SC Registration	SC #969	Longitude	81° 11.00'
Date/Time Completed:	7/15/2003	Monitoring Equipment:	OVA	Geologist/Engineer:	Brad Defee

ft-bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)
					Red and orangish brown silty clay with some medium sized quartz
5		0.0			Yellowish brown, silty clay
10		18.7			
15					Light brown silt
20					Total Depth 20' 15' of screen
25					
30					
35					
40					

Construction



COMMENTS:

NOTES:
in - indicates inches
ft - Indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

APPENDIX B

Souther's Grocery
Laboratory Analytical Results

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

Fuss and O'neill Consulting Engineers, Inc.
1419 Richland Street
Columbia, SC 29201
Attention: Brad Defee

Project Name: **Souther's Grocery**

Project Number: **2003-315-A10**

Lot Number: **EG21019**

Date Completed: **07/31/2003**

Jennifer Orr Jones
Project Manager

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The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

Case Narrative
Fuss and O'neill Consulting Engineers, Inc.
Lot Number: EG21019

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative.

Sample receipt, sample analysis, and data review have been performed in accordance with Shealy's Quality Assurance Management Plan and Standard Operating Procedures. Any data qualifiers associated with sample analysis are footnoted on the analytical results page(s) or are discussed below.

SHEALY ENVIRONMENTAL SERVICES, INC.

Sample Summary
Fuss and O'neill Consulting Engineers, Inc.
Lot Number: EG21019

Sample Number	Sample ID	Matrix	Date Sampled
001	MW-1	Aqueous	07/18/2003 1350
002	MW-2	Aqueous	07/18/2003 1420
003	MW-3	Aqueous	07/18/2003 1455
004	MW-4	Aqueous	07/18/2003 1530
005	MW-5	Aqueous	07/18/2003 1600
006	MW-7	Aqueous	07/18/2003 1230
007	MW-9	Aqueous	07/17/2003 1030
008	MW-10	Aqueous	07/18/2003 1145
009	MW-12	Aqueous	07/17/2003 1100
010	MW-13	Aqueous	07/18/2003 1315
011	MW-14	Aqueous	07/17/2003 1545
012	MW-15	Aqueous	07/18/2003 1030
013	MW-16	Aqueous	07/18/2003 1100
014	MW-17	Aqueous	07/17/2003 1130
015	MW-18	Aqueous	07/17/2003 1200
016	MW-19	Aqueous	07/17/2003 1230
017	MW-20	Aqueous	07/17/2003 1300
018	MW-21	Aqueous	07/17/2003 1345
019	MW-22	Aqueous	07/17/2003 1430
020	MW-23	Aqueous	07/17/2003 1500
021	MW-24	Aqueous	07/18/2003 1630
022	MW-25	Aqueous	07/18/2003 1700
023	PW-1	Aqueous	07/17/2003
024	PW-2	Aqueous	07/17/2003
025	RW-1	Aqueous	07/17/2003

(25 samples)

Executive Summary
Fuss and O'neill Consulting Engineers, Inc.
Lot Number: EG21019

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units
001	MW-1	Aqueous	Benzene	8260B	49000		ug/L
001	MW-1	Aqueous	Ethylbenzene	8260B	31000		ug/L
001	MW-1	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	9600		ug/L
001	MW-1	Aqueous	Naphthalene	8260B	23000		ug/L
001	MW-1	Aqueous	Toluene	8260B	180000		ug/L
001	MW-1	Aqueous	Xylenes (total)	8260B	180000		ug/L
002	MW-2	Aqueous	Benzene	8260B	43000		ug/L
002	MW-2	Aqueous	Ethylbenzene	8260B	5000		ug/L
002	MW-2	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	7600		ug/L
002	MW-2	Aqueous	Naphthalene	8260B	7600		ug/L
002	MW-2	Aqueous	Toluene	8260B	62000		ug/L
002	MW-2	Aqueous	Xylenes (total)	8260B	27000		ug/L
003	MW-3	Aqueous	Benzene	8260B	44000		ug/L
003	MW-3	Aqueous	Ethylbenzene	8260B	4200		ug/L
003	MW-3	Aqueous	Naphthalene	8260B	7100		ug/L
003	MW-3	Aqueous	Toluene	8260B	60000		ug/L
003	MW-3	Aqueous	Xylenes (total)	8260B	24000		ug/L
005	MW-5	Aqueous	Benzene	8260B	46000		ug/L
005	MW-5	Aqueous	Ethylbenzene	8260B	13000		ug/L
005	MW-5	Aqueous	Naphthalene	8260B	22000		ug/L
005	MW-5	Aqueous	Toluene	8260B	92000		ug/L
005	MW-5	Aqueous	Xylenes (total)	8260B	86000		ug/L
006	MW-7	Aqueous	Benzene	8260B	36000		ug/L
006	MW-7	Aqueous	Ethylbenzene	8260B	5300		ug/L
006	MW-7	Aqueous	Naphthalene	8260B	8600		ug/L
006	MW-7	Aqueous	Toluene	8260B	75000		ug/L
006	MW-7	Aqueous	Xylenes (total)	8260B	30000		ug/L
007	MW-9	Aqueous	Benzene	8260B	28000	E	ug/L
007	MW-9	Aqueous	Ethylbenzene	8260B	1500		ug/L
007	MW-9	Aqueous	Naphthalene	8260B	1500		ug/L
007	MW-9	Aqueous	Toluene	8260B	23000	E	ug/L
007	MW-9	Aqueous	Xylenes (total)	8260B	9500		ug/L
012	MW-15	Aqueous	Benzene	8260B	130		ug/L
012	MW-15	Aqueous	Xylenes (total)	8260B	63		ug/L
013	MW-16	Aqueous	Ethylbenzene	8260B	20		ug/L
013	MW-16	Aqueous	Toluene	8260B	27		ug/L
013	MW-16	Aqueous	Xylenes (total)	8260B	95		ug/L
016	MW-19	Aqueous	Benzene	8260B	18		ug/L
016	MW-19	Aqueous	Ethylbenzene	8260B	55		ug/L
016	MW-19	Aqueous	Toluene	8260B	88		ug/L
016	MW-19	Aqueous	Xylenes (total)	8260B	290		ug/L
022	MW-25	Aqueous	Benzene	8260B	6.2		ug/L
022	MW-25	Aqueous	Ethylbenzene	8260B	55		ug/L
022	MW-25	Aqueous	Naphthalene	8260B	26		ug/L
022	MW-25	Aqueous	Toluene	8260B	130		ug/L
022	MW-25	Aqueous	Xylenes (total)	8260B	250		ug/L
023	PW-1	Aqueous	Benzene	8260B	1100		ug/L
023	PW-1	Aqueous	Ethylbenzene	8260B	7.6		ug/L

Executive Summary (continued)

Lot Number: EG21019

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units
023	PW-1	Aqueous	Naphthalene	8260B	24		ug/L
023	PW-1	Aqueous	Xylenes (total)	8260B	30		ug/L
024	PW-2	Aqueous	Naphthalene	8260B	15		ug/L
025	RW-1	Aqueous	Benzene	8260B	13000		ug/L
025	RW-1	Aqueous	Ethylbenzene	8260B	2100		ug/L
025	RW-1	Aqueous	Naphthalene	8260B	1500		ug/L
025	RW-1	Aqueous	Toluene	8260B	14000		ug/L
025	RW-1	Aqueous	Xylenes (total)	8260B	14000		ug/L

(56 detections)

Volatile Organic Compounds by GC/MS

Client: **Fuss and O'neill Consulting Engineers, Inc.**
Laboratory ID: **EG21019-001**
Description: **MW-1**
Matrix: **Aqueous**
Date Sampled: **07/18/2003 1350**
Date Received: **07/21/2003**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1000	08/01/2003 0203	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	**71-43-2**	**8260B**	**49000**		**5000**	**ug/L**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**31000**		**5000**	**ug/L**	**1**
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**9600**		**5000**	**ug/L**	**1**
Naphthalene	**91-20-3**	**8260B**	**23000**		**5000**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**180000**		**5000**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**180000**		**5000**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		113	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Fuss and O'neill Consulting Engineers, Inc.**
Laboratory ID: **EG21019-002**
Description: **MW-2**
Matrix: **Aqueous**
Date Sampled: **07/18/2003 1420**
Date Received: **07/21/2003**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	500	08/01/2003 0228	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	**71-43-2**	**8260B**	**43000**		**2500**	**ug/L**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**5000**		**2500**	**ug/L**	**1**
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**7600**		**2500**	**ug/L**	**1**
Naphthalene	**91-20-3**	**8260B**	**7600**		**2500**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**62000**		**2500**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**27000**		**2500**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		112	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Fuss and O'neill Consulting Engineers, Inc.**
Laboratory ID: **EG21019-003**
Description: **MW-3**
Matrix: **Aqueous**
Date Sampled: **07/18/2003 1455**
Date Received: **07/21/2003**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	500	08/01/2003 0253	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	**71-43-2**	**8260B**	**44000**		**2500**	**ug/L**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**4200**		**2500**	**ug/L**	**1**
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		2500	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**7100**		**2500**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**60000**		**2500**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**24000**		**2500**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		110	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL.
B = Detected in the method blank
J = Estimated result less than the PQL.
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Fuss and O'neill Consulting Engineers, Inc.**
Laboratory ID: **EG21019-004**
Description: **MW-4**
Matrix: **Aqueous**
Date Sampled: **07/18/2003 1530**
Date Received: **07/21/2003**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/31/2003 0143	LH		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		76	70-130
Bromofluorobenzene		106	70-130
Toluene-d8		86	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Fuss and O'neill Consulting Engineers, Inc.**
Laboratory ID: **EG21019-005**
Description: **MW-5**
Matrix: **Aqueous**
Date Sampled: **07/18/2003 1600**
Date Received: **07/21/2003**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1000	08/01/2003 0318	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	**71-43-2**	**8260B**	**46000**		**5000**	**ug/L**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**13000**		**5000**	**ug/L**	**1**
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5000	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**22000**		**5000**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**92000**		**5000**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**86000**		**5000**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		108	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		108	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Fuss and O'neill Consulting Engineers, Inc.**
Laboratory ID: **EG21019-006**
Description: **MW-7**
Matrix: **Aqueous**
Date Sampled: **07/18/2003 1230**
Date Received: **07/21/2003**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	500	08/01/2003 0343	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	**71-43-2**	**8260B**	**36000**		**2500**	**ug/L**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**5300**		**2500**	**ug/L**	**1**
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		2500	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**8600**		**2500**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**75000**		**2500**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**30000**		**2500**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		112	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Fuss and O'neill Consulting Engineers, Inc.**
Laboratory ID: **EG21019-007**
Description: **MW-9**
Matrix: **Aqueous**
Date Sampled: **07/17/2003 1030**
Date Received: **07/21/2003**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	100	07/31/2003 1607	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	**71-43-2**	**8260B**	**28000**	**E**	**500**	**ug/L**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**1500**		**500**	**ug/L**	**1**
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		500	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**1500**		**500**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**23000**	**E**	**500**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**9500**		**500**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		99	70-130
Toluene-d8		111	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Fuss and O'neill Consulting Engineers, Inc.**
Laboratory ID: **EG21019-008**
Description: **MW-10**
Matrix: **Aqueous**
Date Sampled: **07/18/2003 1145**
Date Received: **07/21/2003**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/31/2003 0211	LH		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		76	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		84	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Fuss and O'neill Consulting Engineers, Inc.**
Laboratory ID: **EG21019-009**
Description: **MW-12**
Matrix: **Aqueous**
Date Sampled: **07/17/2003 1100**
Date Received: **07/21/2003**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/31/2003 0240	LH		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		76	70-130
Bromofluorobenzene		105	70-130
Toluene-d8		84	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Fuss and O'neill Consulting Engineers, Inc.**
Laboratory ID: **EG21019-010**
Description: **MW-13**
Matrix: **Aqueous**
Date Sampled: **07/18/2003 1315**
Date Received: **07/21/2003**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/01/2003 0048	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		116	70-130
Bromofluorobenzene		81	70-130
Toluene-d8		88	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Fuss and O'neill Consulting Engineers, Inc.**
Laboratory ID: **EG21019-011**
Description: **MW-14**
Matrix: **Aqueous**
Date Sampled: **07/17/2003 1545**
Date Received: **07/21/2003**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/31/2003 0308	LH		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		76	70-130
Bromofluorobenzene		105	70-130
Toluene-d8		85	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Fuss and O'neill Consulting Engineers, Inc.** Laboratory ID: **EG21019-012**

Description: **MW-15** Matrix: **Aqueous**

Date Sampled: **07/18/2003 1030**

Date Received: **07/21/2003**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/31/2003 2359	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	**71-43-2**	**8260B**	**130**		**5.0**	**ug/L**	**1**
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
Xylenes (total)	**1330-20-7**	**8260B**	**63**		**5.0**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		113	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		107	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Fuss and O'neill Consulting Engineers, Inc.**
Laboratory ID: **EG21019-013**
Description: **MW-16**
Matrix: **Aqueous**
Date Sampled: **07/18/2003 1100**
Date Received: **07/21/2003**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/31/2003 0336	LH		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**20**		**5.0**	**ug/L**	**1**
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	ug/L	1
Toluene	**108-88-3**	**8260B**	**27**		**5.0**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**95**		**5.0**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		71	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		93	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Fuss and O'neill Consulting Engineers, Inc.**
Laboratory ID: **EG21019-014**
Description: **MW-17**
Matrix: **Aqueous**
Date Sampled: **07/17/2003 1130**
Date Received: **07/21/2003**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/31/2003 0404	LH		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		75	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		84	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL.
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W".

Volatile Organic Compounds by GC/MS

Client: **Fuss and O'neill Consulting Engineers, Inc.**
Laboratory ID: **EG21019-015**
Description: **MW-18**
Matrix: **Aqueous**
Date Sampled: **07/17/2003 1200**
Date Received: **07/21/2003**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/31/2003 0433	LH		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		77	70-130
Bromofluorobenzene		105	70-130
Toluene-d8		84	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Fuss and O'neill Consulting Engineers, Inc.**
Laboratory ID: **EG21019-016**
Description: **MW-19**
Matrix: **Aqueous**
Date Sampled: **07/17/2003 1230**
Date Received: **07/21/2003**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/31/2003 1656	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	**71-43-2**	**8260B**	**18**		**5.0**	**ug/L**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**55**		**5.0**	**ug/L**	**1**
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	ug/L	1
Toluene	**108-88-3**	**8260B**	**88**		**5.0**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**290**		**5.0**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		107	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Fuss and O'neill Consulting Engineers, Inc.**
Laboratory ID: **EG21019-017**
Description: **MW-20**
Matrix: **Aqueous**
Date Sampled: **07/17/2003 1300**
Date Received: **07/21/2003**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/31/2003 0501	LH		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		76	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		85	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Fuss and O'neill Consulting Engineers, Inc.**
Laboratory ID: **EG21019-018**
Description: **MW-21**
Matrix: **Aqueous**
Date Sampled: **07/17/2003 1345**
Date Received: **07/21/2003**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/31/2003 1746	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		112	70-130
Bromofluorobenzene		85	70-130
Toluene-d8		105	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Fuss and O'neill Consulting Engineers, Inc.**
Laboratory ID: **EG21019-019**
Description: **MW-22**
Matrix: **Aqueous**
Date Sampled: **07/17/2003 1430**
Date Received: **07/21/2003**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/31/2003 1811	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		114	70-130
Bromofluorobenzene		87	70-130
Toluene-d8		102	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Fuss and O'neill Consulting Engineers, Inc.**
Laboratory ID: **EG21019-020**
Description: **MW-23**
Matrix: **Aqueous**
Date Sampled: **07/17/2003 1500**
Date Received: **07/21/2003**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/31/2003 1836	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		113	70-130
Bromofluorobenzene		86	70-130
Toluene-d8		104	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Fuss and O'neill Consulting Engineers, Inc.**
Laboratory ID: **EG21019-021**
Description: **MW-24**
Matrix: **Aqueous**
Date Sampled: **07/18/2003 1630**
Date Received: **07/21/2003**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/01/2003 0113	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		120	70-130
Bromofluorobenzene		82	70-130
Toluene-d8		106	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Fuss and O'neill Consulting Engineers, Inc.**
Laboratory ID: **EG21019-022**
Description: **MW-25**
Matrix: **Aqueous**
Date Sampled: **07/18/2003 1700**
Date Received: **07/21/2003**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/01/2003 0138	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	**71-43-2**	**8260B**	**6.2**		**5.0**	**ug/L**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**55**		**5.0**	**ug/L**	**1**
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**26**		**5.0**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**130**		**5.0**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**250**		**5.0**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		111	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		105	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Fuss and O'neill Consulting Engineers, Inc.**
Laboratory ID: **EG21019-023**
Description: **PW-1**
Matrix: **Aqueous**
Date Sampled: **07/17/2003**
Date Received: **07/21/2003**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/31/2003 1900	RED		
2	5030B	8260B	10	07/31/2003 2309	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	**71-43-2**	**8260B**	**1100**		**50**	**ug/L**	**2**
Ethylbenzene	**100-41-4**	**8260B**	**7.6**		**5.0**	**ug/L**	**1**
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**24**		**5.0**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
Xylenes (total)	**1330-20-7**	**8260B**	**30**		**5.0**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130		113	70-130
Bromofluorobenzene		97	70-130		88	70-130
Toluene-d8		103	70-130		108	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Fuss and O'neill Consulting Engineers, Inc.**
Laboratory ID: **EG21019-024**
Description: **PW-2**
Matrix: **Aqueous**
Date Sampled: **07/17/2003**
Date Received: **07/21/2003**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	07/31/2003 1925	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**15**		**5.0**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		109	70-130
Bromofluorobenzene		87	70-130
Toluene-d8		108	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **Fuss and O'neill Consulting Engineers, Inc.**
Laboratory ID: **EG21019-025**
Description: **RW-1**
Matrix: **Aqueous**
Date Sampled: **07/17/2003**
Date Received: **07/21/2003**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	100	07/31/2003 1631	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	**71-43-2**	**8260B**	**13000**		**500**	**ug/L**	**1**
Ethylbenzene	**100-41-4**	**8260B**	**2100**		**500**	**ug/L**	**1**
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		500	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**1500**		**500**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**14000**		**500**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**14000**		**500**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		110	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		113	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

SHEALY *Chain of Custody Record*

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive
Cayce, South Carolina 29033
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

Number 26667

Client: Fass O'Neill	Report to Contact: Brad Dafe	Telephone No. / Fax No. / E-mail:	Quote No.:
Address: 1419 Richland St	Sampler's Signature: x Brad Dafe	Waybill No.:	Page ____ of ____
City: Cola; State: S.C.; Zip Code: 29201	Printed Name: Brad Dafe		
Project Name: Southern Driveway			
Project No.: 2003-315-A10	P.O. No.:		

Analysis (Attach list if more space is needed.): BTEX, Naph, MTBE

Lot No.: EG21019

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	G=Grab C=Composite	Matrix: Aqueous	Matrix: Solid	Matrix: Non-Aqueous	No. of Containers by Preservative Type: Unpres.	H2SO4	HNO3	HCl	NaOH	5035 Kit	BTEX, Naph, MTBE	Remarks / Cooler I.D.
MW-1	7/18	1:50	G	X									X	
MW-2	7/18	2:20											X	
MW-3	7/18	2:55											X	
MW-4	7/18	3:30											X	
MW-5	7/18	4:00											X	
MW 7	7/18	12:30											X	
MW 9	7/17	10:30											X	
MW 10	7/18	11:45											X	
MW 12	7/17	11:00											X	
MW-13	7/18	1:15	V	W									X	

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

Sample Disposal: ☐ Return to Client ☐ Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

Turn Around Time Required (Prior lab approval required for expedited TAT.): ☐ Standard ☐ Rush (Specify)

QC Requirements (Specify):

1. Relinquished by: Brad Dafe	Date: 7/21/03	Time: 8:00	1. Received by: Lynne Ann	Date: 7/21/03	Time: 8:00
2. Relinquished by: Secure Area	Date: 7-21-03	Time: 1015	2. Received by: Lynne Anderson	Date: 7-21-03	Time: 1015
3. Relinquished by: Lynne Anderson	Date: 7-21-03	Time: 1605	3. Laboratory received by: Lou Nash	Date: 7/21/03	Time: 1605

Comments:

LAB USE ONLY
Received on ice (Circle) Yes No Ice Pack
Receipt Temp. 1.4 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-012 Effective Date: 08-04-02

SHEALY *Chain of Custody Record*

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive
Cayce, South Carolina 29033
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

Number 26666

Client: Fuss & O'Neill Inc.	Report to Contact: Brad Defer	Telephone No. / Fax No. / E-mail: 376-6034	Quote No.
Address: 1419 Richland St.	Sampler's Signature: x Brad Defer	Waybill No.	Page ____ of ____
City: Col. / State: S.C. / Zip Code: 29201	Printed Name: Brad DeFer	Analysis (Attach list if more space is needed.)	
Project Name: Southern Grocery			
Project No.: 2003-315 A10	P.O. No.		Lot No.

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	G=Grab C=Composite	Matrix: Aqueous	Solid	Non-Aqueous	No. of Containers by Preservative Type: Unpres.	H_2SO_4	HNO_3	HCl	NaOH	5035 Kit	BTEX Naph. MtBE	Remarks / Cooler I.D.
MW-14	7/17	3:45	G										X	
MW-15	7/18	12:30											X	
MW-16	7/18	11:00											X	
MW-17	7/17	11:30											X	
MW-18	7/17	12:30											X	
MW-19	7/19	12:30											X	
MW-20	7/19	1:00											X	
MW-21	7/19	1:45											X	
MW-22	7/19	2:30											X	
MW-23	7/19	3:00											X	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

Sample Disposal
☐ Return to Client ☐ Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

Turn Around Time Required (Prior lab approval required for expedited TAT.)
☐ Standard ☐ Rush (Specify)

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by: Brad D	7/21/03	8:00	1. Received by: Susan Ann	7/21/03	8:00
2. Relinquished by: Secure Area / Laye Anderson	7-21-03	1015	2. Received by: Laye Anderson	7-21-03	1015
3. Relinquished by: Laye Anderson	7-21-03	1605	3. Laboratory received by: Lou Castillo	7/21/03	1605

Comments

LAB USE ONLY
Received on ice (Circle) Yes No Ice Pack

Receipt Temp. 7.4 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-012 Effective Date: 08-04-02

SHEALY *Chain of Custody Record*

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive
Cayce, South Carolina 29033
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

Number 17593

Client: Fuss + O'Neill	Report to Contact: Brad D	Telephone No. / Fax No. / E-mail	Quote No.
Address: 1415 Richland St	Sampler's Signature: X Brad D	Waybill No.	Page ____ of ____
City: Cola State: SC Zip Code: 29201	Printed Name: Brad DeFee	Analysis (Attach list if more space is needed.)	
Project Name: Southern Drain			
Project No.: 2003-315-A10	P.O. No.		Lot No.

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	G=Grab C=Composite	Matrix: Aqueous	Solid	Non-Aqueous	No. of Containers by Preservative Type: Unpres.	H2SO4	HNO3	HCl	NaOH	5035 Kit	BTEX Napl, MTBE	Remarks / Cooler I.D.
MW-24	7/18	4:30	G	X									X	
MW-25	7/18	5:00	G	X									X	

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

Sample Disposal: ☐ Return to Client ☐ Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

Turn Around Time Required (Prior lab approval required for expedited TAT.): ☐ Standard ☐ Rush (Specify)

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by: Brad D	7/21/03	8:00	1. Received by: Secure Area	7/21/03	8:00
2. Relinquished by: Secure Area	7-21-03	1015	2. Received by: Layne Anderson	7-21-03	1015
3. Relinquished by: Layne Anderson	7-21-03	1605	3. Laboratory received by: [signature]	7/21/03	1605

Comments

LAB USE ONLY
Received on ice (Circle) Yes No Ice Pack
Receipt Temp. 7.4 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-012 Effective Date: 08-04-02

Sample Receipt Checklist

Client: F+O Cooler Inspected by/date: [illegible] 7/21/03 Lot #: EG21019

Means of receipt: ☒ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Airborne Exp ☐ Other

Yes ☐	No ☒	NA ☐	1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☒	2. If custody seals were present, were they intact and unbroken?

Cooler temperature upon receipt 7.4 °C
Method: ☒ Temperature Blank ☐ Against Bottles
Method of coolant: ☒ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

If response is No (or Yes for 13,14,15), an explanation/resolution must be provided.

Yes ☐	No ☐	NA ☒	3. Is the shipper's packing slip attached to this form?
Yes ☒	No ☐	NA ☐	4. Were proper custody procedures followed?
Yes ☒	No ☐	NA ☐	5. Were sample IDs listed?
Yes ☒	No ☐	NA ☐	6. Was collection date & time listed?
Yes ☒	No ☐	NA ☐	7. Were tests to be performed listed on the COC or was quote # provided?
Yes ☒	No ☐	NA ☐	8. Did all samples arrive in the proper containers for each test?
Yes ☒	No ☐	NA ☐	9. Did all container labels agree with COC?
Yes ☒	No ☐	NA ☐	10. Did all containers arrive in good condition (unbroken)?
Yes ☒	No ☐	NA ☐	11. Was adequate sample volume available?
Yes ☐	No ☒	NA ☐	12. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☒	NA ☐	13. Were any samples containers missing?
Yes ☒	No ☐	NA ☐	14. Were there any excess samples not listed on COC?
Yes ☒	No ☐	NA ☐	15. Was headspace >6 mm present in any VOA vials?
Yes ☐	No ☐	NA ☒	16. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☒	17. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☒	18. Were all NH3/TKN/cyanide/BNA/pest/PCB/herb (<0.2 mg/L) and toxicity (<0.1 mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☒	19. Were collection temperatures documented on the COC for NC samples?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving.

Sample(s) 010, 023, 1 vial were received with headspace >6 mm in diameter.

Sample(s) _____ were received with TRC >0.2 mg/L for NH3/TKN/cyanide/BNA/pest/PCB/herb.

Toxicity sample(s) _____ were received with TRC >0.1 mg/L and were analyzed by method 330.5.

Corrective Action taken, if necessary:

Was client notified: Yes ☐ No ☐
Did client respond: Yes ☐ No ☐
Date of response: _____
SESI employee: _____
Comments:
* PW1, PW2, RW1 extra; added to end of lot per fof

APPENDIX C

Souther's Grocery
Soil and Groundwater Disposal Manifest

Type or print in ink (12-pitch typewriter).

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: C E S Q G
Manifest Doc. No.: 9 8 0 1 8
2. Page 1 of 1

3. Generator's Name and Mailing Address
FUSS & O'NEIL
1419 RICHLAND STREET
COLUMBIA, SC. 29201

4. Generator's Phone ((803) 376-8034

5. Transporter 1 Company Name: TRANSGLOBAL
6. US EPA ID Number: S C R 0 0 0 7 5 5 1 5
A. Transporter's Phone: 843-563-8916

7. Transporter 2 Company Name
8. US EPA ID Number
B. Transporter's Phone

9. Designated Facility Name and Site Address
EAGLE DISPOSAL INC.
38 CLEARWATER DR.
WALTERBORO, SC, 29488
10. US EPA ID Number
C. Facility's Phone: (843) 899-2580

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. MONITORING WELL WASTE NON HAZARDOUS NON REGULATED GLO-01943	2	Dm	110	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
A. GLO-01943 Southers Grocery c.
B. D.

E. Handling Codes for Wastes Listed Above
12650288 TH

15. Special Handling Instructions and Additional Information
Send CD to Global
24 Hour Emergency: Globals Chemtel: 1-800-255-3924
Non Emergency: Global, 1-843-563-8916 and BRAD DeFEE, (803) 376-8034

16. 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.
Printed/Typed Name | Signature | Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Tony Adams | Signature: Tony Adams | Month Day Year: 08 18 03

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

19. Discrepancy Indication Space
Pending QC

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Patricia S. Smith | Signature: Patricia S. Smith | Month Day Year: 08 19 03

GENERATOR 1 | TRANSPORTER | FACILITY

Printed by J. J. KELLER & ASSOCIATES, INC. Neenah, WI 54957-0368

12-BLS-C5 Rev. 12/98

TRANSPORTER #1

RECEIVED

NOV 0 8 2002

UNDERGROUND STORAGE
TANK PROGRAM

TIER II REPORT

Souther's Grocery
Goodjoin and Mt. Lebanon Rd
Campobello, South Carolina
UST Permit No.: 08650

November 5, 2002

Prepared by:

NESCO, Inc.
Ingenuity at Work

521 Clemson Road
Columbia, SC
29229

NESCO Project No.: 21-1768A

UST DOCKET 09T

Ingenuity At Work

NESCO

NESCO, Inc.
521 Clemson Road
Columbia, South Carolina 29229
Telephone 803-699-1976

Telefax 803-699-9863
Toll Free 1-800-379-3688

www.nesco-usa.com

November 6, 2002

Paula Anderson
SCDHEC
Division of UST Management
SCDHEC
2600 Bull St.
Columbia, SC 29201

RECEIVED
NOV 08 2002
UNDERGROUND STORAGE TANK PROGRAM

Re: Tier II Assessment Report
Souther's Grocery
Spartanburg County
SCDHEC Site ID #08650
NESCO Project No. 21-1768A

Dear Ms. Anderson:

Please find enclosed the Tier II Assessment Report for the above referenced site.

If you have any questions or concerns regarding this report, please call me at (803) 699-1976.

Sincerely,
NESCO, Inc.

Brad Defee
Environmental Scientist

Enclosure: Tier II Assessment Report

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1 INTRODUCTION

This report presents the findings of a Tier II Assessment of soil and groundwater contamination at the Souther's Grocery site located at the intersection of Goodjoin and Mt. Lebanon Rd.. (Figure 1) located in Campobello, Spartanburg County, SC (GWPD Site No.: 08650). This site is presently owned by:

Mr. George Souther
280 Goodjoin Rd.
Campobello, SC, SC 29322-9187

This assessment was conducted by:

NESCO
521 Clemson Road
Columbia, SC 29229
Phone: (803)-699-1976

The Tier II Work Plan was approved on October 15, 2001 in a correspondence from Ms. Paul Anderson of the SCDHEC Bureau of UST Management. The Cost Proposal number issued for this project is CP#7717.

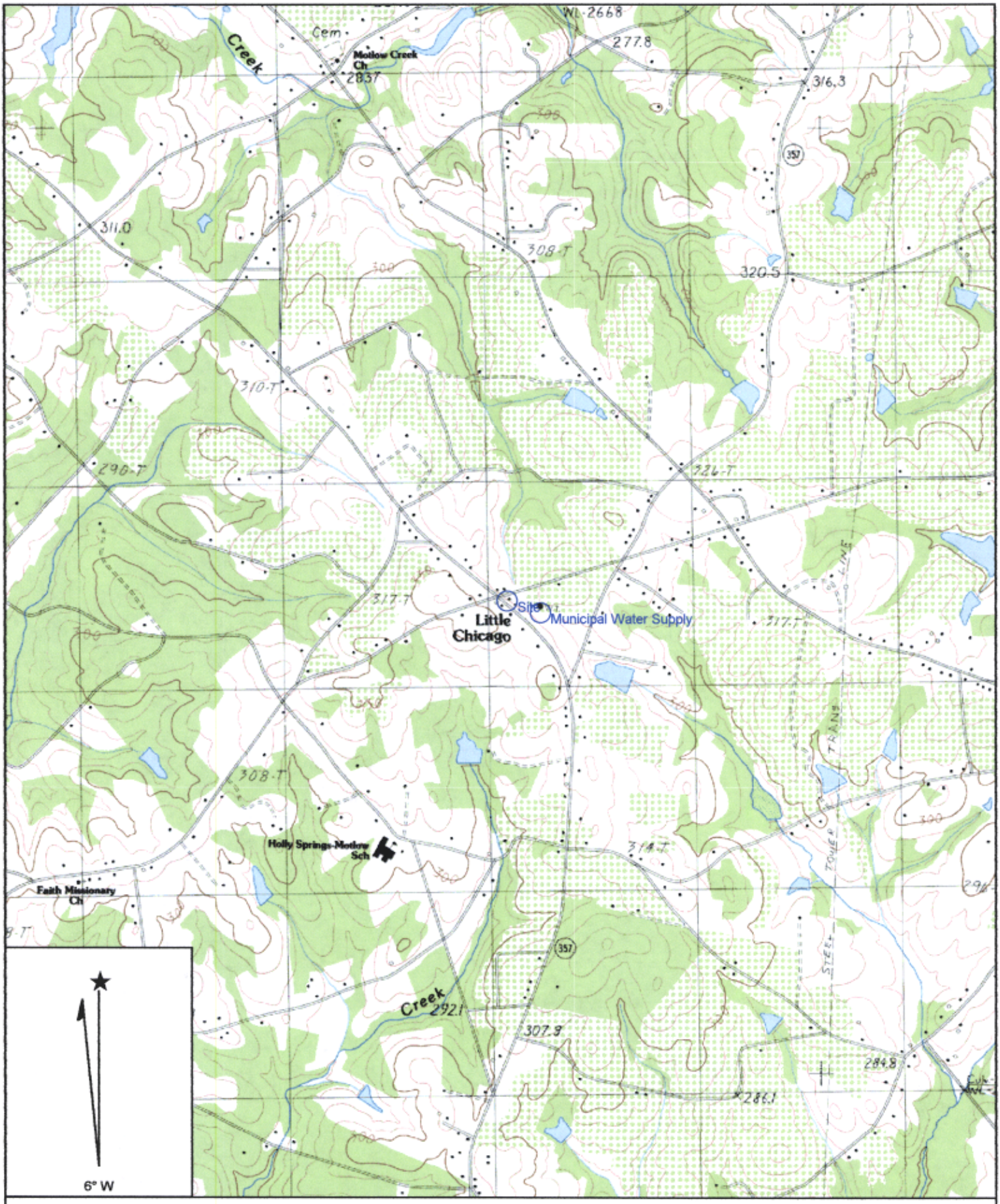
The site (Figure 2) is located at the intersection of Goodjoin Rd. and Mt. Lebanon Rd, in Campobello, Spartanburg County, SC.

1.1 Regional Geology & Hydrogeology

The Souther's Grocery site is located in the Piedmont Physiographic Province of South Carolina. This province consists of several distinct belts of rocks including the Inner Piedmont, Kings Mountain, Charlotte, Carolina Slate, Kiokee and Belair belts. Rocks beneath the subject facility appear to lie within the Inner Piedmont Belt. The Inner Piedmont Belt occurs laterally across northwestern South Carolina, extending to the northeast into North Carolina and to the southwest into Georgia.

The Inner Piedmont Belt is generally comprised of rocks of medium to high metamorphic grade, which include granitic gneiss, mica schist, sillimanite schist and amphibolite. Soils within the Piedmont Physiographic Province are generally the product of intense chemical weathering over geologic time. The resultant soil, commonly referred to as saprolite, often retains relict textures from the parent rock and can be useful during geologic mapping.

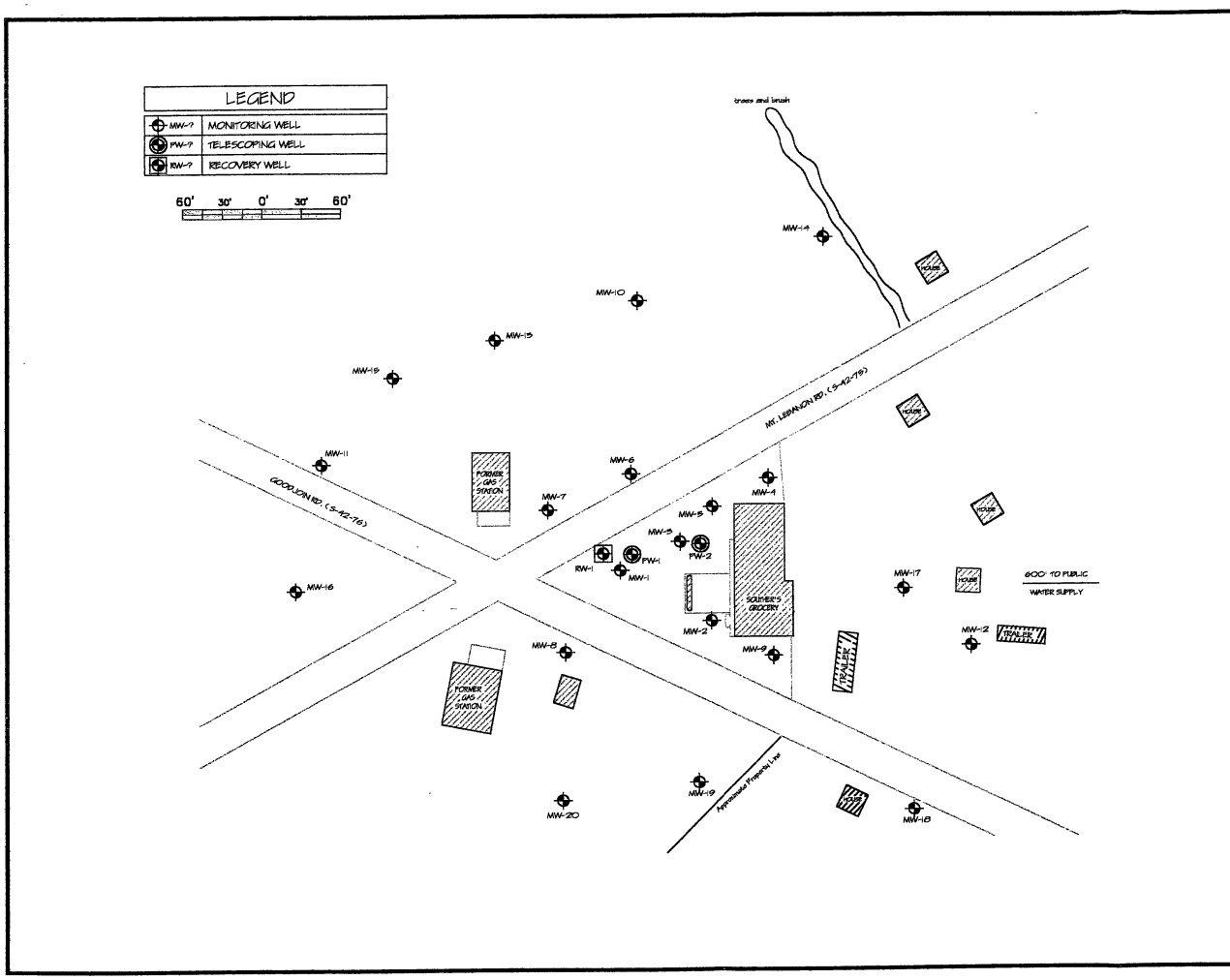
Based on information derived from the USGS Campobello Quadrangle 7.5 Minute Series Topographic Map (1983), the site has an elevation of approximately 330 feet above Mean Sea Level (MSL). The site lies 250 feet south of an unnamed tributary to Motlow Creek, which drains into the Pacolet River.



Name: CAMPOBELLO
Date: 11/4/2002
Scale: 1 inch equals 2000 feet

Location: 035° 03' 44.8" N 082° 11' 01.6" W
Caption: Figure 1 Site Location Map
UST Permit #08650
Campobello, SC

Copyright (C) 1997, Maptech, Inc.



NESCO
Ingenuity At Work

NESCO, Inc.
521 CLEMSON ROAD
COLUMBIA, SOUTH CAROLINA 29229, US
PHONE: 803.699.1976
FAX: 803.699.9863

FIGURE 2

SITE MAP
GWPD #08650

SOUTHER'S GROCERY
Goodjoin &
Mt. Lebanon Rd.
CAMPOBELLO, SC

PROJ. MGR.:	JBD
DES. BY:	JBD
DRAWN:	JBD
APPR:	JG
SCALE:	GRAPHIC
DATE:	10/31/02

REFERENCES

NOTES

REPORT: 21-1768
FILE: SITE MAP

1.2 Receptor Survey

To evaluate the potential for exposure of the surrounding population and environment to chemicals of concern (COC), a receptor survey was conducted for the site and surrounding properties within a 1,000 foot radius of the area of investigation. The scope of the survey is provided in the table below:

RECEPTOR	AREA OF SEARCH RADIUS
Wells (drinking and non-drinking water wells)	1000 feet
Surface waters (potential wetlands, creeks, streams, etc.,)	500 feet
Basements (residential and non-residential structures)	500 feet
Underground utilities (water, sewer, telephone, electric, etc.,)	250 feet

Receptors found are as follows:

- A well is located on the Souther's Grocery site. This well was formerly used to wash vehicles. Reportedly the well is not currently used. The well is located under the main building and is only accessible by the crawl space. To NESCO, Inc.'s knowledge, this well has never been abandoned.
- A municipal water supply well is located 700 feet east southeast of the site.
- A tributary to Motlow Creek is located approximately 250 feet north northeast of the site.

Groundwater beneath the site appears to flow in a westerly direction towards Dorchester Creek.

The depths to utility line trenches are estimated at 3 to 5 feet below grade. The depth to groundwater during the Tier II well sampling event revealed that groundwater is located between 12 and 32 feet.

2 ASSESSMENT INFORMATION

2.1 Site Specific Geology and Hydrogeology

The Souther's site is located within the Piedmont Physiographic Province of South Carolina. The site appears to lie within the Inner Piedmont Belt which is generally comprised of rocks of medium to high metamorphic grade. Site specific geology consists of a micaous clayey silty sand (high in minerals) varying in color from yellowish orange (near surface) to tan-red-brown saprolite at the deepest investigated depth of 75 feet.

Site hydrogeology is somewhat unusual in that groundwater flows in two directions. The primary flow direction of groundwater is to the southeast along Goodjoin Road. A secondary flow direction of groundwater is to the northeast. The site is perched on a knoll and groundwater appears to be influenced by two separate hydraulic draws. The eastern (upper) most part of the site is influenced by the elevations at an unnamed pond located approximately 2,000 feet southeast of the site. This discharge from this pond is a tributary of the North Tyger River. The western (lower) most part of the site is influenced by a tributary of Motlow creek located approximately 250 feet to the north of the site. Motlow creek discharges into the Pacolet River approximately 5 miles east. Pacolet River discharges into Lake William C Bowen.

Current potentiometric data indicates groundwater flowing in a south southeasterly direction (Figure 4).

2.2 Site Assessment Activities and Results

Assessment activities began in July 2002 and concluded in September 2002. During this period, NESCO personnel gauged the depth to groundwater in all permanent groundwater monitoring wells, collected groundwater and soil samples, performed a slug test, surveyed the site, installed eight monitoring wells and fourteen soil field screening borings, and conducted the receptor survey.

2.2.1 Field Screening

Fourteen field screening borings (SB-1 thru SB-14) were installed in July and August 2002 to a depth ranging from 20 to 30 feet. Soils were field screened at five-foot intervals for organic vapor content with an organic vapor analyzer (OVA). Field screening locations are displayed in Figure 3. Field screening results are included in the soil boring logs (Appendix C).

2.2.2 Soil Sampling and Analytical Results

Soil samples for laboratory analyses were obtained from seven locations (SB-1, SB-3, SB-5, SB-6, SB-7, SB-8, and SB-9) during the Tier II assessment. Samples from these boring locations were analyzed for benzene, toluene, ethylbenzene, xylenes (BTEX), and naphthalene. SB-6 was detected as having 4.9 ppm of xylenes with the other parameters having concentrations below detection limits. BTEX and naphthalene were not detected in all other samples collected from any other soil borings. Soil analytical results are depicted in Table 1, and figure 3. Soil analytical data sheets are located in Appendix A. Soil boring logs are located in Appendix C.

Souther's Grocery (GWPD Site No.: 08650)								
CoC	RBSL	SB-1	SB-3	SB-5	SB-6	SB-7	SB-8	SB-9
Benzene	374	<8.2	<6.8	<6.4	<4.9	<5.1	<6.0	<5.8
Toluene	24,170	<8.2	<6.8	<6.4	<4.9	<5.1	<6.0	<5.8
Ethyl benzene	2,229,000	<8.2	<6.8	<6.4	<4.9	<5.1	<6.0	<5.8
Xylenes	353,600	<8.2	<6.8	<6.4	4.9	<5.1	<6.0	<5.8
Naphthalene	584	<8.2	<6.8	<6.4	<4.9	<5.1	<6.0	<5.8

Table 1: SOIL ANALYTICAL TABLE

All results expressed in ug/kg.

2.2.3 Monitoring Well Installation, Sampling and Testing

Eight permanent groundwater-monitoring wells (MW-14 through MW-20, and PW-2) were installed during July and August 2002. Each of the newly installed wells was developed by surging and pumping. NESCO personnel surveyed the new monitoring wells on August 29, 2002. Monitoring well logs and construction diagrams are located in Appendix B.

Sampling of the groundwater in the previously installed wells and the eight newly installed wells occured on August 29 and 30, 2002. Water levels, pH, conductivity, temperature, and dissolved oxygen were measured in the field. Each sample was obtained using a new polyethylene bailer. Based upon the static water levels taken on 8/30/02 and surveyed top of casing elevations, groundwater elevations were calculated and a potentiometric surface map was created. The potentiometric map is displayed as Figure 4. Groundwater elevation data and hydraulic conductivities are located in Table 2.

The laboratory analytical results from the sampling events indicated the presence of benzene, ethylbenzene, lead, and naphthalene in concentrations above the applicable RBSL / MCL in the shallow aquifer beneath the site. A summary of groundwater analytical results is presented in Table 3 and Figure 5. Laboratory analytical data sheets are located in Appendix A.

Souther's Grocery (UST Permit No.: 08650)								
STATION	DATE MEASURED	TOC ELEVATION (Feet)	SCREEN INTERVAL (Feet)	DEPTH TO PRODUCT (Feet)	DEPTH TO WATER (Feet)	PRODUCT THICKNESS (Feet)	GW ELEVATION (Feet)	HYDRAULIC CONDUCTIVITY (cm/sec)
MW-1	8/30/02	96.5	7-17	ND	dry	NA	NA	NM
MW-2	8/30/02	99.98	7-17	17.35	17.45	0.1	ND	NM
MW-3	8/30/02	97.02	9-19	ND	dry	NA	NA	6.9×10^{-4}
MW-4	8/30/02	91.37	9-19	ND	17.71	NA	73.66	NM
MW-5	8/30/02	93.54	9.5-19.5	18.80	19.01	0.21	74.36	4.7×10^{-4}
MW-6	8/30/02	92.1	9-19	16.82	16.64	0.18	75.6	NM
MW-7	8/30/02	95.4	9-19	ND	dry	NA	NA	3.5×10^{-4}
MW-8	8/30/02	99.71	9-19	ND	dry	NA	NA	NM
MW-9	8/30/02	100.0	14-24	ND	dry	NA	NA	NM
MW-10	8/30/02	89.99	7-17	ND	15.65	NA	74.34	NM
MW-11	8/30/02	96.81	13-23	21.38	22.15	0.67	75.2	NM
MW-12	8/30/02	94.64	15-25	ND	23.27	NA	71.37	NM
MW-13	8/30/02	89.36	5-15	ND	dry	NA	NA	NM
MW-14	8/30/02	86.13	10-25	ND	13.53	NA	72.6	NM
MW-15	8/30/02	87.34	10-25	ND	12.68	NA	74.66	1.4×10^{-3}
MW-16	8/30/02	98.91	15-35	ND	23.88	NA	75.03	NM
MW-17	8/30/02	94.55	15-35	ND	21.3	NA	73.25	NM
MW-18	8/30/02	101.00	15-35	ND	29.62	NA	71.38	NM
MW-19	8/30/02	104.73	20-40	ND	31.1	NA	73.63	NM
MW-20	8/30/02	106.90	16-36	ND	32.96	NA	73.94	NM
RW-1	8/30/02	96.29	15-30	20.61	25.1	4.49	74.78	NM
PW-1	8/30/02	97.96	45-47	ND	21.93	NA	76.03	NM
PW-2	8/30/02	97.59	70-75	ND	23.45	NA	74.14	NM

Table 2: SUMMARY OF GROUNDWATER ELEVATIONS AND HYDRAULIC CONDUCTIVITIES

Notes: NM - Not Measured
ND – Not Detected
NA - Not Applicable

Souther's Grocery (UST Permit No.: 08650)								
Sample Location:	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	RBSL
Sample Date:	8/30/02	8/30/02	8/30/02	8/30/02	8/30/02	8/30/02	8/30/02	
Benzene	Dry	FP	Dry	<5.0	FP	FP	Dry	5
Toluene	Dry	FP	Dry	<5.0	FP	FP	Dry	1,000
Ethylbenzene	Dry	FP	Dry	<5.0	FP	FP	Dry	700
Xylenes	Dry	FP	Dry	<5.0	FP	FP	Dry	10,000
Naphthalene	Dry	FP	Dry	<20.0	FP	FP	Dry	25
MTBE	Dry	FP	Dry	<5.0	FP	FP	Dry	40
Lead	Dry	FP	Dry	NA	FP	FP	Dry	0.015
EDB	Dry	FP	Dry	NA	FP	FP	Dry	
Organic lead	Dry	FP	Dry	NA	FP	FP	Dry	
Dissolved oxygen	Dry	FP	Dry	NA	FP	FP	Dry	
Ferrous Iron	Dry	FP	Dry	NA	FP	FP	Dry	
Sulfate	Dry	FP	Dry	NA	FP	FP	Dry	
Nitrate	Dry	FP	Dry	NA	FP	FP	Dry	
Methane	Dry	FP	Dry	NA	FP	FP	Dry	

NOTES:

All concentrations reported in micrograms per liter (ug/L), with the exception of Lead, Iron, Nitrate, and Sulfate, concentrations reported in milligrams per liter (mg/L).
DO is measured in mg/l
NA - Not Analyzed
BDL - Not Detected (below laboratory minimum detection limits) ;
Bold type represents concentrations above RBSL

Table 3: GROUNDWATER QUALITY DATA

Souther's Grocery (UST Permit No.: 08650)									
Sample Location:	MW-8	MW-9	MW-10	MW -11	MW-12	MW-13	MW-14	MW-15	RBSL
Sample Date:	8/30/02	8/30/02	8/29/02	8/29/02	8/29/02	8/29/02	8/29/02	8/29/02	
Benzene	Dry	Dry	<5.0	FP	<5.0	Dry	<5.0	**200**	5
Toluene	Dry	Dry	<5.0	FP	<5.0	Dry	<5.0	<5.0	1,000
Ethylbenzene	Dry	Dry	<5.0	FP	<5.0	Dry	<5.0	<5.0	700
Xylenes	Dry	Dry	<5.0	FP	<5.0	Dry	7.5	170	10,000
Naphthalene	Dry	Dry	<5.0	FP	<5.0	Dry	<5.0	17	25
MTBE	Dry	Dry	<5.0	FP	<5.0	Dry	<5.0	<5.0	40
Lead	Dry	Dry	**1.0**	FP	**0.087**	Dry	**0.036**	<0.003	0.015
EDB	Dry	Dry	<0.021	FP	<0.020	Dry	<0.019	<0.02	
Organic lead	Dry	Dry	<500	FP	<500	Dry	<500	<500	
Dissolved oxygen	Dry	Dry	1.75	FP	1.62	Dry	0.98		
Ferrous Iron	Dry	Dry	0.58	FP	1.0	Dry	0.23	0.12	
Sulfate	Dry	Dry	6.4	FP	<1.0	Dry	1.8	3.9	
Nitrate	Dry	Dry	<0.020	FP	0.020	Dry	0.33	0.51	

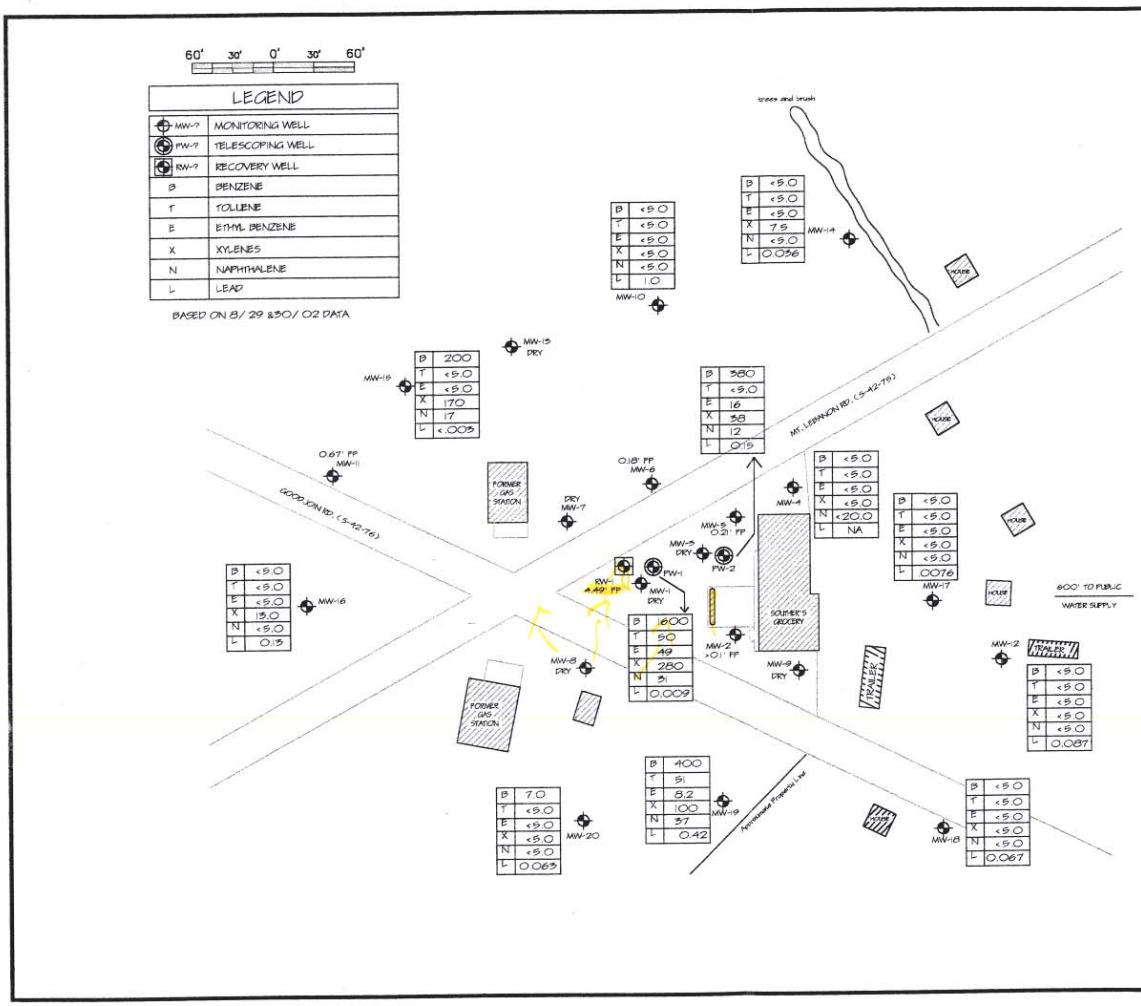
NOTES:

All concentrations reported in micrograms per liter (ug/L), with the exception of Lead, Iron, Nitrate, and Sulfate, concentrations reported in milligrams per liter (mg/L).
DO is measured in mg/l
NA - Not Analyzed
BDL - Not Detected (below laboratory minimum detection limits) :
Bold type represents concentrations above RBSLs

Souther's Grocery (UST Permit No.: 08650)									
Sample Location:	MW-16	MW-17	MW-18	MW -19	MW-20	PW-1	PW-2	RW-1	RBSL
Sample Date:	8/29/02	8/29/02	8/29/02	7/25& 8/29/02	7/25& 8/29/02	8/30/02	8/30/02	8/30/02	
Benzene	<5.0	<5.0	<5.0	**400**	**7.0**	**1600**	**380**	FP	5
Toluene	<5.0	<5.0	<5.0	51	<5.0	50	<5.0	FP	1,000
Ethylbenzene	<5.0	<5.0	<5.0	8.2	<5.0	49	16	FP	700
Xylenes	13	<5.0	<5.0	100	<5.0	280	38	FP	10,000
Naphthalene	<5.0	<5.0	<5.0	**37**	<5.0	**31**	12	FP	25
MTBE	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	FP	40
Lead	**0.13**	0.0076	**0.067**	**0.42**	**0.063**	0.0089	**0.15**	FP	0.015
EDB	<0.020	<0.019	<0.020	<0.019	<0.019	<0.019	<0.020	FP	0.05
Organic lead	<500	<500	<500	<500	<500	<500	<500	FP	N/A
Dissolved oxygen	2.2	1.87	2.32	2.24	1.62	1.88	1.67	FP	N/A
Ferrous Iron	0.16	0.15	0.24	0.72	5.9	1.5	0.45	FP	N/A
Sulfate	1.5	1.6	2.1	3.3	3.8	8.0	10	FP	N/A
Nitrate	1.8	13	15	<0.02	<0.020	<0.02	<0.020	FP	N/A

NOTES:

All concentrations reported in micrograms per liter (ug/L), with the exception of Lead, Iron, Nitrate, and Sulfate, concentrations reported in milligrams per liter (mg/L).
DO is measured in mg/l
NA - Not Analyzed
BDL - Not Detected (below laboratory minimum detection limits) :
Bold type represents concentrations above RBSLs
N/A – Not Applicable



NESCO
Ingenuity At Work

NESCO, Inc.
521 CLEMSON ROAD
COLUMBIA, SOUTH CAROLINA 29229, USA
PHONE: 803.699.1976
FAX: 803.699.9863

FIGURE 5

GROUNDWATER COC MAP
GWPD #08650

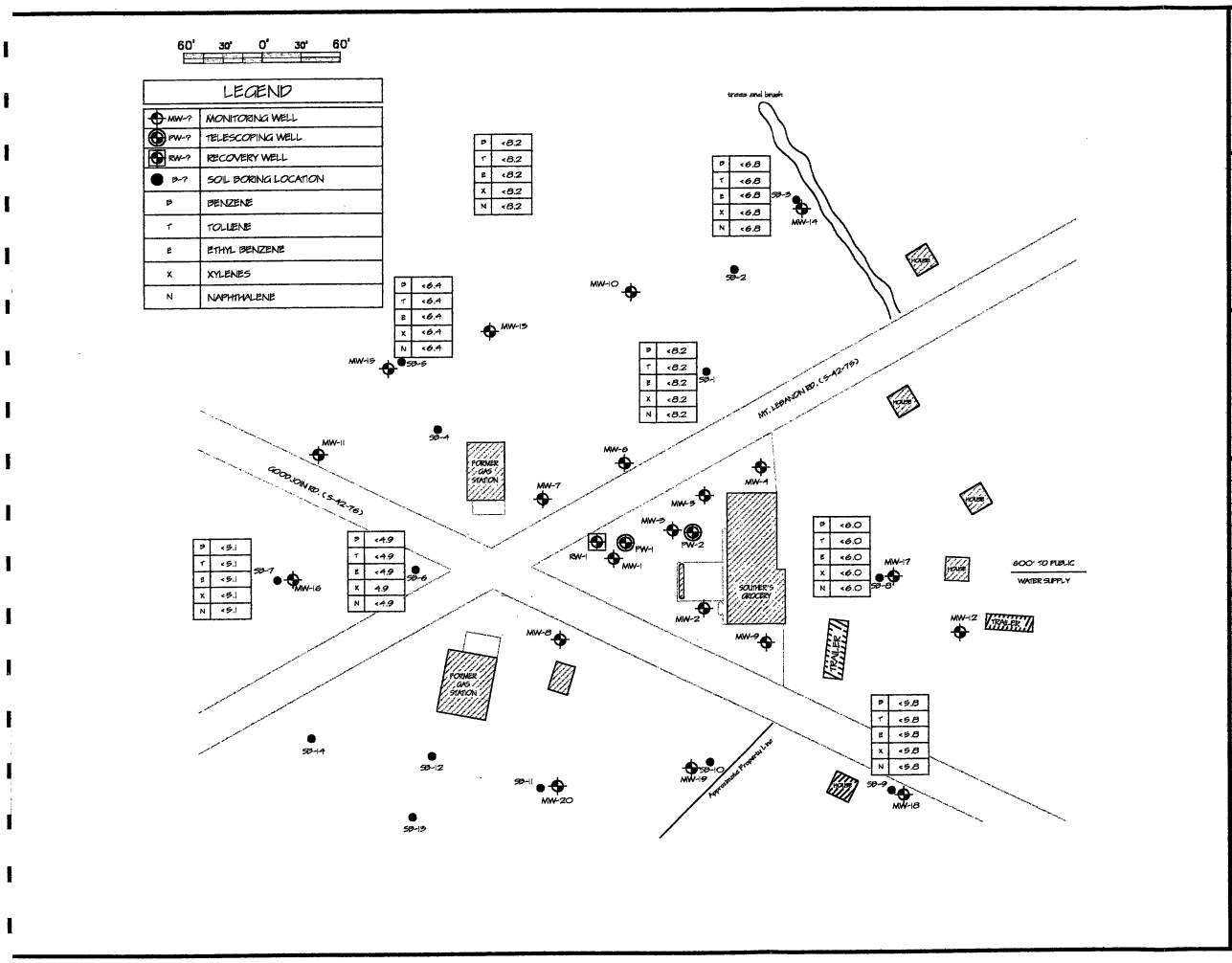
SOUTHER'S GROCERY
Goodjoin &
Mt. Lebanon Rd.
CAMPOBELLO, SC

PROJ. MGR.: JBD
DES. BY: JBD
DRAWN: JBD
APPR: JG
SCALE: GRAPHIC
DATE: 10/31/02

REFERENCES

NOTES

REPORT: 21-1768
FILE: GROUNDWATERCOCMAP



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591 CLEMSON ROAD
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FIGURE 3

SOIL COC MAP
GWPD #08650

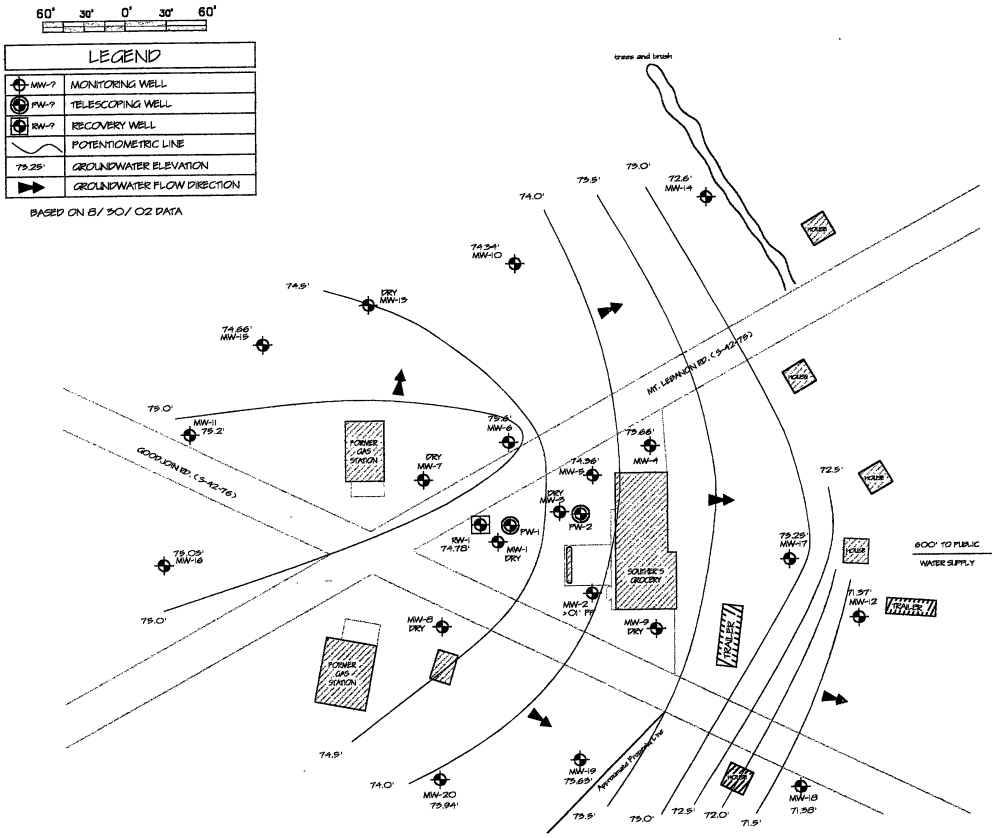
SOUTHER'S GROCERY
Goodjoin &
Mt. Lebanon Rd.
CAMPOBELLO, SC

PROJ. MGR.:	JBD
DES. BY:	JBD
DRAWN:	JBD
APPR:	JG
SCALE:	GRAPHIC
DATE:	10/31/02

REFERENCES

NOTES

REPORT: 21-1768
FILE: SOIL COC MAP



NESCO
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321 CLEMSON ROAD
COLUMBIA, SOUTH CAROLINA 29229, US
PHONE: 803.699.1976
FAX: 803.699.9863

FIGURE 4

POTENTIOMETRIC SURFACE MAP
GWPD #08650

SOUTHER'S GROCERY
Goodjoin &
Mt. Lebanon Rd.
CAMPOBELLO, SC

PROJ. MGR.:	JBD
DES. BY:	JBD
DRAWN:	JBD
APPR:	JG
SCALE:	GRAPHIC
DATE:	10/31/02

REFERENCES

NOTES

REPORT: 21-1768
FILE: FIG4POTMAP

2.2.4 Aquifer Evaluation

One slug test was conducted in monitor well MW-16 on August 30, 2002 to determine the hydraulic characteristics of the water table aquifer. The groundwater elevation at the well location was gauged with an electronic water level indicator probe and compared to the surveyed top of casing. The slug test was performed by rapidly removing a double bailer of water and measuring the resultant stress (rise vs. time) on the aquifer with an electronic water level indicator and a stopwatch.

The slug test data was analyzed using the modified Bouwer and Rice Methodology (1989). The results of the slug test are summarized in Table 1. The permeability (hydraulic conductivity) of the water table aquifer was calculated to be 1.4×10^{-3} cm/sec (3.8 ft/day). Slug test data and calculations are included in Appendix E.

$$V = (i * K)/Ne$$

Groundwater velocity was determined by using the average of the hydraulic conductivity (K) values at 3.8 ft/day. A value of 0.30 was used for the effective porosity (Ne) and was determined as an estimate for silty clay. The hydraulic gradient (i) was measured as 0.007 ft/ft based on the water level gauging event conducted on 8/30/02. Therefore, the average groundwater velocity near the plume is calculated to be 0.09 ft/day or 32.85 feet/year.

A potentiometric surface map (Figure 4) was generated and the groundwater flow direction was estimated. Groundwater flow within the surficial aquifer appears to be generally toward the south southeast.

2.3 Fate and Transport Modeling

The basis for discussion about the contaminant plume migration is the EPA (1996) developed program called BIOSCREEN Natural Attenuation Decision Support System (BIOSCREEN). It is used in concert with Environmental Degradation Rates by Howard et. al. (1991) to quantify potential reductions in chemicals of concern (CoC) levels for the site. The modeling effort was performed to estimate the predicted horizontal, down gradient extent of the identified CoC. Five separate CoC were identified during this assessment and subsequently modeled. The CoC are benzene, toluene, ethylbenzene, xylenes, and naphthalene.

The modeling was conducted using the following assumptions: (1) the modeled area length was set at 600 feet, which is the approximate distance from source to the receptor, (2) the municipal water supply well was used as the receptor, (3) MW-2 was used as the source of the release for all CoC, (4) the hydrogeology is as determined in Section 2.2.4 of this report; (5) the simulation time used was 40 years; (6) The half lives used represent low aerobic half-life values as contained within the Handbook of Environmental Degradation Rates - Howard et al. 1991.

The BIOSCREEN models used for this assessment were the Instantaneous Reaction (IR) models and First Order of Decay (1st OD). This model takes into consideration the environment of degradation acting on the dissolved constituents in the source zone and plume. Sufficient data was gathered to make the IR model, using site-specific nutrient data or half-lives, reliable for fate and transport determinations.

The findings of the modeling indicate that ethyl-benzene, xylenes, and naphthalene will not exceed the RBSL at the receptor at the current concentrations. A summary of the modeling data is provided in the Table 4 found below. BIOSCREEN input parameters can be found in Table 5. BIOSCREEN model output data sheets and maximum plume migration data sheets are located in Appendix F.

COC	Concentration Value Used (ug/l)	RBSL (ug/l)	Maximum Extent of Plume Migration (above RBSL)
Benzene	226,000	5	1,350 ft. (IR)
Toluene	301,000	1,000	1,125 ft (IR)
Ethylbenzene	280,000	700	1,000 ft. (IR)
Xylene	278,000	10,000	520 ft (IR)
Napthalene	2,000	25	132 ft (IR)

Table 4: PREDICTED MIGRATION AND ATTENUATION OF COC

Table 5: FATE AND TRANSPORT MODEL INPUT PARAMETERS

Souther's Grocery. (GWPD No.: 08650)		
Seepage Velocity	17.6 ft/yr	see Section 2.2.4
Hydraulic Conductivity	7.3 X 10^{-4} cm/sec	see Section 2.2.4
Porosity	0.30	see Section 2.2.4
Estimated Plume Length	450	Based on individual extent of plume maps
Soil Bulk Density	1.65 kg/l	recommended by model's User Manual
Partition Coefficient - Benzene	81 l/kg	SCDHEC "RBCA for Petroleum Releases"
Partition Coefficient - Toluene	133 l/kg	SCDHEC "RBCA for Petroleum Releases"
Partition Coefficient - Ethylbenzene	176 l/kg	SCDHEC "RBCA for Petroleum Releases"
Partition Coefficient - Xylene	639 l/kg	SCDHEC "RBCA for Petroleum Releases"
Partition Coefficient - Napthalene	1543 l/kg	SCDHEC "RBCA for Petroleum Releases"
Partition Coefficient - MTBE	0 l/kg	As per guidance by SCDHEC
Fraction Organic Carbon	.001	recommended by model's User Manual
Solute Half-Life (benzene @ aerobic low degradation)	0.014 years	Environmental Degradation Rates by Howard et. al. (1991)
Solute Half-Life (toluene @ high aerobic low degradation)	0.011 years	Environmental Degradation Rates by Howard et. al. (1991)
Solute Half-Life (ethylbenzene @ aerobic low degradation)	0.008years	Environmental Degradation Rates by Howard et. al. (1991)
Solute Half-Life xylenes @ high aerobic low degradation)	0.019 years	Environmental Degradation Rates by Howard et. al. (1991)
Solute Half-Life (naphthalene @ aerobic low degradation)	0.001 years	Environmental Degradation Rates by Howard et. al. (1991)
Solute Half-Life (MTBE @ high aerobic low degradation)	0.077 years	Environmental Degradation Rates by Howard et. al. (1991)
Delta Oxygen	3.87 mg/l	average background concentration minus the lowest observed concentration in the source area - recommended by model's User Manual)
Delta Nitrate	1.26 mg/l	average background concentration minus the lowest observed concentration in the source area - recommended by model's User Manual)
Observed Ferrous Iron	0.24 mg/l	average observed concentration
Delta Sulfate	2.74 mg/l	average background concentration minus the lowest observed concentration in the source area - recommended by model's User Manual)
Modeled Area Length	600 ft.	distance from the monitoring well representing the source to the receptor
Modeled Area Width	250 ft.	estimate - best professional judgment
Simulation Time	40 years	Estimated time when plume no longer increases in size (iteration)

TIER 1 EVALUATION

A site conceptual model for both current and projected future land use was developed to identify all complete exposure pathways using available site-specific assessment information. Exposure routes, mediums, and exposure points selected for evaluation included the ingestion of contaminated groundwater, direct dermal contact with contaminated soil and inhalation of volatile compounds. Each identified exposure pathway(s) was evaluated for both current (Table 6) and future land use (Table 7).

Table 5: SITE CONCEPTUAL MODEL (Current Land Usage)

Souther's Grocery. (GWPD No.: 08650)				
Media (for exposure)	**Exposure Route**	**Pathway Selected for Evaluation?**	**Exposure point/reason for non-selection**	**Data Requirements (if pathway is selected)**
Air	Inhalation Explosion Hazard	**Yes** **Yes**	Potential exposure to VOCs during construction activites such as pipe line construction, basement construction, etc.	Remain below RBSLs for vapors and below 10% of the LEL.
Groundwater	Ingestion Dermal Contact Volatile Inhalation	**Yes** **Yes** **Yes**	Water Supply Well identified. Dermal contact possible during construction activities. Volatile inhalation possible during construction activites.	Ensure COCs remain below RBSLs.
Surface Water	Ingestion Dermal Contact Volatile Inhalation	**Yes** **Yes** **Yes**	There is potential for suface water contamination within the nearby ponds and the discharge creeks. No surface water assessment was conducted.	
Surficial Soil	Ingestion Dermal Contact Volatile Inhalation Leaching to Groundwater	**NO** **NO** **NO** **NO**	Surficial soil at the site did not appear to have been impacted from UST operations.	
Subsurface Soil	Ingestion Dermal Contact Volatile Inhalation Leaching to Groundwater	**NO** **NO** **NO** **NO**	Ingestion unlikely with subsurface soil Dermal contact unlikely with subsurface soil Volatile inhalation unlikely with subsurface soil. Groundwater contaminated,	Ensure COCs remain below RBSLs

Table 6: SITE CONCEPTUAL MODEL (Future Land Usage)

Souther's Grocery. (GWPD No.: 08650)				
Media (for exposure)	**Exposure Route**	**Pathway Selected for Evaluation?**	**Exposure point/reason for non-selection**	**Data Requirements (if pathway is selected)**
Air	Inhalation Explosion Hazard	**YES** **YES**	VOC emissions possible VOC emissions possible.	Remain below RBSL's for vapors and below 10% of the LEL.
Groundwater	Ingestion Dermal Contact Volatile Inhalation	**YES** **YES** **YES**	Future well installations possible. Future well installations possible. Future well installations possible.	Ensure COCs Remain below RBSL's.
Surface Water	Ingestion Dermal Contact Volatile Inhalation	**YES** **YES** **YES**	There is potential for surface water to be impacted if not contaminated at present time. No surface water assessment has been conducted to date.	
Surficial Soil	Ingestion Dermal Contact Volatile Inhalation Leaching to Groundwater	**No** **No** **No** **No**	Surficial soil at the site did not appear to have been impacted from UST operations.	
Subsurface Soil	Ingestion Dermal Contact Volatile Inhalation Leaching to Groundwater	**NO** **Yes** **Yes** **Yes**	Ingestion unlikely with subsurface soil . Groundwater contaminated,	Ensure COCs remain below RBSLs

3 TIER 2 EVALUATION

Based on the results of the site conceptual model, a Tier 2 risk evaluation was completed. Exposure points were established, points of compliance were identified and site-specific target levels (SSTLs) were calculated for each identified exposure point.

3.1 Establishing Exposure Points

The exposure pathways identified in Section 2.0 include ingestion, dermal contact, and inhalation of volatiles from groundwater and soils.

The exposure point for ingestion, dermal contact, and inhalation of volatiles is: the potential for bioaccumulation of petroleum hydrocarbon compounds in aquatic species of the nearby ponds and discharge creeks; the potential for the use of existing onsite well in the future; the potential for the use of unknown area wells in the present or future; and the potential for the construction of drinking supply well within the area of the site in the future. The exposure point used for the fate and transport model is the town water supply well to the worst-case well, MW-2. The exposure point is displayed on Figure 2.

3.2 Establishing Points of Compliance

Three exposure pathways are identified in Section 3.1 and include ingestion, dermal contact, and inhalation of volatiles from groundwater. Groundwater monitoring well MW-2 was chosen as the compliance point for all CoCs based upon the free phase petroleum hydrocarbons in the well. The compliance point location is displayed on Figure 2.

3.3 Establishing the Site-Specific Target Levels (SSTLs)

SSTLs have been calculated for each CoC above the RBSL using BIOSCREEN. Groundwater was the only media for which SSTLs were calculated due to site conditions. Sufficient data was not available from this assessment to calculate SSTLs for exposure pathways such as (1) inhalation of volatiles pathway; and (2) dermal contact with contaminated soil pathway.

3.3.1 Groundwater Pathway

The BIOSCREEN was used to calculate the SSTLs for groundwater. NESCO determined the Site Specific Target Levels (SSTLs) for benzene, ethylbenzene, toluene, xylenes, MTBE, and naphthalene. The time frame used for SSTLs was the number of years in which each CoC reached its maximum extent. The modeling effort is summarized in the table below. SSTL calculations for all CoC were modeled from MW-2 to the water supply well approximately 600 feet. From the data provided below, each of the CoC is below its respective SSTL at present concentrations. The SSTL calculation data is provided in Appendix H.

Table 7: SSTL CALCULATIONS FOR GROUNDWATER

COC	*Existing Concentration*	*Predicted SSTL* Source (Well) Concentration	*Modeled Time (years)*	*Predicted Concentration at Receptor*	*RBSLs*
Benzene	226,000 ug/l	20,950 ug/l	40	4.0 ug/l (1st IR)	5 ug/l
Toluene	301,000 ug/l	83,000 ug/l	40	983 ug/l (1st IR)	1,000 ug/l
Ethylbenzene	280,000 ug/l	280,000 ug/l	40	0 ug/l (1st IR)	700 ug/l
Xylene	278,000 ug/l	278,000 ug/l	40	0 ug/l (1st IR)	10,000ug/l
Napthalene	2,000 ug/l	2,000 ug/l	40	0 ug/l (1st IR)	25 ug/l
MTBE	<5.0 ug/l	1,850 ug/l	40	38ug/l (1st IR)	40 ug/l

Notes:

Existing concentrations were taken from Henry's Law constant due to presence of free product.

4 CONCLUSIONS AND RECOMMENDATIONS

NESCO has completed a Tier II Assessment for the Souther's Grocery site located in Campobello, South Carolina. Data generated during this assessment indicated the presence of COC in groundwater above the RBSLs for benzene, ethylbenzene, lead, and naphthalene within the shallow aquifer beneath the site. Groundwater flow at the site appears to be to the west, at a rate of 3.0 ft/year.

The modeled receptor is the water supply well that is located approximately 600 feet from the site. MW-2 was used as the worse case or compliance well due to the free phase petroleum hydrocarbon found.

From information generated from the fate and transport modeling, there is a chance for petroleum constituents to reach the receptor at concentration levels above their respective RBSL. SSTLs for all COCs were calculated using BIOSCREEN.

Exposure pathways and potential exposure pathways, as further described in Section 3.0, were identified as ingestion, dermal contact, and inhalation of volatiles from groundwater and potentially surface waters. Insufficient data was available (as generated from activities under this assessment) to determine SSTLs for inhalation of volatiles pathway. The SSTLs were determined for groundwater by satisfying both the First Order of Decay and the Instantaneous Reaction models of the EPA developed software, BIOSCREEN. No reductions in ethyl benzene, xylenes, or naphthalene were deemed necessary to prevent an impact at the closest receptor.

Based upon a review of the data generated by this assessment, NESCO recommends the following:

A remediation design will need to be implemented to reduce current contamination levels within the shallow subsurface and incorporate a treatment for benzene contamination at the bedrock/saprolite interface.

A groundwater monitoring and surface water monitoring program be developed and implemented to monitor the conditions of the site and nearby ponds as documented within this report.

NESCO is pleased to provide consulting services to the Souther's Grocery site owned by George Souther, and welcomes the opportunity to answer questions concerning this report. Please direct any questions to Jeremy Grant or Brad Defee at (803) 699-1976.

Brad Defee
Environmental Scientist

Jeremy Grant, P. G.
SC Registration No. 2259

APPENDIX A

Laboratory Analytical Results

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

NESCO
521 Clemson Road
Columbia, SC 29229
Attention: Brad DeFee

Project Name: **21-1768 Sonther Grocery**

Project Number: **21-1768**

Lot Number: **DG27013**

Date Completed: **08/06/2002**

Jennifer Orr
Project Manager

This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

Shealy Environmental Services, Inc.
106 Vantage Point Drive Cayce, SC 29033 (803) 791-9700 Fax (803) 791-9111 www.shealyenvironmental.com

Case Narrative
NESCO
Lot Number: DG27013

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative.

Sample receipt, sample analysis, and data review have been performed in accordance with Shealy's Quality Assurance Management Plan and Standard Operating Procedures. Any data qualifiers associated with sample analysis are footnoted on the analytical results page(s) or are discussed below.

The volatile surrogate for toluene-d8 was recovered below the acceptance range due to matrix interference in sample 004.

SHEALY ENVIRONMENTAL SERVICES, INC.

Sample Summary
NESCO
Lot Number: DG27013

Sample Number	Sample ID	Matrix	Date Sampled
001	SB-1	Solid	07/23/2002 1330
002	SB-3	Solid	07/23/2002 1450
003	SB-5	Solid	07/23/2002 1545
004	SB-6	Solid	07/24/2002 0930
005	SB-7	Solid	07/24/2002 1100
006	SB-8	Solid	07/24/2002 1245
007	SB-9	Solid	07/24/2002 1400
008	MW-19	Aqueous	07/25/2002 0900
009	MW-20	Aqueous	07/25/2002 1000

(9 samples)

SHEALY ENVIRONMENTAL SERVICES, INC.

Executive Summary
NESCO
Lot Number: DG27013

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units
004	SB-6	Solid	Xylenes (total)	8260B	4.9		ug/kg
008	MW-19	Aqueous	Benzene	8260B	400		ug/L
008	MW-19	Aqueous	Ethylbenzene	8260B	8.2		ug/L
008	MW-19	Aqueous	Naphthalene	8260B	37		ug/L
008	MW-19	Aqueous	Toluene	8260B	51		ug/L
008	MW-19	Aqueous	Xylenes (total)	8260B	100		ug/L
009	MW-20	Aqueous	Benzene	8260B	7.0		ug/L

(7 detections)

Shealy Environmental Services, Inc.
106 Vantage Point Drive Cayce, SC 29033 (803) 791-9700 Fax (803) 791-9111 www.shealyenvironmental.com

Volatile Organic Compounds by GC/MS

Client: **NESCO**
Description: **SB-1**
Date Sampled: **07/23/2002 1330**
Date Received: **07/26/2002**

Laboratory ID: **DG27013-001**
Matrix: **Solid**
% Solids: **62.1** **07/29/2002 1452**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5035	8260B	1	07/30/2002 0421	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		8.2	ug/kg	1
Ethylbenzene	100-41-4	8260B	ND		8.2	ug/kg	1
Naphthalene	91-20-3	8260B	ND		8.2	ug/kg	1
Toluene	108-88-3	8260B	ND		8.2	ug/kg	1
Xylenes (total)	1330-20-7	8260B	ND		8.2	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	53-142
Bromofluorobenzene		91	47-138
Toluene-d8		79	68-124

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.
106 Vantage Point Drive Cayce, SC 29033 (803) 791-9700 Fax (803) 791-9111 www.shealyenvironmental.com

Volatile Organic Compounds by GC/MS

Client: **NESCO**
Description: **SB-3**
Date Sampled: **07/23/2002 1450**
Date Received: **07/26/2002**

Laboratory ID: **DG27013-002**
Matrix: **Solid**
% Solids: **65.9** **07/29/2002 1452**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5035	8260B	1	07/30/2002 0448	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		6.8	ug/kg	1
Ethylbenzene	100-41-4	8260B	ND		6.8	ug/kg	1
Naphthalene	91-20-3	8260B	ND		6.8	ug/kg	1
Toluene	108-88-3	8260B	ND		6.8	ug/kg	1
Xylenes (total)	1330-20-7	8260B	ND		6.8	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	53-142
Bromofluorobenzene		86	47-138
Toluene-d8		85	68-124

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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Volatile Organic Compounds by GC/MS

Client: **NESCO**
Description: **SB-5**
Date Sampled: **07/23/2002 1545**
Date Received: **07/26/2002**

Laboratory ID: **DG27013-003**
Matrix: **Solid**
% Solids: **66.9** **07/29/2002 1452**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5035	8260B	1	07/30/2002 0515	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		6.4	ug/kg	1
Ethylbenzene	100-41-4	8260B	ND		6.4	ug/kg	1
Naphthalene	91-20-3	8260B	ND		6.4	ug/kg	1
Toluene	108-88-3	8260B	ND		6.4	ug/kg	1
Xylenes (total)	1330-20-7	8260B	ND		6.4	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	53-142
Bromofluorobenzene		87	47-138
Toluene-d8		84	68-124

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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Volatile Organic Compounds by GC/MS

Client: **NESCO**
Description: **SB-6**
Date Sampled: **07/24/2002 0930**
Date Received: **07/26/2002**

Laboratory ID: **DG27013-004**
Matrix: **Solid**
% Solids: **86.0** **07/29/2002 1452**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5035	8260B	1	07/30/2002 0542	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		4.9	ug/kg	1
Ethylbenzene	100-41-4	8260B	ND		4.9	ug/kg	1
Naphthalene	91-20-3	8260B	ND		4.9	ug/kg	1
Toluene	108-88-3	8260B	ND		4.9	ug/kg	1
Xylenes (total)	**1330-20-7**	**8260B**	**4.9**		**4.9**	**ug/kg**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	53-142
Bromofluorobenzene		81	47-138
Toluene-d8		65	68-124

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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Volatile Organic Compounds by GC/MS

Client: **NESCO**
Description: **SB-7**
Date Sampled: **07/24/2002 1100**
Date Received: **07/26/2002**

Laboratory ID: **DG27013-005**
Matrix: **Solid**
% Solids: **78.4** **07/29/2002 1452**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5035	8260B	1	07/30/2002 0610	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		5.1	ug/kg	1
Ethylbenzene	100-41-4	8260B	ND		5.1	ug/kg	1
Naphthalene	91-20-3	8260B	ND		5.1	ug/kg	1
Toluene	108-88-3	8260B	ND		5.1	ug/kg	1
Xylenes (total)	1330-20-7	8260B	ND		5.1	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	53-142
Bromofluorobenzene		87	47-138
Toluene-d8		85	68-124

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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Volatile Organic Compounds by GC/MS

Client: **NESCO**
Description: **SB-8**
Date Sampled: **07/24/2002 1245**
Date Received: **07/26/2002**

Laboratory ID: **DG27013-006**
Matrix: **Solid**
% Solids: **69.2** **07/29/2002 1452**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5035	8260B	1	07/30/2002 0637	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		6.0	ug/kg	1
Ethylbenzene	100-41-4	8260B	ND		6.0	ug/kg	1
Naphthalene	91-20-3	8260B	ND		6.0	ug/kg	1
Toluene	108-88-3	8260B	ND		6.0	ug/kg	1
Xylenes (total)	1330-20-7	8260B	ND		6.0	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	53-142
Bromofluorobenzene		87	47-138
Toluene-d8		85	68-124

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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Volatile Organic Compounds by GC/MS

Client: **NESCO**
Description: **SB-9**
Date Sampled: **07/24/2002 1400**
Date Received: **07/26/2002**

Laboratory ID: **DG27013-007**
Matrix: **Solid**
% Solids: **74.0** **07/29/2002 1452**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5035	8260B	1	07/30/2002 0704	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		5.8	ug/kg	1
Ethylbenzene	100-41-4	8260B	ND		5.8	ug/kg	1
Naphthalene	91-20-3	8260B	ND		5.8	ug/kg	1
Toluene	108-88-3	8260B	ND		5.8	ug/kg	1
Xylenes (total)	1330-20-7	8260B	ND		5.8	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	53-142
Bromofluorobenzene		86	47-138
Toluene-d8		85	68-124

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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Volatile Organic Compounds by GC/MS

Client: **NESCO**
Description: **MW-19**
Date Sampled: **07/25/2002 0900**
Date Received: **07/26/2002**

Laboratory ID: **DG27013-008**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/05/2002 2208	RED		
2	5030B	8260B	10	08/02/2002 1352	LH		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	**71-43-2**	**8260B**	**400**		**50**	**ug/L**	**2**
Ethylbenzene	**100-41-4**	**8260B**	**8.2**		**5.0**	**ug/L**	**1**
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**37**		**5.0**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**51**		**5.0**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**100**		**5.0**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		130	70-130		81	70-130
Bromofluorobenzene		90	70-130		91	70-130
Toluene-d8		89	70-130		83	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **NESCO**
Description: **MW-20**
Date Sampled: **07/25/2002 1000**
Date Received: **07/26/2002**

Laboratory ID: **DG27013-009**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	08/02/2002 1416	LH		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	**71-43-2**	**8260B**	**7.0**		**5.0**	**ug/L**	**1**
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		86	70-130
Bromofluorobenzene		89	70-130
Toluene-d8		79	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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106 Vantage Point Drive
Cayce, South Carolina 29033
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

SHEALY Chain of Custody Record

Number 14326

Client: NESCO, Inc.	Project Manager: Brad Dufer	Telephone No. / Fax No. / E-mail	Quote No.
Address: 521 Clemson Rd.	Sampler's Signature: X Brad Dufer	Waybill No.	Page ____ of ____
City: Lola; State: SC; Zip Code: 29223	Printed Name: Brad DeFee	Analysis (Attach list if more space is needed.)	
Project Name: 21-1768 Southern Screen			
Project No.: 21-1768	P.O. No.:		Lot No.: DG27013

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	G=Grab C=Composite	Matrix: Aqueous	Matrix: Solid	Matrix: Non-Aqueous	Unpres.	H_2SO_4	HNO_3	HCl	NaOH	5035 Kit	BTEX + Naph	BTEX, Naph, MTBE	Remarks / Cooler I.D.
SB-1	7/23	1330	G		X								X		
SB-3	7/23	1450			X								X		
SB-5	7/23	1545			X								X		
SB-6	7/24	930			X								X		
SB-7	7/24	1100			X								X		
SB-8	7/24	1245			X								X		
SB-9	7/24	1400			X								X		
MW-19	7/25	900		X										X	
MW-20	7/25	1000		X										X	

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

Sample Disposal: ☐ Return to Client ☐ Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

Turn Around Time Required (Prior lab approval required for expedited TAT.): ☐ Standard ☐ Rush (Specify)

QC Requirements (Specify):

1. Relinquished by: Brad Dufer	Date: 7/26	Time: 2:20	1. Received by: Secure Area	Date: 7/26	Time: 2:20
2. Relinquished by: Secure Area	Date: 7-26-02	Time: 1450	2. Received by: Lane L. Anderson	Date: 7-26-02	Time: 1450
3. Relinquished by: Lane L. Anderson	Date: 7-26-02	Time: 1530	3. Laboratory received by: [signature]	Date: 7/26/02	Time: 1530

Comments:

LAB USE ONLY
Received on ice (Circle) (Yes) No Ice Pack
Receipt Temp. 2.6 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Shealy Form No. 1001

Sample Receipt Checklist

Client: NESCO Cooler received by/date: [illegible] Lot number: DG270

Means of receipt: ☑ SESI ☐ Client ☐ UPS ☐ FedEx ☐ DirectX ☐ Other

Cooler temperature upon receipt 2.6 °C
Method: ☑ Temperature Blank ☐ Against Bottles
Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Yes ☐	No ☐	NA ☑	1. Is the shipper's packing slip attached to this form? (if applicable)
Yes ☑	No ☐	NA ☐	2. Was a chain of custody provided with the samples?
Yes ☑	No ☐	NA ☐	3. Were proper custody procedures followed?
Yes ☑	No ☐	NA ☐	4. Was the client name listed?
Yes ☑	No ☐	NA ☐	5. Were sample IDs listed?
Yes ☑	No ☐	NA ☐	6. Was collection date & time listed?
Yes ☑	No ☐	NA ☐	7. Were the tests to be performed listed on either the C of C or quote?
Yes ☑	No ☐	NA ☐	8. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐	NA ☐	9. Did all bottle labels agree with custody papers?
Yes ☑	No ☐	NA ☐	10. Did all containers arrive in good condition (unbroken)?
Yes ☑	No ☐	NA ☐	11. Was adequate sample volume available?
Yes ☐	No ☑	NA ☐	12. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑	NA ☐	13. Were any samples containers missing?
Yes ☐	No ☑	NA ☐	14. Were there any excess samples not listed on C of C?
Yes ☐	No ☐	NA ☑	15. Were air bubbles >6 mm in any VOA vials (if applicable)?
Yes ☐	No ☐	NA ☑	16. Were all Metals; Oil & Grease; Nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	17. Were all Cyanide; Sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	18. Were all NH3; TKN; Cyanide; BNA; PEST; PCB; HERB; Toxicity samples free of residual chlorine? (< 0.1 mg/L)
Yes ☐	No ☐	NA ☑	19. For North Carolina samples, were collection temperatures documented on the chain of custody?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving.

Sample(s) _____ were received incorrectly preserved and were unable to be analyzed.

Sample(s) _____ were received with bubble >6 mm in diameter

Toxicity sample(s) _____ were received with TRC > 0.1 mg/L and were analyzed by method 330.5.

Corrective Action taken, if necessary:

Was client notified: Yes ☐ No ☐
Did client respond: Yes ☐ No ☐
Date of response: _____
SESI employee: _____
Client instructions / Comments:

_____
_____
_____
_____

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

NESCO
521 Clemson Road
Columbia, SC 29229
Attention: Brad Defee

Project Name: **Southers Grocery**

Project Number: **21-1768A**

Lot Number: **DH30026**

Date Completed: **09/16/2002**

Jennifer Orr
Project Manager

This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

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Case Narrative
NESCO
Lot Number: DH30026

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative.

Sample receipt, sample analysis, and data review have been performed in accordance with Shealy's Quality Assurance Management Plan and Standard Operating Procedures. Any data qualifiers associated with sample analysis are footnoted on the analytical results page(s) or are discussed below.

The volatile surrogate DCA was recovered outside the acceptance range in sample 011 due to matrix interference.

SHEALY ENVIRONMENTAL SERVICES, INC.

Sample Summary
NESCO
Lot Number: DH30026

Sample Number	Sample ID	Matrix	Date Sampled
001	MW-4	Aqueous	08/30/2002 1100
002	MW-10	Aqueous	08/29/2002 1630
003	MW-12	Aqueous	08/29/2002 1700
004	MW-14	Aqueous	08/29/2002 1730
005	MW-15	Aqueous	08/29/2002 1600
006	MW-16	Aqueous	08/29/2002 1745
007	MW-17	Aqueous	08/29/2002 1800
008	MW-18	Aqueous	08/29/2002 1820
009	MW-19	Aqueous	08/29/2002 1840
010	MW-20	Aqueous	08/29/2002 1900
011	PW-1	Aqueous	08/30/2002 0900
012	PW-2	Aqueous	08/30/2002 1030

(12 samples)

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SHEALY ENVIRONMENTAL SERVICES, INC.

Executive Summary
NESCO
Lot Number: DH30026

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units
002	MW-10	Aqueous	Ferrous Iron	3500 Fe-D	0.58		mg/L
002	MW-10	Aqueous	Sulfate	300.0	6.4		mg/L
002	MW-10	Aqueous	Lead	6010B	1.0		mg/L
003	MW-12	Aqueous	Ferrous Iron	3500 Fe-D	1.0		mg/L
003	MW-12	Aqueous	Lead	6010B	0.087		mg/L
004	MW-14	Aqueous	Ferrous Iron	3500 Fe-D	0.23		mg/L
004	MW-14	Aqueous	Nitrate - N	353.2	0.33		mg/L
004	MW-14	Aqueous	Sulfate	300.0	1.8		mg/L
004	MW-14	Aqueous	Xylenes (total)	8260B	7.5		ug/L
004	MW-14	Aqueous	Lead	6010B	0.036		mg/L
005	MW-15	Aqueous	Ferrous Iron	3500 Fe-D	0.12		mg/L
005	MW-15	Aqueous	Nitrate - N	353.2	0.51		mg/L
005	MW-15	Aqueous	Sulfate	300.0	3.9		mg/L
005	MW-15	Aqueous	Benzene	8260B	200		ug/L
005	MW-15	Aqueous	Naphthalene	8260B	17		ug/L
005	MW-15	Aqueous	Xylenes (total)	8260B	170		ug/L
006	MW-16	Aqueous	Ferrous Iron	3500 Fe-D	0.16		mg/L
006	MW-16	Aqueous	Nitrate - N	353.2	1.8		mg/L
006	MW-16	Aqueous	Sulfate	300.0	1.5	@	mg/L
006	MW-16	Aqueous	Xylenes (total)	8260B	13		ug/L
006	MW-16	Aqueous	Lead	6010B	0.13		mg/L
007	MW-17	Aqueous	Ferrous Iron	3500 Fe-D	0.15		mg/L
007	MW-17	Aqueous	Nitrate - N	353.2	13		mg/L
007	MW-17	Aqueous	Sulfate	300.0	1.6		mg/L
007	MW-17	Aqueous	Lead	6010B	0.0076		mg/L
008	MW-18	Aqueous	Ferrous Iron	3500 Fe-D	0.24		mg/L
008	MW-18	Aqueous	Nitrate - N	353.2	15		mg/L
008	MW-18	Aqueous	Sulfate	300.0	2.1		mg/L
008	MW-18	Aqueous	Lead	6010B	0.067		mg/L
009	MW-19	Aqueous	Ferrous Iron	3500 Fe-D	0.72		mg/L
009	MW-19	Aqueous	Sulfate	300.0	3.3		mg/L
009	MW-19	Aqueous	Lead	6010B	0.42		mg/L
010	MW-20	Aqueous	Ferrous Iron	3500 Fe-D	5.9		mg/L
010	MW-20	Aqueous	Sulfate	300.0	3.8		mg/L
010	MW-20	Aqueous	Lead	6010B	0.063		mg/L
011	PW-1	Aqueous	Ferrous Iron	3500 Fe-D	1.5		mg/L
011	PW-1	Aqueous	Sulfate	300.0	8.0		mg/L
011	PW-1	Aqueous	Benzene	8260B	1600		ug/L
011	PW-1	Aqueous	Ethylbenzene	8260B	49		ug/L
011	PW-1	Aqueous	Naphthalene	8260B	31		ug/L
011	PW-1	Aqueous	Toluene	8260B	50		ug/L
011	PW-1	Aqueous	Xylenes (total)	8260B	280		ug/L
011	PW-1	Aqueous	Lead	6010B	0.0089		mg/L
012	PW-2	Aqueous	Ferrous Iron	3500 Fe-D	0.45		mg/L
012	PW-2	Aqueous	Sulfate	300.0	10		mg/L
012	PW-2	Aqueous	Benzene	8260B	380		ug/L
012	PW-2	Aqueous	Ethylbenzene	8260B	16		ug/L

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Executive Summary (continued)
Lot Number: DH30026

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units
012	PW-2	Aqueous	Naphthalene	8260B	12		ug/L
012	PW-2	Aqueous	Xylenes (total)	8260B	38		ug/L
012	PW-2	Aqueous	Lead	6010B	0.15		mg/L

(50 detections)

Volatile Organic Compounds by GC/MS

Client: **NESCO**
Description: **MW-4**
Date Sampled: **08/30/2002 1100**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-001**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	09/05/2002 1745	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		77	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		94	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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Inorganic non-metals

Client: **NESCO**
Description: **MW-10**
Date Sampled: **08/29/2002 1630**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-002**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Ferrous Iron) 3500 Fe-D	1	08/30/2002 0915	SRW		
1		(Nitrate - N) 353.2	1	08/30/2002 1609	SRW		
1		(Sulfate) 300.0	1	09/04/2002 2100	LMC		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Ferrous Iron		**3500 Fe-D**	**0.58**		**0.050**	**mg/L**	**1**
Nitrate - N		353.2	ND		0.020	mg/L	1
Sulfate		**300.0**	**6.4**		**1.0**	**mg/L**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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Volatile Organic Compounds by GC/MS

Client: **NESCO**
Description: **MW-10**
Date Sampled: **08/29/2002 1630**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-002**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	09/05/2002 1809	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		78	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		90	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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Volatile Organic Compounds by GC/MS

Client: **NESCO**
Description: **MW-10**
Date Sampled: **08/29/2002 1630**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-002**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	09/12/2002 1452	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Tetraethyl lead	78-00-2	8260B	ND		500	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		109	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

EDB & DBCP by Microextraction

Client: **NESCO**
Description: **MW-10**
Date Sampled: **08/29/2002 1630**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-002**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		8011	1	09/11/2002 2141	MTR		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.021	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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ICP-AES

Client: **NESCO**
Description: **MW-10**
Date Sampled: **08/29/2002 1630**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-002**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010B	5	09/06/2002 1412	FTS	09/04/2002 1320	5420

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	**7439-92-1**	**6010B**	**1.0**		**0.015**	**mg/L**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Inorganic non-metals

Client: **NESCO**
Description: **MW-12**
Date Sampled: **08/29/2002 1700**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-003**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Ferrous Iron) 3500 Fe-D	1	08/30/2002 0915	SRW		
1		(Nitrate - N) 353.2	1	08/30/2002 1609	SRW		
1		(Sulfate) 300.0	1	09/04/2002 2152	LMC		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Ferrous Iron		**3500 Fe-D**	**1.0**		**0.050**	**mg/L**	**1**
Nitrate - N		353.2	ND		0.020	mg/L	1
Sulfate		300.0	ND		1.0	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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Volatile Organic Compounds by GC/MS

Client: **NESCO**
Description: **MW-12**
Date Sampled: **08/29/2002 1700**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-003**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	09/05/2002 1834	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		79	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		87	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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Volatile Organic Compounds by GC/MS

Client: **NESCO**
Description: **MW-12**
Date Sampled: **08/29/2002 1700**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-003**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	09/12/2002 0152	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Tetraethyl lead	78-00-2	8260B	ND		500	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	70-130
Bromofluorobenzene		89	70-130
Toluene-d8		98	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

EDB & DBCP by Microextraction

Client: **NESCO**
Description: **MW-12**
Date Sampled: **08/29/2002 1700**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-003**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		8011	1	09/11/2002 2156	MTR		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

ICP-AES

Client: **NESCO**
Description: **MW-12**
Date Sampled: **08/29/2002 1700**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-003**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010B	1	09/06/2002 0022	FTS	09/04/2002 1320	5420

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	**7439-92-1**	**6010B**	**0.087**		**0.0030**	**mg/L**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Inorganic non-metals

Client: **NESCO**
Description: **MW-14**
Date Sampled: **08/29/2002 1730**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-004**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Ferrous Iron) 3500 Fe-D	1	08/30/2002 0915	SRW		
1		(Nitrate - N) 353.2	1	08/30/2002 1609	SRW		
1		(Sulfate) 300.0	1	09/04/2002 2209	LMC		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Ferrous Iron		**3500 Fe-D**	**0.23**		**0.050**	**mg/L**	**1**
Nitrate - N		**353.2**	**0.33**		**0.020**	**mg/L**	**1**
Sulfate		**300.0**	**1.8**		**1.0**	**mg/L**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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Volatile Organic Compounds by GC/MS

Client: **NESCO**
Description: **MW-14**
Date Sampled: **08/29/2002 1730**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-004**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	09/05/2002 1858	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
Xylenes (total)	**1330-20-7**	**8260B**	**7.5**		**5.0**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		76	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		91	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **NESCO**
Description: **MW-14**
Date Sampled: **08/29/2002 1730**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-004**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	09/12/2002 0216	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Tetraethyl lead	78-00-2	8260B	ND		500	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		105	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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EDB & DBCP by Microextraction

Client: **NESCO**
Description: **MW-14**
Date Sampled: **08/29/2002 1730**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-004**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		8011	1	09/11/2002 2212	MTR		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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ICP-AES

Client: **NESCO**
Description: **MW-14**
Date Sampled: **08/29/2002 1730**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-004**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010B	1	09/06/2002 0028	FTS	09/04/2002 1320	5420

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	**7439-92-1**	**6010B**	**0.036**		**0.0030**	**mg/L**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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Inorganic non-metals

Client: **NESCO**
Description: **MW-15**
Date Sampled: **08/29/2002 1600**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-005**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Ferrous Iron) 3500 Fe-D	1	08/30/2002 0915	SRW		
1		(Nitrate - N) 353.2	1	08/30/2002 1609	SRW		
1		(Sulfate) 300.0	1	09/04/2002 2226	LMC		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Ferrous Iron		**3500 Fe-D**	**0.12**		**0.050**	**mg/L**	**1**
Nitrate - N		**353.2**	**0.51**		**0.020**	**mg/L**	**1**
Sulfate		**300.0**	**3.9**		**1.0**	**mg/L**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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Volatile Organic Compounds by GC/MS

Client: **NESCO**
Description: **MW-15**
Date Sampled: **08/29/2002 1600**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-005**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	09/05/2002 1922	RED		
2	5030B	8260B	2	09/07/2002 2007	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	**71-43-2**	**8260B**	**200**		**10**	**ug/L**	**2**
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**17**		**5.0**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
Xylenes (total)	**1330-20-7**	**8260B**	**170**		**5.0**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		75	70-130		77	70-130
Bromofluorobenzene		107	70-130		90	70-130
Toluene-d8		92	70-130		93	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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Volatile Organic Compounds by GC/MS

Client: **NESCO**
Description: **MW-15**
Date Sampled: **08/29/2002 1600**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-005**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	09/12/2002 0241	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Tetraethyl lead	78-00-2	8260B	ND		500	ug/L	1

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

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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EDB & DBCP by Microextraction

Client: **NESCO**
Description: **MW-15**
Date Sampled: **08/29/2002 1600**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-005**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		8011	1	09/11/2002 2227	MTR		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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ICP-AES

Client: **NESCO**
Description: **MW-15**
Date Sampled: **08/29/2002 1600**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-005**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010B	1	09/06/2002 0033	FTS	09/04/2002 1320	5420

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	7439-92-1	6010B	ND		0.0030	mg/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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Inorganic non-metals

Client: **NESCO**
Description: **MW-16**
Date Sampled: **08/29/2002 1745**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-006**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Ferrous Iron) 3500 Fe-D	1	08/30/2002 0915	SRW		
1		(Nitrate - N) 353.2	1	08/30/2002 1609	SRW		
1		(Sulfate) 300.0	1	09/04/2002 2353	LMC		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Ferrous Iron		**3500 Fe-D**	**0.16**		**0.050**	**mg/L**	**1**
Nitrate - N		**353.2**	**1.8**		**0.020**	**mg/L**	**1**
Sulfate		**300.0**	**1.5**	**@**	**1.0**	**mg/L**	**1**

Footnote(s): @ MS/MSD outside the 90-110% recovery range.

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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Volatile Organic Compounds by GC/MS

Client: **NESCO**
Description: **MW-16**
Date Sampled: **08/29/2002 1745**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-006**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	09/05/2002 1947	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
Xylenes (total)	**1330-20-7**	**8260B**	**13**		**5.0**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		75	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		96	70-130

Footnote(s): @ MS/MSD outside the 90-110% recovery range.

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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Volatile Organic Compounds by GC/MS

Client: **NESCO**
Description: **MW-16**
Date Sampled: **08/29/2002 1745**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-006**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	09/12/2002 0305	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Tetraethyl lead	78-00-2	8260B	ND		500	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		109	70-130

Footnote(s): @ MS/MSD outside the 90-110% recovery range.

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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EDB & DBCP by Microextraction

Client: **NESCO**
Description: **MW-16**
Date Sampled: **08/29/2002 1745**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-006**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		8011	1	09/11/2002 2242	MTR		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	ug/L	1

Footnote(s): @ MS/MSD outside the 90-110% recovery range.

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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ICP-AES

Client: **NESCO**
Description: **MW-16**
Date Sampled: **08/29/2002 1745**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-006**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010B	1	09/06/2002 0039	FTS	09/04/2002 1320	5420

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	7439-92-1	6010B	0.13		0.0030	mg/L	1

Footnote(s): @ MS/MSD outside the 90-110% recovery range.

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Inorganic non-metals

Client: **NESCO**
Description: **MW-17**
Date Sampled: **08/29/2002 1800**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-007**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Ferrous Iron) 3500 Fe-D	1	08/30/2002 0915	SRW		
1		(Nitrate - N) 353.2	1	08/30/2002 1609	SRW		
1		(Sulfate) 300.0	1	09/05/2002 0045	LMC		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Ferrous Iron		**3500 Fe-D**	**0.15**		**0.050**	**mg/L**	**1**
Nitrate - N		**353.2**	**13**		**0.020**	**mg/L**	**1**
Sulfate		**300.0**	**1.6**		**1.0**	**mg/L**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **NESCO**
Description: **MW-17**
Date Sampled: **08/29/2002 1800**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-007**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	09/05/2002 2011	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		76	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		94	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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Volatile Organic Compounds by GC/MS

Client: **NESCO**
Description: **MW-17**
Date Sampled: **08/29/2002 1800**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-007**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	09/12/2002 0329	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Tetraethyl lead	78-00-2	8260B	ND		500	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		106	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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EDB & DBCP by Microextraction

Client: **NESCO**
Description: **MW-17**
Date Sampled: **08/29/2002 1800**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-007**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		8011	1	09/11/2002 2257	MTR		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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ICP-AES

Client: **NESCO**
Description: **MW-17**
Date Sampled: **08/29/2002 1800**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-007**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010B	1	09/06/2002 0045	FTS	09/04/2002 1320	5420

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	**7439-92-1**	**6010B**	**0.0076**		**0.0030**	**mg/L**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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Inorganic non-metals

Client: **NESCO**
Description: **MW-18**
Date Sampled: **08/29/2002 1820**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-008**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Ferrous Iron) 3500 Fe-D	1	08/30/2002 0915	SRW		
1		(Nitrate - N) 353.2	1	08/30/2002 1609	SRW		
1		(Sulfate) 300.0	1	09/05/2002 0103	LMC		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Ferrous Iron		**3500 Fe-D**	**0.24**		**0.050**	**mg/L**	**1**
Nitrate - N		**353.2**	**15**		**0.020**	**mg/L**	**1**
Sulfate		**300.0**	**2.1**		**1.0**	**mg/L**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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Volatile Organic Compounds by GC/MS

Client: **NESCO**
Description: **MW-18**
Date Sampled: **08/29/2002 1820**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-008**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	09/05/2002 2035	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	71-43-2	8260B	ND		5.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		77	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		96	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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Volatile Organic Compounds by GC/MS

Client: **NESCO**
Description: **MW-18**
Date Sampled: **08/29/2002 1820**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-008**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	09/12/2002 0353	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Tetraethyl lead	78-00-2	8260B	ND		500	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		107	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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EDB & DBCP by Microextraction

Client: **NESCO**
Description: **MW-18**
Date Sampled: **08/29/2002 1820**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-008**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		8011	1	09/11/2002 2312	MTR		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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ICP-AES

Client: **NESCO**
Description: **MW-18**
Date Sampled: **08/29/2002 1820**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-008**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010B	1	09/06/2002 0050	FTS	09/04/2002 1320	5420

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	**7439-92-1**	**6010B**	**0.067**		**0.0030**	**mg/L**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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Inorganic non-metals

Client: **NESCO**
Description: **MW-19**
Date Sampled: **08/29/2002 1840**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-009**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Ferrous Iron) 3500 Fe-D	1	08/30/2002 0915	SRW		
1		(Nitrate - N) 353.2	1	08/30/2002 1609	SRW		
1		(Sulfate) 300.0	1	09/05/2002 0120	LMC		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Ferrous Iron		**3500 Fe-D**	**0.72**		**0.050**	**mg/L**	**1**
Nitrate - N		353.2	ND		0.020	mg/L	1
Sulfate		**300.0**	**3.3**		**1.0**	**mg/L**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **NESCO**
Description: **MW-19**
Date Sampled: **08/29/2002 1840**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-009**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	09/12/2002 0418	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Tetraethyl lead	78-00-2	8260B	ND		500	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		108	70-130
Toluene-d8		103	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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EDB & DBCP by Microextraction

Client: **NESCO**
Description: **MW-19**
Date Sampled: **08/29/2002 1840**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-009**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		8011	1	09/11/2002 2358	MTR		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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ICP-AES

Client: **NESCO**
Description: **MW-19**
Date Sampled: **08/29/2002 1840**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-009**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010B	1	09/06/2002 0108	FTS	09/04/2002 1320	5420

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	**7439-92-1**	**6010B**	**0.42**		**0.0030**	**mg/L**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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Inorganic non-metals

Client: **NESCO**
Description: **MW-20**
Date Sampled: **08/29/2002 1900**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-010**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Ferrous Iron) 3500 Fe-D	5	08/30/2002 0915	SRW		
1		(Nitrate - N) 353.2	1	08/30/2002 1609	SRW		
1		(Sulfate) 300.0	1	09/05/2002 0137	LMC		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Ferrous Iron		**3500 Fe-D**	**5.9**		**0.25**	**mg/L**	**1**
Nitrate - N		353.2	ND		0.020	mg/L	1
Sulfate		**300.0**	**3.8**		**1.0**	**mg/L**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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Volatile Organic Compounds by GC/MS

Client: **NESCO**
Description: **MW-20**
Date Sampled: **08/29/2002 1900**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-010**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	09/12/2002 0442	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Tetraethyl lead	78-00-2	8260B	ND		500	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		106	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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EDB & DBCP by Microextraction

Client: **NESCO**
Description: **MW-20**
Date Sampled: **08/29/2002 1900**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-010**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		8011	1	09/12/2002 0013	MTR		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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ICP-AES

Client: **NESCO**
Description: **MW-20**
Date Sampled: **08/29/2002 1900**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-010**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010B	1	09/06/2002 0113	FTS	09/04/2002 1320	5420

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	**7439-92-1**	**6010B**	**0.063**		**0.0030**	**mg/L**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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Inorganic non-metals

Client: **NESCO**
Description: **PW-1**
Date Sampled: **08/30/2002 0900**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-011**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Ferrous Iron) 3500 Fe-D	1	08/30/2002 0915	SRW		
1		(Nitrate - N) 353.2	1	08/30/2002 1609	SRW		
1		(Sulfate) 300.0	1	09/05/2002 0155	LMC		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Ferrous Iron		**3500 Fe-D**	**1.5**		**0.050**	**mg/L**	**1**
Nitrate - N		353.2	ND		0.020	mg/L	1
Sulfate		**300.0**	**8.0**		**1.0**	**mg/L**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Shealy Environmental Services, Inc.
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Volatile Organic Compounds by GC/MS

Client: **NESCO**
Description: **PW-1**
Date Sampled: **08/30/2002 0900**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-011**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	09/05/2002 2059	RED		
2	5030B	8260B	10	09/11/2002 1634	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	**71-43-2**	**8260B**	**1600**		**50**	**ug/L**	**2**
Ethylbenzene	**100-41-4**	**8260B**	**49**		**5.0**	**ug/L**	**1**
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**31**		**5.0**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**50**		**5.0**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**280**		**5.0**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		66	70-130		101	70-130
Bromofluorobenzene		110	70-130		94	70-130
Toluene-d8		90	70-130		97	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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Volatile Organic Compounds by GC/MS

Client: **NESCO**
Description: **PW-1**
Date Sampled: **08/30/2002 0900**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-011**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	09/12/2002 0039	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Tetraethyl lead	78-00-2	8260B	ND		500	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	70-130
Bromofluorobenzene		113	70-130
Toluene-d8		100	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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EDB & DBCP by Microextraction

Client: **NESCO**
Description: **PW-1**
Date Sampled: **08/30/2002 0900**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-011**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		8011	1	09/12/2002 0028	MTR		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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ICP-AES

Client: **NESCO**
Description: **PW-1**
Date Sampled: **08/30/2002 0900**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-011**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010B	1	09/06/2002 0119	FTS	09/04/2002 1320	5420

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	**7439-92-1**	**6010B**	**0.0089**		**0.0030**	**mg/L**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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Inorganic non-metals

Client: **NESCO**
Description: **PW-2**
Date Sampled: **08/30/2002 1030**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-012**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(Ferrous Iron) 3500 Fe-D	1	08/30/2002 0915	SRW		
1		(Nitrate - N) 353.2	1	08/30/2002 1609	SRW		
1		(Sulfate) 300.0	1	09/05/2002 0247	LMC		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Ferrous Iron		**3500 Fe-D**	**0.45**		**0.050**	**mg/L**	**1**
Nitrate - N		353.2	ND		0.020	mg/L	1
Sulfate		**300.0**	**10**		**1.0**	**mg/L**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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Volatile Organic Compounds by GC/MS

Client: **NESCO**
Description: **PW-2**
Date Sampled: **08/30/2002 1030**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-012**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	09/05/2002 2124	RED		
2	5030B	8260B	5	09/11/2002 1658	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Benzene	**71-43-2**	**8260B**	**380**		**25**	**ug/L**	**2**
Ethylbenzene	**100-41-4**	**8260B**	**16**		**5.0**	**ug/L**	**1**
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**12**		**5.0**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		5.0	ug/L	1
Xylenes (total)	**1330-20-7**	**8260B**	**38**		**5.0**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		74	70-130		99	70-130
Bromofluorobenzene		101	70-130		94	70-130
Toluene-d8		78	70-130		94	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: **NESCO**
Description: **PW-2**
Date Sampled: **08/30/2002 1030**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-012**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	09/12/2002 0104	RED		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Tetraethyl lead	78-00-2	8260B	ND		500	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	70-130
Bromofluorobenzene		119	70-130
Toluene-d8		107	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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EDB & DBCP by Microextraction

Client: **NESCO**
Description: **PW-2**
Date Sampled: **08/30/2002 1030**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-012**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		8011	1	09/12/2002 0043	MTR		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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ICP-AES

Client: **NESCO**
Description: **PW-2**
Date Sampled: **08/30/2002 1030**
Date Received: **08/30/2002**

Laboratory ID: **DH30026-012**
Matrix: **Aqueous**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3005A	6010B	1	09/06/2002 0125	FTS	09/04/2002 1320	5420

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Lead	**7439-92-1**	**6010B**	**0.15**		**0.0030**	**mg/L**	**1**

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
B = Detected in the method blank
J = Estimated result less than the PQL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive
Cayce, South Carolina 29033
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

SHEALY Chain of Custody Record

Number 15361

Client: NESCO, Inc.	Project Manager: Brad Ofer	Telephone No. / Fax No. / E-mail: 649-1976	Quote No.
Address: 521 Clemson Rd.	Sampler's Signature: X	Waybill No.	Page 1 of 2
City: Cola / State: SC / Zip Code: 29229	Printed Name: Carrie LoGiudice	Analysis (Attach list if more space is needed.)	
Project Name: Southern Grocery			
Project No.: 21-1768A	P.O. No.		Lot No.: DH30026

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	G=Grab C=Composite	Matrix: Aqueous	Solid	Non-Aqueous	No. of Containers by Preservative Type: Unpres.	H2SO4	HNO3	HCl	NaOH	5035 Kit	BTEX, Naph, MTBE	EDB (8011)	Lead	Organic Lead	Nitrate	Sulfate	Ferrous Iron	Remarks / Cooler I.D.
MW-4	8/30	1100	G	X									X							
MW-10	8/29	1630											X	X	X	X	X	X	X	
MW-12	8/29	1700											X	X	X	X	X	X	X	
MW-14	8/29	1730											X	X	X	X	X	X	X	
MW-15	8/29	1600											X	X	X	X	X	X	X	
MW-16	8/29	1745											X	X	X	X	X	X	X	
MW-17	8/29	1800											X	X	X	X	X	X	X	
MW-18	8/29	1820											X	X	X	X	X	X	X	
MW-19	8/29	1840												X	X	X	X	X	X	
MW-20	8/29	1900												X	X	X	X	X	X	

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

Sample Disposal: ☐ Return to Client ☐ Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

Turn Around Time Required (Prior lab approval required for expedited TAT.): ☑ Standard ☐ Rush (Specify)

QC Requirements (Specify):

1. Relinquished by: Brad Ofer	Date: 8/30	Time: 1470	1. Received by	Date	Time
2. Relinquished by	Date	Time	2. Received by	Date	Time
3. Relinquished by	Date	Time	3. Laboratory received by: [illegible]	Date: 8/30/02	Time: 1420

Comments

LAB USE ONLY
Received on ice (Circle): Yes No Ice Pack
Receipt Temp. 4.6 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Shealy Form No. 1001

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive
Cayce, South Carolina 29033
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

SHEALY Chain of Custody Record

Number 15360

Client: NESCO, Inc.	Project Manager: Brad DeFee	Telephone No. / Fax No. / E-mail: 699-1976	Quote No.
Address: 321 Cleanson Rd	Sampler's Signature: X	Waybill No.	Page 2 of 2
City: Cola; State: SC; Zip Code: 29229	Printed Name: Carrie Lobindice	Analysis (Attach list if more space is needed.)	
Project Name: Southern Energy			
Project No.: 21-1768A	P.O. No.		Lot No.

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	G=Grab C=Composite	Matrix: Aqueous	Solid	Non-Aqueous	No. of Containers by Preservative Type: Unpres.	H2SO4	HNO3	HCl	NaOH	5035 Kit	BTEX, Naph, MTBE	EDB (8011)	Lead	Organic Lead	Nitrate	Sulfate	Ferrous Iron				Remarks / Cooler I.D.
PW-1	8/30	900	G	X									X	X	X	X	X	X	X				
PW-2	8/30	1030	G	X									X	X	X	X	X	X	X				
[redacted]																							

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

Sample Disposal: ☐ Return to Client ☐ Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

Turn Around Time Required (Prior lab approval required for expedited TAT.): ☒ Standard ☐ Rush (Specify)

QC Requirements (Specify):

1. Relinquished by: Brad DeFee	Date: 8/30	Time: 1420	1. Received by	Date	Time
2. Relinquished by	Date	Time	2. Received by	Date	Time
3. Relinquished by	Date	Time	3. Laboratory Received by: [signature]	Date: 8/30/02	Time: 1420

Comments

LAB USE ONLY
Received on ice (Circle) Yes No Ice Pack
Receipt Temp. 4.6 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Shealy Form No. 1001

Sample Receipt Checklist

Client: NesCo Cooler received by/date LRC 8/30/02 Lot number: DH30026

Means of receipt: ☐ SESI ☑ Client ☐ UPS ☐ FedEx ☐ DirectX ☐ Other

Cooler temperature upon receipt 4.6 °C
Method: ☐ Temperature Blank ☑ Against Bottles
Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Yes ☐	No ☐	NA ☑	1. Is the shipper's packing slip attached to this form? (if applicable)
Yes ☑	No ☐	NA ☐	2. Was a chain of custody provided with the samples?
Yes ☑	No ☐	NA ☐	3. Were proper custody procedures followed?
Yes ☑	No ☐	NA ☐	4. Was the client name listed?
Yes ☑	No ☐	NA ☐	5. Were sample IDs listed?
Yes ☑	No ☐	NA ☐	6. Was collection date & time listed?
Yes ☑	No ☐	NA ☐	7. Were the tests to be performed listed on either the C of C or quote?
Yes ☑	No ☐	NA ☐	8. Did all samples arrive in the proper containers for each test?
Yes ☑	No ☐	NA ☐	9. Did all bottle labels agree with custody papers?
Yes ☑	No ☐	NA ☐	10. Did all containers arrive in good condition (unbroken)?
Yes ☑	No ☐	NA ☐	11. Was adequate sample volume available?
Yes ☐	No ☑	NA ☐	12. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑	NA ☐	13. Were any samples containers missing?
Yes ☐	No ☑	NA ☐	14. Were there any excess samples not listed on C of C?
Yes ☐	No ☑	NA ☐	15. Were air bubbles >6 mm in any VOA vials (if applicable)?
Yes ☑	No ☐	NA ☐	16. Were all Metals; Oil & Grease; Nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	17. Were all Cyanide; Sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	18. Were all NH3; TKN; Cyanide; BNA; PEST; PCB; HERB; Toxicity samples free of residual chlorine? (< 0.1 mg/L)
Yes ☐	No ☐	NA ☑	19. For North Carolina samples, were collection temperatures documented on the chain of custody?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving.

Sample(s) _____ were received incorrectly preserved and were unable to be analyzed.

Sample(s) _____ were received with bubble >6 mm in diameter

Toxicity sample(s) _____ were received with TRC > 0.1 mg/L and were analyzed by method 330.5.

Corrective Action taken, if necessary:

Was client notified: Yes ☐ No ☐
Did client respond: Yes ☐ No ☐
Date of response: _____
SESI employee: _____
Client instructions / Comments:

_____
_____
_____
_____

APPENDIX B

MONITORING WELL CONSTRUCTION DIAGRAMS

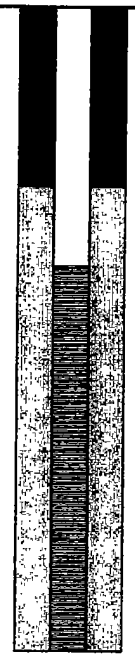
NESCO

For Pratical Solutions

LOG OF BORING: MW-14

Site Name:	Souther's Grocery	Drilling/Boring Method:	4.25 Hollow Stem Auger	Total Well Depth (ft):	25
Project Number:	21-1768	Sampling Method:	NA	Measuring Point Elev. (ft-msl):	N/A
Location:	Campobello, SC	Subcontractor/Drillers:	Billy Ewing	Latitude	35° 03.49'
Date/Time Started:	7/23/02	SC Registration	SC #1505	Longitude	81° 11.00'
Date/Time Completed:	7/23/02	Monitoring Equipment:	OVA	Geologist/Engineer:	Brad Defee

ft-bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)			Construction	ft-bgs
5					Red silty clay				5
10					Brownish orange clay				10
15									15
20					Redish brown silty clay Saturated				20
25					Total Depth 25' 15' of screen				25
30									30
35									35
40									40



COMMENTS:

NOTES:
in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

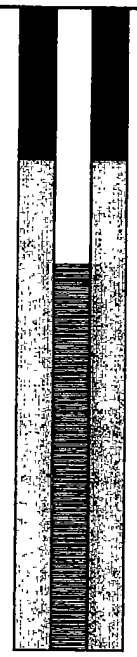
NESCO

For Pratical Solutions

LOG OF BORING: MW-15

Site Name:	Souther's Grocery	Drilling/Boring Method:	4.25 Hollow Stem Auger	Total Well Depth (ft):	25
Project Number:	21-1768	Sampling Method:	NA	Measuring Point Elev. (ft-msl):	N/A
Location:	Campobello, SC	Subcontractor/Drillers:	Billy Ewing	Latitude	35° 03.49'
Date/Time Started:	7/23/02	SC Registration	SC #1505	Longitude	81° 11.00'
Date/Time Completed:	7/23/02	Monitoring Equipment:	OVA	Geologist/Engineer:	Brad Defee

ft-bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)	Construction	ft-bgs
5					Red silty clay		5
10					Brownish orange clay		10
15							15
20					Redish brown silty clay Saturated		20
25					Total Depth 25' 15' of screen		25
30							30
35							35
40							40



COMMENTS:

NOTES:
in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

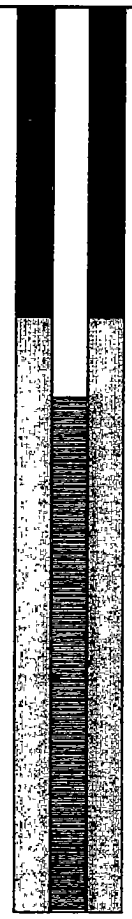
NESCO

For Pratical Solutions

LOG OF BORING: MW-16

Site Name:	Souther's Grocery	Drilling/Boring Method:	4.25 Hollow Stem Auger	Total Well Depth (ft):	35
Project Number:	21-1768	Sampling Method:	NA	Measuring Point Elev. (ft-msl):	N/A
Location:	Campobello, SC	Subcontractor/Drillers:	Billy Ewing	Latitude	35° 03.49'
Date/Time Started:	7/23/02	SC Registration	SC #1505	Longitude	81° 11.00'
Date/Time Completed:	7/23/02	Monitoring Equipment:	OVA	Geologist/Engineer:	Brad Defee

ft-bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)	Construction	ft-bgs
5					Red silty clay		5
10					Brownish orange clay		10
15							15
20					Redish brown silty clay		20
25							25
30					Saturated		30
35					Total Depth 35' 20' of screen		35
40							40



COMMENTS:

NOTES:

in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

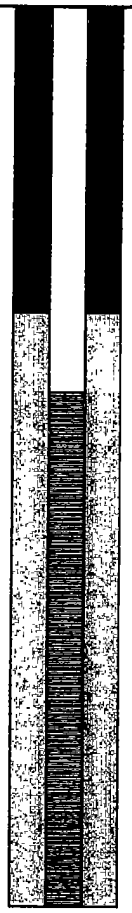
NESCO

For Pratical Solutions

LOG OF BORING: MW-17

Site Name:	Souther's Grocery	Drilling/Boring Method:	4.25 Hollow Stem Auger	Total Well Depth (ft):	35
Project Number:	21-1768	Sampling Method:	NA	Measuring Point Elev. (ft-msl):	N/A
Location:	Campobello, SC	Subcontractor/Drillers:	Billy Ewing	Latitude	35° 03.49'
Date/Time Started:	7/23/02	SC Registration	SC #1505	Longitude	81° 11.00'
Date/Time Completed:	7/23/02	Monitoring Equipment:	OVA	Geologist/Engineer:	Brad Defee

ft-bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)	Construction	ft-bgs
5					Red silty clay		5
10					Brownish orange clay		10
15							15
20					Redish brown silty clay		20
25							25
30					Saturated		30
35					Total Depth 35' 20' of screen		35
40							40



COMMENTS:

NOTES:

in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

NESCO

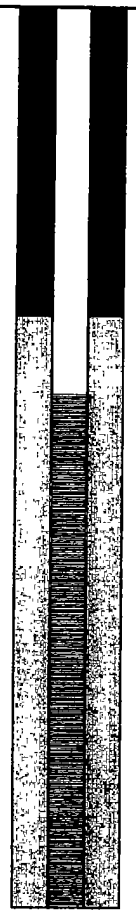
For Pratical Solutions

LOG OF BORING: MW-18

Site Name:	Souther's Grocery	Drilling/Boring Method:	4.25 Hollow Stem Auger	Total Well Depth (ft):	35
Project Number:	21-1768	Sampling Method:	NA	Measuring Point Elev. (ft-msl):	N/A
Location:	Campobello, SC	Subcontractor/Drillers:	Billy Ewing	Latitude	35° 03.49'
Date/Time Started:	7/23/02	SC Registration	SC #1505	Longitude	81° 11.00'
Date/Time Completed:	7/23/02	Monitoring Equipment:	OVA	Geologist/Engineer:	Brad Defee

ft-bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)
5					Red silty clay
10					Brownish orange clay
15					
20					Redish brown silty clay
25					Saturated
30					
35					Total Depth 35' 20' of screen
40					

Construction



COMMENTS:

NOTES:

in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

NESCO

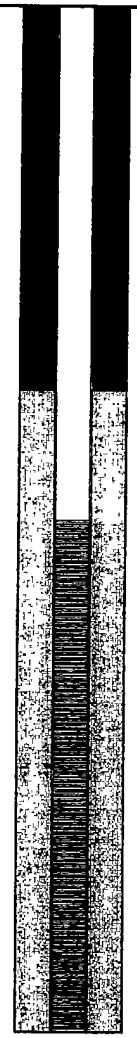
For Pratical Solutions

LOG OF BORING: MW-19

Site Name:	Souther's Grocery	Drilling/Boring Method:	4.25 Hollow Stem Auger	Total Well Depth (ft):	40
Project Number:	21-1768	Sampling Method:	NA	Measuring Point Elev. (ft-msl):	N/A
Location:	Campobello, SC	Subcontractor/Drillers:	Billy Ewing	Latitude	35° 03.49'
Date/Time Started:	7/23/02	SC Registration	SC #1505	Longitude	81° 11.00'
Date/Time Completed:	7/23/02	Monitoring Equipment:	OVA	Geologist/Engineer:	Brad Defee

ft-bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)
5					Red silty clay
10					Brownish orange clay
15					
20					Redish brown silty clay
25					
30					Saturated
35					
40					Total Depth 35' 20' of screen

Construction



COMMENTS:

NOTES:
in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

NESCO

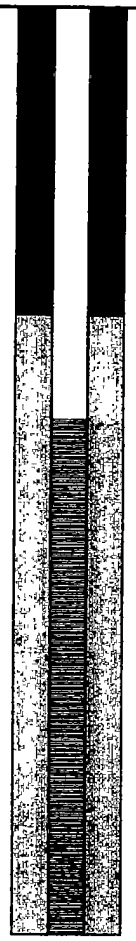
For Pratical Solutions

LOG OF BORING: MW-20

Site Name:	Souther's Grocery	Drilling/Boring Method:	4.25 Hollow Stem Auger	Total Well Depth (ft):	36
Project Number:	21-1768	Sampling Method:	NA	Measuring Point Elev. (ft-msl):	N/A
Location:	Campobello, SC	Subcontractor/Drillers:	Billy Ewing	Latitude	35° 03.49'
Date/Time Started:	7/23/02	SC Registration	SC #1505	Longitude	81° 11.00'
Date/Time Completed:	7/23/02	Monitoring Equipment:	OVA	Geologist/Engineer:	Brad Defee

ft-bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)
5					Red silty clay
10					Brownish orange clay
15					
20					Weathered quartz rock (17'-21')
					Brown clayey silt
25					
30					rock (31'-36')
35					Total Depth 36' Refusal @ 36' 20' of screen
40					

Construction



COMMENTS:

NOTES:

in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

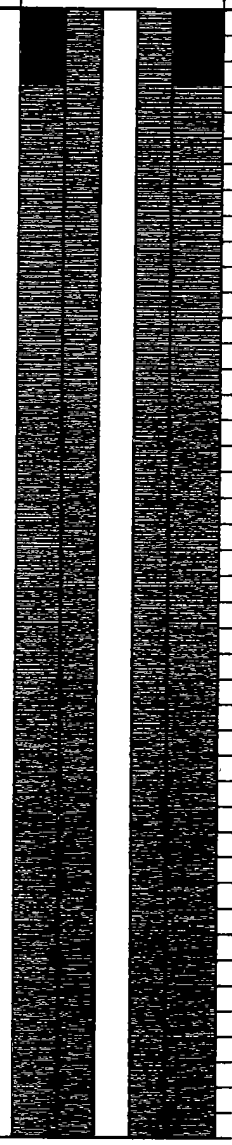
NESCO

For Pratical Solutions

LOG OF BORING: PW-2

Site Name:	Souther's Grocery	Drilling/Boring Method:	4.25 Hollow Stem Auger	Total Well Depth (ft):	75
Project Number:	21-1768	Sampling Method:	NA	Measuring Point Elev. (ft-msl):	N/A
Location:	Campobello, SC	Subcontractor/Drillers:	Billy Ewing	Latitude	35° 03.49'
Date/Time Started:	7/23/02	SC Registration	SC #1505	Longitude	81° 11.00'
Date/Time Completed:	8/15/02	Monitoring Equipment:	OVA	Geologist/Engineer:	Brad Defee

ft-bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)			Construction	ft-bgs
5					Red silty clay				5
10					Brownish orange clay				10
15									15
20					Brown silty clay				20
25									25
30									30
35									35
40									40



COMMENTS:

NOTES:
in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

NESCO

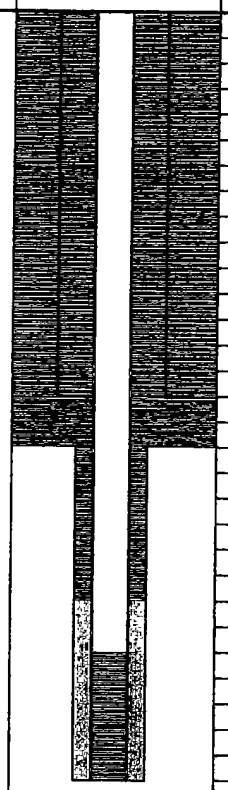
For Pratical Solutions

LOG OF BORING: PW-2

Site Name:	Souther's Grocery	Drilling/Boring Method:	4.25 Hollow Stem Auger	Total Well Depth (ft):	75
Project Number:	21-1768	Sampling Method:	NA	Measuring Point Elev. (ft-msl):	N/A
Location:	Campobello, SC	Subcontractor/Drillers:	Billy Ewing	Latitude	35° 03.49'
Date/Time Started:	7/23/02	SC Registration	SC #1505	Longitude	81° 11.00'
Date/Time Completed:	8/15/02	Monitoring Equipment:	OVA	Geologist/Engineer:	Brad Defee

ft-bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)
50					Brown silty clay
55					
60					Outer casing set at 60'
65					Brown silty clay
70					
75					Total Depth 75' 5' of screen
80					
85					

Construction



COMMENTS:

NOTES:
in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

APPENDIX C

Soil Boring Logs

NESCO

For Pratical Solutions

LOG OF BORING: SB-1

Site Name:	Souther's Grocery	Drilling/Boring Method:	Hydraulic Punch	Total Boring Depth (ft):	20
Project Number:	21-1768	Sampling Method:	Continuous core	Measuring Point Elev. (ft-msl):	N/A
Location:	Campobello, SC	Subcontractor/Drillers:	Billy Ewing	Latitude	35° 03.49'
Date/Time Started:	7/23/02	SC Registration	SC #1505	Longitude	81° 11.00'
Date/Time Completed:	7/23/02	Monitoring Equipment:	OVA	Geologist/Engineer:	Brad Defee

ft -bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)			Construction	ft-bgs
5		2.3			Red silty clay, some fine sand				5
10		2.3			Brownish orange clay				10
15	sb-1-15'	54			Brownish orange clay				15
20					Redish brown silty clay Moist				20
25					Total Depth 20'				25
30									30
35									35
40									40

COMMENTS:

NOTES:

in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

NESCO

For Pratical Solutions

LOG OF BORING: SB-2

Site Name:	Souther's Grocery	Drilling/Boring Method:	Hydraulic Punch	Total Boring Depth (ft):	20
Project Number:	21-1768	Sampling Method:	Continuous core	Measuring Point Elev. (ft-msl):	N/A
Location:	Campobello, SC	Subcontractor/Drillers:	Billy Ewing	Latitude	35° 03.49'
Date/Time Started:	7/23/02	SC Registration	SC #1505	Longitude	81° 11.00'
Date/Time Completed:	7/23/02	Monitoring Equipment:	OVA	Geologist/Engineer:	Brad Defee

ft-bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)			Construction	ft-bgs
5		2.3			Red silty clay, some fine sand				5
10		2.3			Brownish orange clay				10
15		14.8			Brownish orange clay				15
20					Redish brown silty clay Moist				20
					Total Depth 20'				
25									25
30									30
35									35
40									40

COMMENTS:

NOTES:
in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

NESCO

For Pratical Solutions

LOG OF BORING: SB-3

Site Name:	Souther's Grocery	Drilling/Boring Method:	Hydraulic Punch	Total Boring Depth (ft):	20
Project Number:	21-1768	Sampling Method:	Continuous core	Measuring Point Elev. (ft-msl):	N/A
Location:	Campobello, SC	Subcontractor/Drillers:	Billy Ewing	Latitude	35° 03.49'
Date/Time Started:	7/23/02	SC Registration	SC #1505	Longitude	81° 11.00'
Date/Time Completed:	7/23/02	Monitoring Equipment:	OVA	Geologist/Engineer:	Brad Defee

ft-bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)			Construction	ft-bgs
5		2.3			Red silty clay, some fine sand				5
					Brownish orange clay				
10		2.3							10
					Brownish orange clay				
15	sb-3-15'	14.8							15
					Redish brown silty clay Moist				
20					Total Depth 20'				20
25									25
30									30
35									35
40									40

COMMENTS:

NOTES:
in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

NESCO

For Pratical Solutions

LOG OF BORING: SB-4

Site Name:	Souther's Grocery	Drilling/Boring Method:	Hydraulic Punch	Total Boring Depth (ft):	20
Project Number:	21-1768	Sampling Method:	Continuous core	Measuring Point Elev. (ft-msl):	N/A
Location:	Campobello, SC	Subcontractor/Drillers:	Billy Ewing	Latitude	35° 03.49'
Date/Time Started:	7/23/02	SC Registration	SC #1505	Longitude	81° 11.00'
Date/Time Completed:	7/23/02	Monitoring Equipment:	OVA	Geologist/Engineer:	Brad Defee

ft-bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)			Construction	ft-bgs
5		2.3			Red silty clay, some fine sand				5
					Brownish orange clay				
10		2.3							10
					Brownish orange clay				
15		42.7							15
					Moist Redish brown silty clay				
20					Total Depth 20'				20
25									25
30									30
35									35
40									40

COMMENTS:

NOTES:
in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

NESCO

For Pratical Solutions

LOG OF BORING: SB-5

Site Name:	Souther's Grocery	Drilling/Boring Method:	Hydraulic Punch	Total Boring Depth (ft):	20
Project Number:	21-1768	Sampling Method:	Continuous core	Measuring Point Elev. (ft-msl):	N/A
Location:	Campobello, SC	Subcontractor/Drillers:	Billy Ewing	Latitude	35° 03.49'
Date/Time Started:	7/23/02	SC Registration	SC #1505	Longitude	81° 11.00'
Date/Time Completed:	7/23/02	Monitoring Equipment:	OVA	Geologist/Engineer:	Brad Defee

ft-bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)			Construction	ft-bgs
5		2.3			Red silty clay, some fine sand				5
					Brownish orange clay				
10		2.3							10
					Brownish orange clay				
15	sb-5-15'	2.3							15
					Moist Redish brown silty clay				
20					Total Depth 20'				20
25									25
30									30
35									35
40									40

COMMENTS:

NOTES:
in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

NESCO

For Pratical Solutions

LOG OF BORING: SB-6

Site Name:	Souther's Grocery	Drilling/Boring Method:	Hydraulic Punch	Total Boring Depth (ft):	20
Project Number:	21-1768	Sampling Method:	Continuous core	Measuring Point Elev. (ft-msl):	N/A
Location:	Campobello, SC	Subcontractor/Drillers:	Billy Ewing	Latitude	35° 03.49'
Date/Time Started:	7/24/02	SC Registration	SC #1505	Longitude	81° 11.00'
Date/Time Completed:	7/24/02	Monitoring Equipment:	OVA	Geologist/Engineer:	Brad Defee

ft-bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)			Construction	ft-bgs
5		2.3			Red silty clay, some fine sand				5
10		2.3			Brownish orange clay				10
15		2.3			Brownish orange clay				15
20	sb-6-18'	255			Redish brown silty clay Moist Total Depth 20'				20
25									25
30									30
35									35
40									40

COMMENTS:

NOTES:

in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

NESCO

For Pratical Solutions

LOG OF BORING: SB-7

Site Name:	Souther's Grocery	Drilling/Boring Method:	Hydraulic Punch	Total Boring Depth (ft):	20
Project Number:	21-1768	Sampling Method:	Continuous core	Measuring Point Elev. (ft-msl):	N/A
Location:	Campobello, SC	Subcontractor/Drillers:	Billy Ewing	Latitude	35° 03.49'
Date/Time Started:	7/24/02	SC Registration	SC #1505	Longitude	81° 11.00'
Date/Time Completed:	7/24/02	Monitoring Equipment:	OVA	Geologist/Engineer:	Brad Defee

ft-bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)			Construction	ft-bgs
5		2.3			Red silty clay, some fine sand				5
10		2.3			Brownish orange clay				10
15		2.3			Brownish orange clay				15
20	sb-7-20'	2.3			Redish brown silty clay Moist Total Depth 20'				20
25									25
30									30
35									35
40									40

COMMENTS:

NOTES:
in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

NESCO

For Pratical Solutions

LOG OF BORING: SB-8

Site Name:	Souther's Grocery	Drilling/Boring Method:	Hydraulic Punch	Total Boring Depth (ft):	25
Project Number:	21-1768	Sampling Method:	Continuous core	Measuring Point Elev. (ft-msl):	N/A
Location:	Campobello, SC	Subcontractor/Drillers:	Billy Ewing	Latitude	35° 03.49'
Date/Time Started:	7/24/02	SC Registration	SC #1505	Longitude	81° 11.00'
Date/Time Completed:	7/24/02	Monitoring Equipment:	OVA	Geologist/Engineer:	Brad Defee

ft -bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)			Construction	ft-bgs
5		2.3			Red silty clay, some fine sand				5
10		2.3			Brownish orange clay				10
15		2.3			Brownish orange clay				15
20		2.3			Redish brown silty clay				20
25	sb-8-23	2.3			Moist Total Depth 25'				25
30									30
35									35
40									40

COMMENTS:

NOTES:
in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

NESCO

For Pratical Solutions

LOG OF BORING: SB-9

Site Name:	Souther's Grocery	Drilling/Boring Method:	Hydraulic Punch	Total Boring Depth (ft):	25
Project Number:	21-1768	Sampling Method:	Continuous core	Measuring Point Elev. (ft-msl):	N/A
Location:	Campobello, SC	Subcontractor/Drillers:	Billy Ewing	Latitude	35° 03.49'
Date/Time Started:	7/24/02	SC Registration	SC #1505	Longitude	81° 11.00'
Date/Time Completed:	7/24/02	Monitoring Equipment:	OVA	Geologist/Engineer:	Brad Defee

ft-bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)	Construction	ft-bgs
5		2.3			Red silty clay, some fine sand		5
10		2.3			Brownish orange clay		10
15		2.3			Brownish orange clay		15
20		2.3			Redish brown silty clay		20
25	sb-9-25'	2.3			Moist Total Depth 25'		25
30							30
35							35
40							40

COMMENTS:

NOTES:
in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

NESCO

For Pratical Solutions

LOG OF BORING: SB-10

Site Name:	Souther's Grocery	Drilling/Boring Method:	Hydraulic Punch	Total Boring Depth (ft):	30
Project Number:	21-1768	Sampling Method:	Continuous core	Measuring Point Elev. (ft-msl):	N/A
Location:	Campobello, SC	Subcontractor/Drillers:	Billy Ewing	Latitude	35° 03.49'
Date/Time Started:	7/25/02	SC Registration	SC #1505	Longitude	81° 11.00'
Date/Time Completed:	7/25/02	Monitoring Equipment:	OVA	Geologist/Engineer:	Brad Defee

ft-bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)			Construction	ft-bgs
5		2.3			Red silty clay, some fine sand				5
10		2.3			Brownish orange clay				10
15		2.3			Brownish orange clay				15
20		2.3			Redish brown silty clay				20
25		2.3			Redish brown clayey silt				25
30		2.3			Moist Total Depth 30'				30
35									35
40									40

COMMENTS:

NOTES:
in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

NESCO

For Pratical Solutions

LOG OF BORING: SB-11

Site Name:	Souther's Grocery	Drilling/Boring Method:	Hydraulic Punch	Total Boring Depth (ft):	17
Project Number:	21-1768	Sampling Method:	Continuous core	Measuring Point Elev. (ft-msl):	N/A
Location:	Campobello, SC	Subcontractor/Drillers:	Billy Ewing	Latitude	35° 03.49'
Date/Time Started:	7/25/02	SC Registration	SC #1505	Longitude	81° 11.00'
Date/Time Completed:	7/25/02	Monitoring Equipment:	OVA	Geologist/Engineer:	Brad Defee

ft-bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)			Construction	ft-bgs
5		2.3			Red silty clay, some fine sand				5
10		2.3			Brownish orange clay				10
15		2.3			Brownish orange clay				15
					Total Depth 17' Refusal at 17'				
20									20
25									25
30									30
35									35
40									40

COMMENTS:

NOTES:

in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

NESCO

For Pratical Solutions

LOG OF BORING: SB-12

Site Name:	Souther's Grocery	Drilling/Boring Method:	Hydraulic Punch	Total Boring Depth (ft):	16
Project Number:	21-1768	Sampling Method:	Continuous core	Measuring Point Elev. (ft-msl):	N/A
Location:	Campobello, SC	Subcontractor/Drillers:	Billy Ewing	Latitude	35° 03.49'
Date/Time Started:	7/25/02	SC Registration	SC #1505	Longitude	81° 11.00'
Date/Time Completed:	7/25/02	Monitoring Equipment:	OVA	Geologist/Engineer:	Brad Defee

ft-bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)			Construction	ft-bgs
5		2.3			Red silty clay, some fine sand				5
10		2.3			Brownish orange clay				10
15		2.3			Brownish orange clay				15
					Total Depth 16' Refusal at 16'				
20									20
25									25
30									30
35									35
40									40

COMMENTS:

NOTES:
in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

NESCO

For Pratical Solutions

LOG OF BORING: SB-13

Site Name:	Souther's Grocery	Drilling/Boring Method:	Hydraulic Punch	Total Boring Depth (ft):	23
Project Number:	21-1768	Sampling Method:	Continuous core	Measuring Point Elev. (ft-msl):	N/A
Location:	Campobello, SC	Subcontractor/Drillers:	Billy Ewing	Latitude	35° 03.49'
Date/Time Started:	7/25/02	SC Registration	SC #1505	Longitude	81° 11.00'
Date/Time Completed:	7/25/02	Monitoring Equipment:	OVA	Geologist/Engineer:	Brad Defee

ft-bgs	Sample No.	OVA (ppm)	Blows/6-in.	Recovery (ft.)	SOIL DESCRIPTION (color, texture, moisture, etc.)			Construction	ft-bgs
5		2.3			Red silty clay, some fine sand				5
10		2.3			Brownish orange clay				10
15		2.3			Brownish orange clay				15
20		2.3			Total Depth 23' Refusal at 23'				20
25									25
30									30
35									35
40									40

COMMENTS:

NOTES:
in - indicates inches
ft - indicates depth in feet
ft-bgs - indicates feet below ground surface
ft-msl - indicates feet above mean sea level
N/A - indicates not applicable to this boring
ppm - indicates parts per million

APPENDIX D

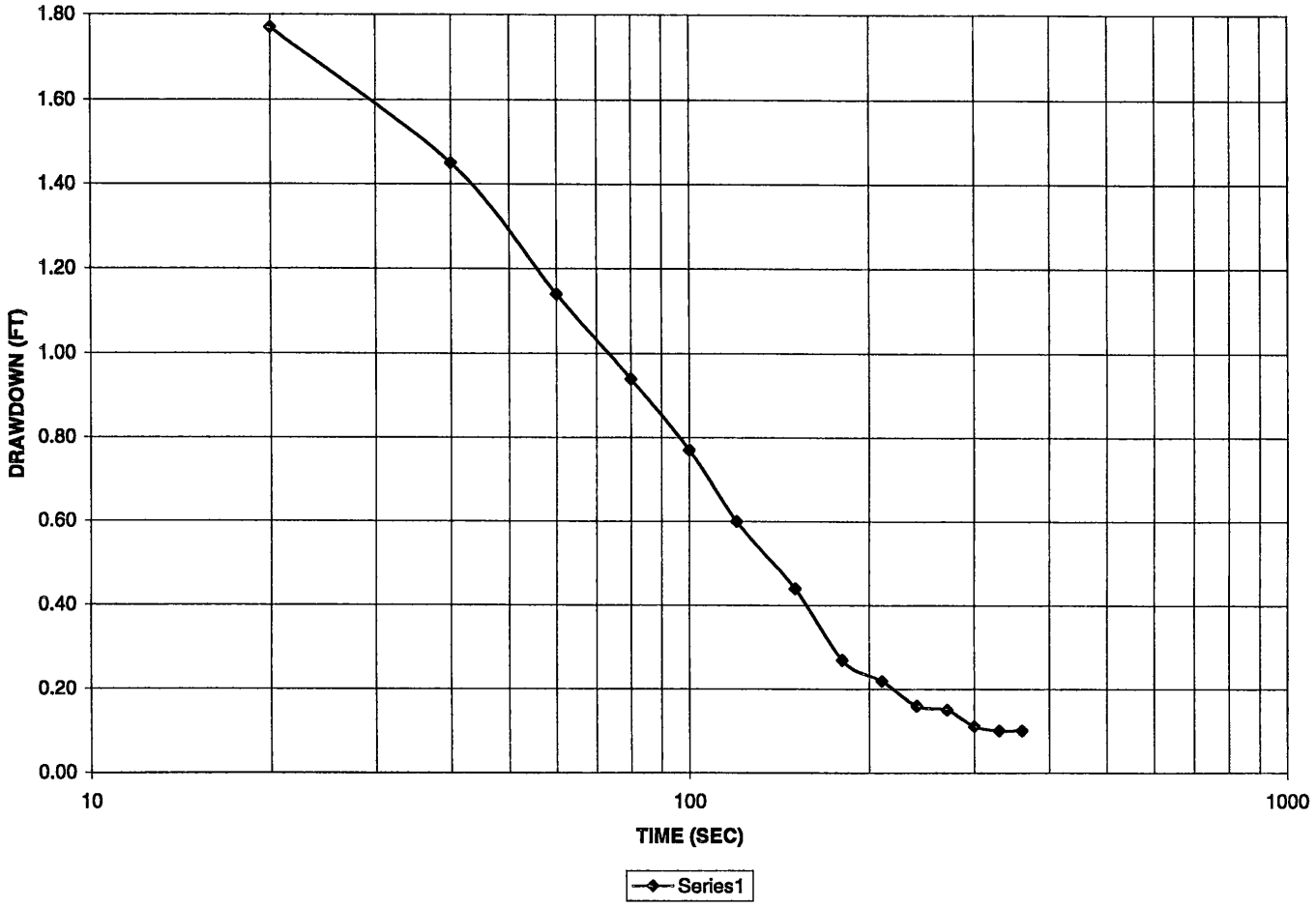
Slug Test Calculations

SLUG TEST MW-2
Souther's Grocery
Campobello, South Carolina

Slug Test: MW-16
Date: 8/30/02
STATIC WL = 23.93

TIME (SEC)	W.L. (FT)	DRAWDOWN (FT)
20	25.70	1.77
40	25.38	1.45
60	25.07	1.14
80	24.87	0.94
100	24.70	0.77
120	24.53	0.60
150	24.37	0.44
180	24.20	0.27
210	24.15	0.22
240	24.09	0.16
270	24.08	0.15
300	24.04	0.11
330	24.03	0.10
360	24.03	0.10

SLUG TEST MW-2
Cedar St and W. Richardson Ave.
Summerville, South Carolina



NESCO Job #21-1215c
Cedar St. and W. Richardson Ave.
UST Permit #17872

9/18/02
Slug Test MW-16

NESCO
For Practical Solutions.

CALCULATION SHEET

PROJECT:	Souther's Grocery	PROJECT NO.:	21-1768A
CALCULATED BY:	JBD	CHECKED BY:	
DATE:	8/30/02	DATE:	
TOPIC:	Slug Test Data Calculations - MW-16	SHEET 1 OF 5	

This form is used for finding a least squares regression curve to the first few relevant data points from a Bouwer and Rice slug test. This calculation sheet requires the input of the y vs. t data points and outputs y_0, y_t, and t for use in the Bouwer and Rice equations (1985).

Input Data Section

Input data in y vs. t coordinates as vectors for the straight-line portion of the y vs. t curve.

Input data coordinates below:

y (feet) t (sec)

$$y := \begin{bmatrix} 1.14 \\ 0.94 \\ 0.77 \\ 0.60 \\ 0.44 \end{bmatrix} \qquad t := \begin{bmatrix} 60 \\ 80 \\ 100 \\ 120 \\ 150 \end{bmatrix}$$

The output graph is plotted from t = 0 to t = $Range_t$ as specified by the user. Enter ending time for plotting range below.

$Range_t := 180$

Input desired y_t value here (default is 1.0):

$y_t := 0.11$

Automated Calculations Section to Determine Least Squares Regression Data

Linear interpolation functions:

$m := slope(t, \overrightarrow{ln(y)})$ $\qquad m = -0.011$

$b := intercept(t, \overrightarrow{ln(y)})$ $\qquad b = 0.787$

$G := e^b$ $\qquad G = 2.196$

Governing least squares fit equation:

$Y(T) := G \cdot e^{m \cdot T}$

Equations to determine plotting variables:

$T := 0, 1 .. Range_t$ $\qquad i := 0 .. length(y) - 1$

$x := 100$

$t_2 := root(G \cdot e^{m \cdot x} - y_t, x)$ $\qquad y_0 := Y(0)$

NESCO
For Practical Solutions.

CALCULATION SHEET

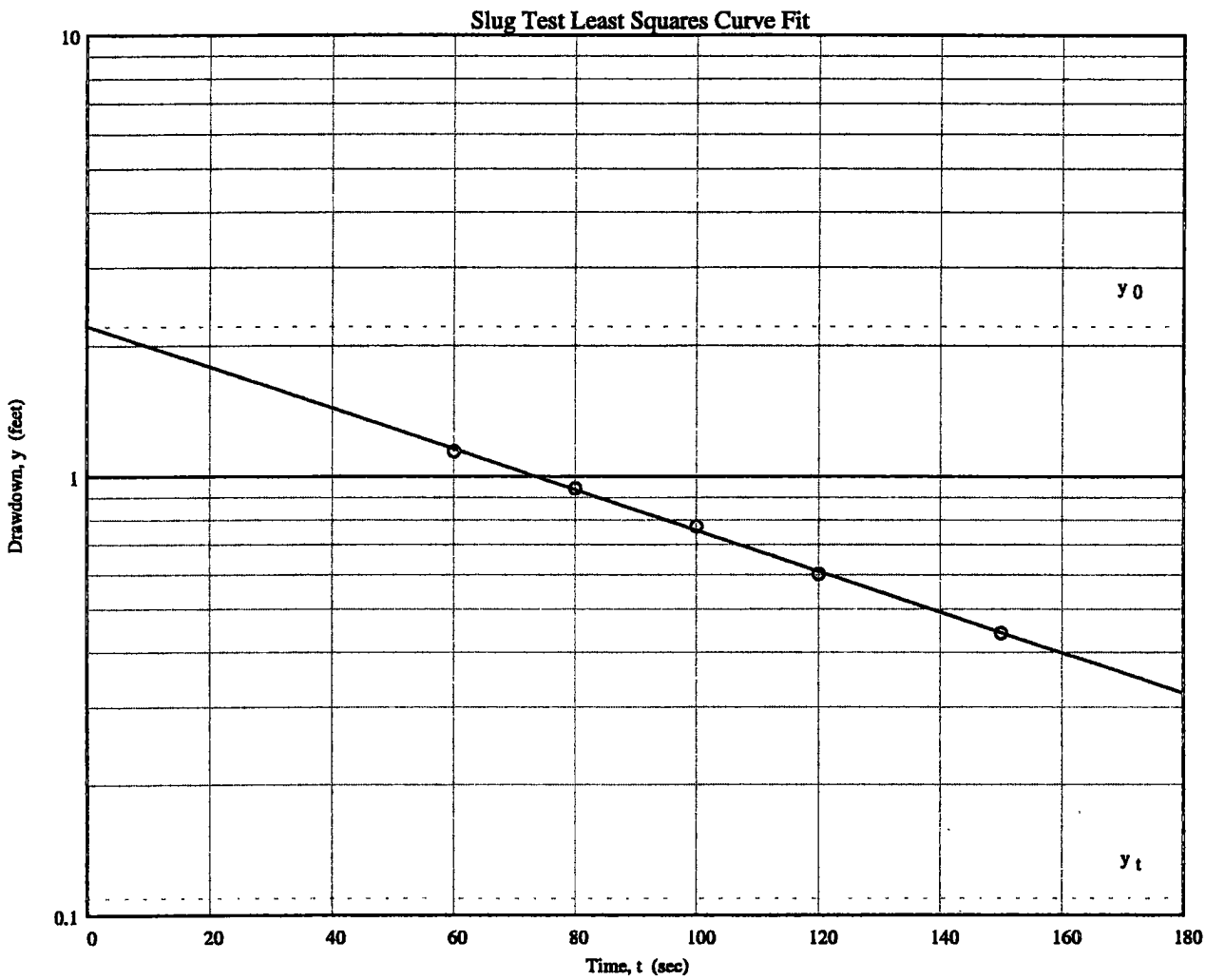
PROJECT:	Souther's Grocery	PROJECT NO.:	21-1768A
CALCULATED BY:	JBD	CHECKED BY:	
DATE:	8/30/02	DATE:	
TOPIC:	Slug Test Data Calculations - MW-16	SHEET 2 OF 5	

Output Section

$y_0 = 2.196$

$y_t = 0.11$ ===Values for input to Bouwer and Rice (1985)

$t_2 = 279.751$



OOO Data Points
—— Least Squares Regression

NESCO
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CALCULATION SHEET

PROJECT:	Souther's Grocery	PROJECT NO.:	21-1768A
CALCULATED BY:	JBD	CHECKED BY:	
DATE:	8/30/02	DATE:	
TOPIC:	Slug Test Data Calculations - MW-16	SHEET 3 OF 5	

Curve Matching for Modified Bouwer and Rice Partially Penetrating Well Constant, A

$$Adata := \begin{bmatrix} 3.8 & 1.7 \\ 12 & 1.9 \\ 24 & 2.3 \\ 39 & 2.6 \\ 80 & 3.8 \\ 200 & 6.0 \\ 400 & 7.9 \\ 700 & 8.75 \\ 1000 & 9.3 \\ 1600 & 9.7 \end{bmatrix}$$

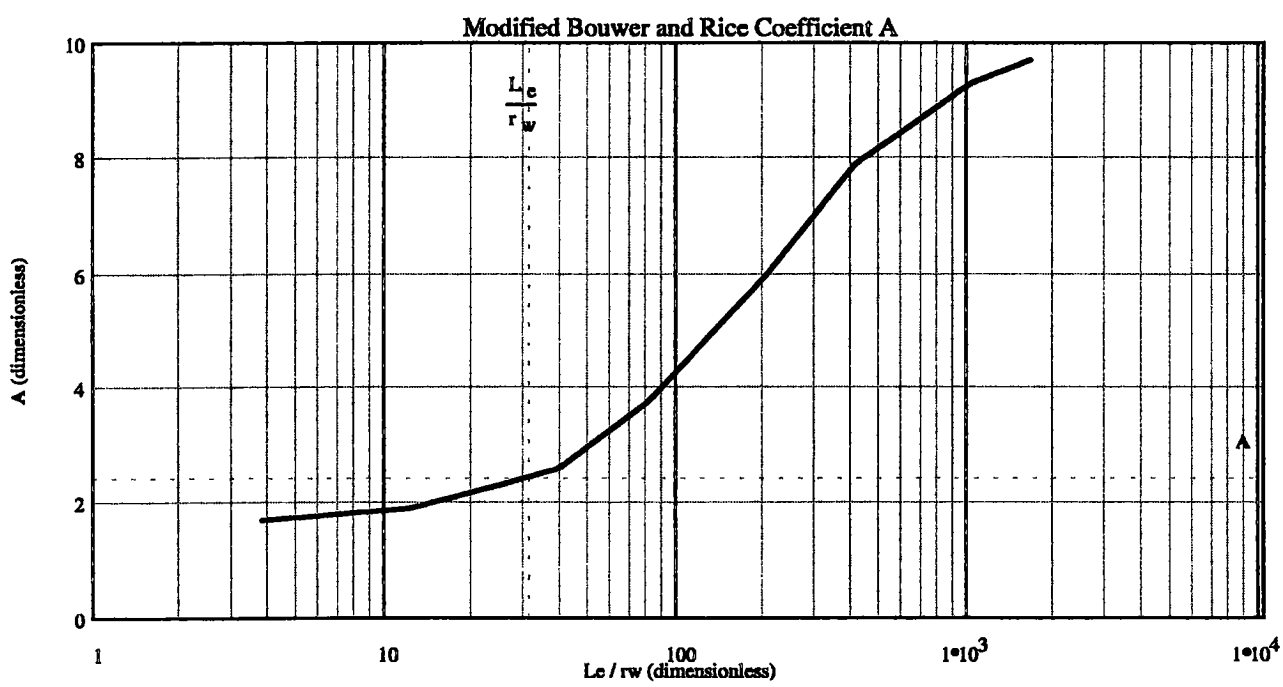
$X_A := Adata^{<0>}$ $\quad Y_A := Adata^{<1>}$ $\quad i := 0..\,length(X_A) - 1$

$Xlog_{A_i} := log(X_{A_i})$

$Afit(x) := linterp(Xlog_A, Y_A, x)$

$scale := 100$ $\quad j := 0..\,scale$

$$x_j := min(Xlog_A) + j \cdot \frac{max(Xlog_A) - min(Xlog_A)}{scale} \qquad A := Afit\left(log\left(\frac{L_e}{r_w}\right)\right)$$



NESCO
For Practical Solutions.

CALCULATION SHEET

PROJECT:	Souther's Grocery	PROJECT NO.:	21-1768A
CALCULATED BY:	JBD	CHECKED BY:	
DATE:	8/30/02	DATE:	
TOPIC:	Slug Test Data Calculations - MW-16	SHEET 4 OF 5	

Curve Matching for Modified Bouwer and Rice Partially Penetrating Well Constant, B

$$Bdata := \begin{bmatrix} 3.8 & 0.25 \\ 10 & 0.27 \\ 20 & 0.30 \\ 50 & 0.55 \\ 150 & 1.1 \\ 200 & 1.2 \\ 250 & 1.35 \\ 500 & 2.2 \\ 800 & 2.7 \\ 1600 & 3.25 \end{bmatrix}$$

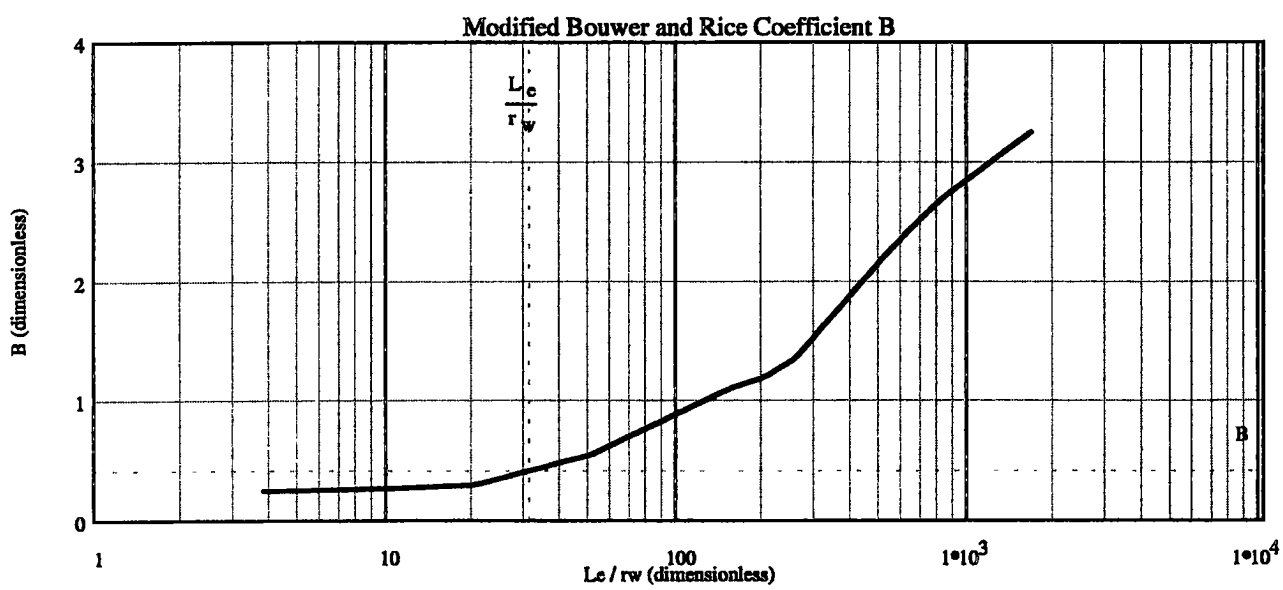
$X_B := Bdata^{<0>}$ $\quad Y_B := Bdata^{<1>}$ $\quad k := 0 .. \text{length}(X_B) - 1$

$Xlog_{B_k} := \log(X_{B_k})$

$Bfit(y) := \text{linterp}(Xlog_B, Y_B, y)$

$l := 0 .. scale$

$y_l := \min(Xlog_B) + l \cdot \dfrac{\max(Xlog_B) - \min(Xlog_B)}{scale}$ $\qquad B := Bfit\left(\log\left(\dfrac{L_e}{r_w}\right)\right)$



NESCO
For Practical Solutions.

CALCULATION SHEET

PROJECT:	Souther's Grocery	PROJECT NO.:	21-1768A
CALCULATED BY:	JBD	CHECKED BY:	
DATE:	8/30/02	DATE:	
TOPIC:	Slug Test Data Calculations - MW-16	SHEET 5 OF 5	

Known Constants

Input the following values:

$r_c := 2.47 \cdot in$ $\quad L_w := 11.07 \cdot ft$

$r_w := 4.25 \cdot in$ $\quad H := 46.07 \cdot ft$

$L_e := 11.07 \cdot ft$

$A = 2.463$ $\quad B = 0.422$

From the least squares curve fit above:

$y_0 = 2.196$

$y_t = 0.11$

$\tau := t_2 \cdot sec$ $\quad \tau = 279.751\ sec$

Defining Functions – Modified Bouwer and Rice Slug Test Equations

$$\ln Rc := \left[\frac{1.1}{\ln\left(\frac{L_w}{r_w}\right)} + \frac{A + B \cdot \ln\left(\frac{H - L_w}{r_w}\right)}{\left(\frac{L_e}{r_w}\right)}\right]^{-1}$$

$$K := \frac{r_c^2 \cdot \ln Rc}{2 \cdot L_e} \cdot \left(\frac{1}{\tau}\right) \cdot \ln\left(\frac{y_0}{y_t}\right)$$

Solution Block, K in terms of ft/day and cm/sec

$$K = 3.8 \cdot \frac{ft}{day}$$

$$K = 1.4 \cdot 10^{-3} \cdot \frac{cm}{sec}$$

APPENDIX E

Fate and Transport Modeling Data

BIOSCREEN Natural Attenuation Decision Support System

NESCO — *Version 1.3*

Souther's Grocery
UST Site 08650
Benzene, Aerobic Low

Data Input Instructions:

115 → 1. Enter value directly....or
or
0.02 → 2. Calculate by filling in grey cells below. (To restore formulas, hit button below).

Variable* → Data used directly in model.
20 → Value calculated by model. (Don't enter any data).

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	17.6	*(ft/yr)*
or		or	
Hydraulic Conductivity	*K*	7.3E-04	*(cm/sec)*
Hydraulic Gradient	*I*	0.007	*(ft/ft)*
Porosity	*n*	0.3	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	17.0	*(ft)*
Transverse Dispersivity*	*alpha y*	1.7	*(ft)*
Vertical Dispersivity*	*alpha z*	0.0	*(ft)*
or		or	
Estimated Plume Length	*Lp*	450	*(ft)*

3. ADSORPTION

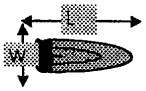
Retardation Factor*	*R*	1.4	*(-)*
or		or	
Soil Bulk Density	*rho*	1.65	*(kg/l)*
Partition Coefficient	*Koc*	81	*(L/kg)*
FractionOrganicCarbon	*foc*	0.001	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	5.0E+1	*(per yr)*
or		or	
Solute Half-Life	*t-half*	0.014	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	1.26	*(mg/L)*
Delta Nitrate*	*NO3*	5.11	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	0.24	*(mg/L)*
Delta Sulfate*	*SO4*	2.74	*(mg/L)*
Observed Methane*	*CH4*		*(mg/L)*

5. GENERAL

Modeled Area Length*	600	*(ft)*
Modeled Area Width*	250	*(ft)*
Simulation Time*	40	*(yr)*



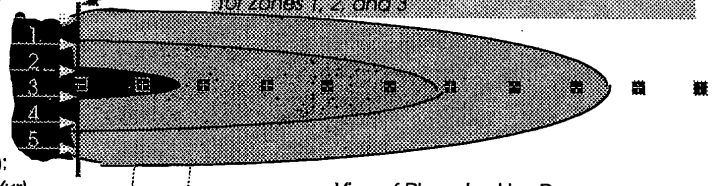
6. SOURCE DATA

Source Thickness in Sat.Zone* 10 *(ft)*

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3

Source Zones:

Width* (ft)	Conc. (mg/L)*
25	25
50	100
50	226
50	100
25	25



View of Plume Looking Down

Source Decay (see Help):

SourceHalflife*	>1000	*(yr)*
Soluble Mass	or	
In NAPL, Soil	50000	*(Kg)*

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Dist. from Source (ft)	Concentration (mg/L)
0	
60	
120	
180	
240	
300	
360	
420	
480	
540	
600	

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — **View Output**

RUN ARRAY — **View Output**

Help — Recalculate This Sheet

Paste Example Dataset

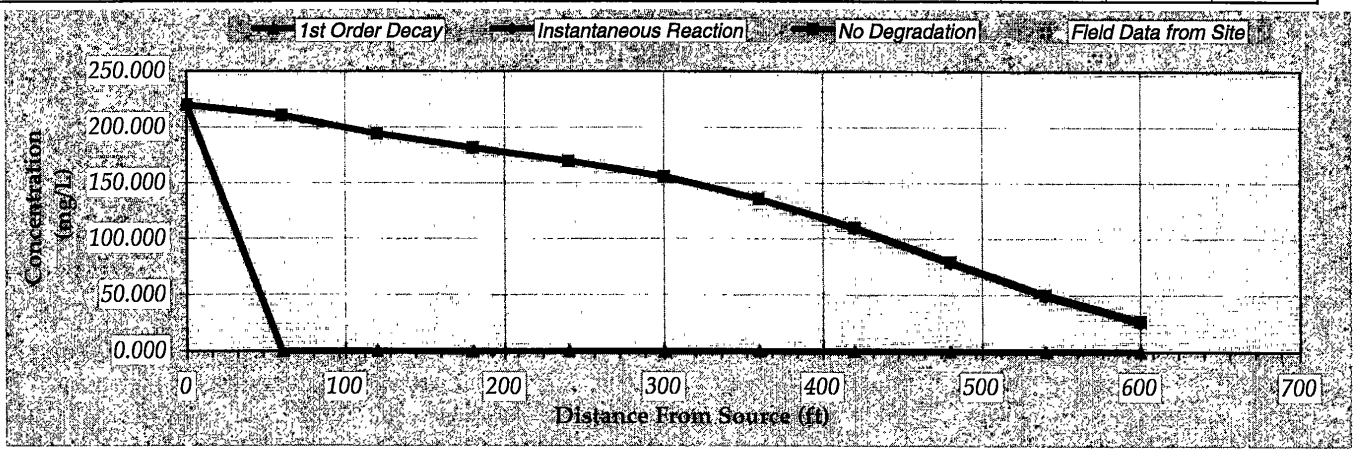
Restore Formulas for Vs, Dispersivities, R, lambda, other

NESCO Job #21-1768
Souther's Grocery
Benzene, Aerobic Low

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

Distance from Source (ft)

TYPE OF MODEL	0	60	120	180	240	300	360	420	480	540	600
No Degradation	219.998	210.745	194.315	181.696	169.949	155.671	135.946	109.808	79.637	50.394	27.334
1st Order Decay	219.998	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	219.871	210.637	194.225	181.611	169.840	155.481	135.585	109.169	78.644	49.032	25.670
Field Data from Site											



Calculate Animation

Time:

40 Years

Return to Input

Recalculate This Sheet

NESCO Job #21-1768
Souther's Grocery
Benzene, Aerobic Low

BIOSCREEN Natural Attenuation Decision Support System

NESCO — *Version 1.3*

Souther's Grocery
UST Site 08650
Benzene, Aerobic Low

Data Input Instructions:

115 ↑ or 0.02 — 1. Enter value directly....or 2. Calculate by filling in grey cells below. (To restore formulas, hit button below).

Variable* → Data used directly in model.

20 → Value calculated by model. (Don't enter any data).

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	17.6	*(ft/yr)*
or		↑ or	
Hydraulic Conductivity	*K*	7.3E-04	*(cm/sec)*
Hydraulic Gradient	*i*	0.007	*(ft/ft)*
Porosity	*n*	0.3	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	17.0	*(ft)*
Transverse Dispersivity*	*alpha y*	1.7	*(ft)*
Vertical Dispersivity*	*alpha z*	0.0	*(ft)*
or		↑ or	
Estimated Plume Length	*Lp*	450	*(ft)*

3. ADSORPTION

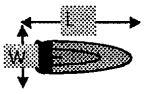
Retardation Factor*	*R*	1.4	*(-)*
or		↑ or	
Soil Bulk Density	*rho*	1.65	*(kg/l)*
Partition Coefficient	*Koc*	81	*(L/kg)*
FractionOrganicCarbon	*foc*	0.001	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	5.0E+1	*(per yr)*
or		↑ or	
Solute Half-Life	*t-half*	0.014	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	1.26	*(mg/L)*
Delta Nitrate*	*NO3*	5.11	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	0.24	*(mg/L)*
Delta Sulfate*	*SO4*	2.74	*(mg/L)*
Observed Methane*	*CH4*		*(mg/L)*

5. GENERAL

Modeled Area Length*	600	*(ft)*
Modeled Area Width*	250	*(ft)*
Simulation Time*	40	*(yr)*



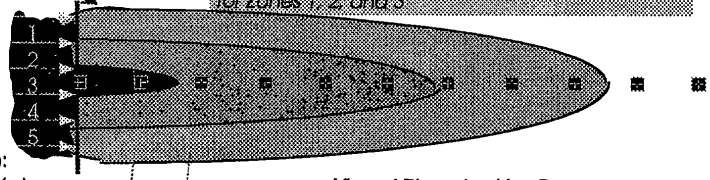
6. SOURCE DATA

Source Thickness in Sat.Zone* 10 *(ft)*

Vertical Plane Source: Look at Plume Cross Section and Input Concentrations & Widths for Zones 1, 2, and 3

Source Zones:

Width* (ft)	Conc. (mg/L)*
25	0.001
50	0.1
50	20.95
50	0.1
25	0.001



View of Plume Looking Down

Source Decay (see Help):

SourceHalflife*	>1000	*(yr)*
Soluble Mass	↑ or	
In NAPL, Soil	50000	*(Kg)*

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Dist. from Source (ft)	0	60	120	180	240	300	360	420	480	540	600
Concentration (mg/L)											

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — **View Output**

RUN ARRAY — **View Output**

Help — Recalculate This Sheet

Paste Example Dataset

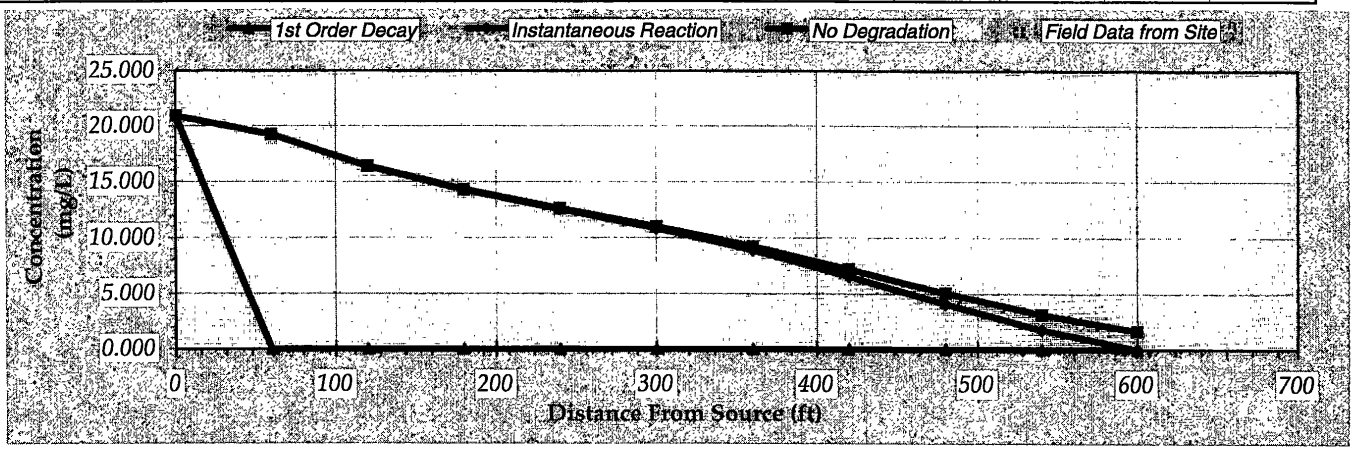
Restore Formulas for Vs, Dispersivities, R, lambda, other

NESCO Job #21-1768
Souther's Grocery
Benzene, Aerobic Low, SSTL

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

Distance from Source (ft)

TYPE OF MODEL	0	60	120	180	240	300	360	420	480	540	600
No Degradation	20.924	19.245	16.389	14.294	12.617	11.012	9.233	7.204	5.072	3.136	1.668
1st Order Decay	20.924	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	20.910	19.232	16.376	14.270	12.554	10.854	8.892	6.574	4.078	1.774	0.004
Field Data from Site											



Calculate Animation

Time:

40 Years

Return to Input

Recalculate This Sheet

NESCO Job #21-1768
Souther's Grocery
Benzene, Aerobic Low, SSTL

BIOSCREEN Natural Attenuation Decision Support System

NESCO — *Version 1.3*

Souther's Grocery
UST Site 08650
Toluene, Aerobic Low

Data Input Instructions:

115 → 1. Enter value directly....or
or
0.02 → 2. Calculate by filling in grey cells below. (To restore formulas, hit button below).

Variable* → Data used directly in model.

20 → Value calculated by model. (Don't enter any data).

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	17.6	*(ft/yr)*
or		or	
Hydraulic Conductivity	*K*	7.3E-04	*(cm/sec)*
Hydraulic Gradient	*I*	0.007	*(ft/ft)*
Porosity	*n*	0.3	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	17.0	*(ft)*
Transverse Dispersivity*	*alpha y*	1.7	*(ft)*
Vertical Dispersivity*	*alpha z*	0.0	*(ft)*
or		or	
Estimated Plume Length	*Lp*	450	*(ft)*

3. ADSORPTION

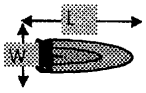
Retardation Factor*	*R*	1.7	*(-)*
or		or	
Soil Bulk Density	*rho*	1.65	*(kg/l)*
Partition Coefficient	*Koc*	133	*(L/kg)*
FractionOrganicCarbon	*foc*	0.001	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	6.3E+1	*(per yr)*
or		or	
Solute Half-Life	*t-half*	0.011	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	1.26	*(mg/L)*
Delta Nitrate*	*NO3*	5.11	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	0.24	*(mg/L)*
Delta Sulfate*	*SO4*	2.74	*(mg/L)*
Observed Methane*	*CH4*		*(mg/L)*

5. GENERAL

Modeled Area Length*	600	*(ft)*
Modeled Area Width*	250	*(ft)*
Simulation Time*	40	*(yr)*



6. SOURCE DATA

Source Thickness in Sat.Zone* 10 *(ft)*

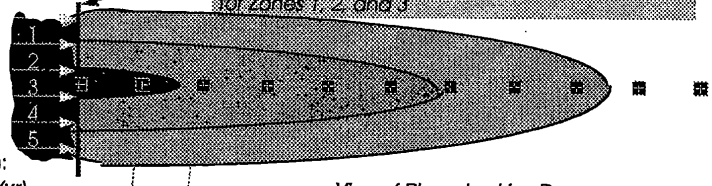
Source Zones:

Width* (ft)	Conc. (mg/L)*
25	
50	3
50	301
50	3
25	0

Source Decay (see Help):

SourceHalflife*	>1000	*(yr)*
Soluble Mass	or	
In NAPL, Soil	50000	*(Kg)*

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Dist. from Source (ft)	0	60	120	180	240	300	360	420	480	540	600
Concentration (mg/L)											

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — **View Output**

RUN ARRAY — **View Output**

Help — Recalculate This Sheet

Paste Example Dataset

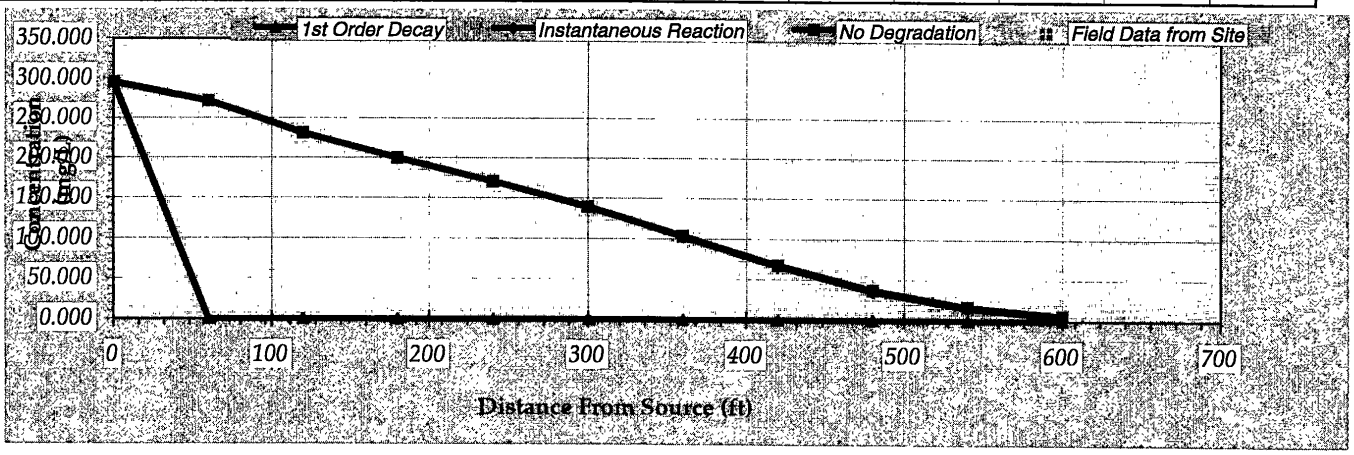
Restore Formulas for Vs, Dispersivities, R, lambda, other

NESCO Job #21-1768
Souther's Grocery
Toluene, Aerobic Low

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

Distance from Source (ft)

TYPE OF MODEL	0	60	120	180	240	300	360	420	480	540	600
No Degradation	295.535	272.321	231.765	200.086	171.082	139.375	103.658	67.573	37.302	17.042	6.328
1st Order Decay	295.535	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	295.356	272.174	231.645	199.952	170.857	138.944	102.898	66.414	35.769	15.242	4.381
Field Data from Site											



Calculate Animation

Time:

40 Years

Return to Input

Recalculate This Sheet

NESCO Job #21-1768
Souther's Grocery
Toluene, Aerobic Low

BIOSCREEN Natural Attenuation Decision Support System

NESCO — *Version 1.3*

Souther's Grocery
UST Site 08650
Toluene, Aerobic Low

Data Input Instructions:

115 → 1. Enter value directly....or
or
0.02 → 2. Calculate by filling in grey cells below. (To restore formulas, hit button below).

Variable* → Data used directly in model.
20 → Value calculated by model. (Don't enter any data).

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	17.6	*(ft/yr)*
or		↑ or	
Hydraulic Conductivity	*K*	7.3E-04	*(cm/sec)*
Hydraulic Gradient	*I*	0.007	*(ft/ft)*
Porosity	*n*	0.3	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	17.0	*(ft)*
Transverse Dispersivity*	*alpha y*	1.7	*(ft)*
Vertical Dispersivity*	*alpha z*	0.0	*(ft)*
or		↑ or	
Estimated Plume Length	*Lp*	450	*(ft)*

3. ADSORPTION

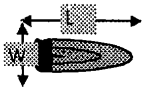
Retardation Factor*	*R*	1.7	*(-)*
or		↑ or	
Soil Bulk Density	*rho*	1.65	*(kg/l)*
Partition Coefficient	*Koc*	133	*(L/kg)*
FractionOrganicCarbon	*foc*	0.001	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	6.3E+1	*(per yr)*
or		↑ or	
Solute Half-Life	*t-half*	0.011	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	1.26	*(mg/L)*
Delta Nitrate*	*NO3*	5.11	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	0.24	*(mg/L)*
Delta Sulfate*	*SO4*	2.74	*(mg/L)*
Observed Methane*	*CH4*		*(mg/L)*

5. GENERAL

Modeled Area Length*	600	*(ft)*
Modeled Area Width*	250	*(ft)*
Simulation Time*	40	*(yr)*



6. SOURCE DATA

Source Thickness In Sat.Zone* 10 *(ft)*

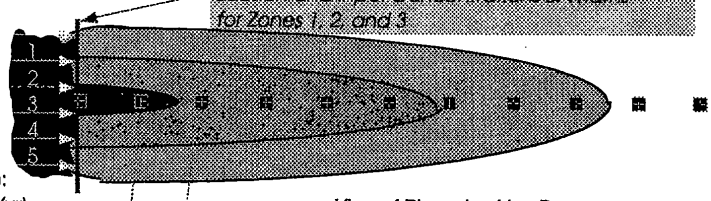
Source Zones:

Width* (ft)	Conc. (mg/L)*
25	0.5
50	50
50	83
50	50
25	0.5

Source Decay (see Help):

SourceHalflife*	>1000	*(yr)*
Soluble Mass	↑ or	
In NAPL, Soil	50000	*(Kg)*

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Dist. from Source (ft)	0	60	120	180	240	300	360	420	480	540	600
Concentration (mg/L)											

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — **View Output**

RUN ARRAY — **View Output**

Help — Recalculate This Sheet

Paste Example Dataset

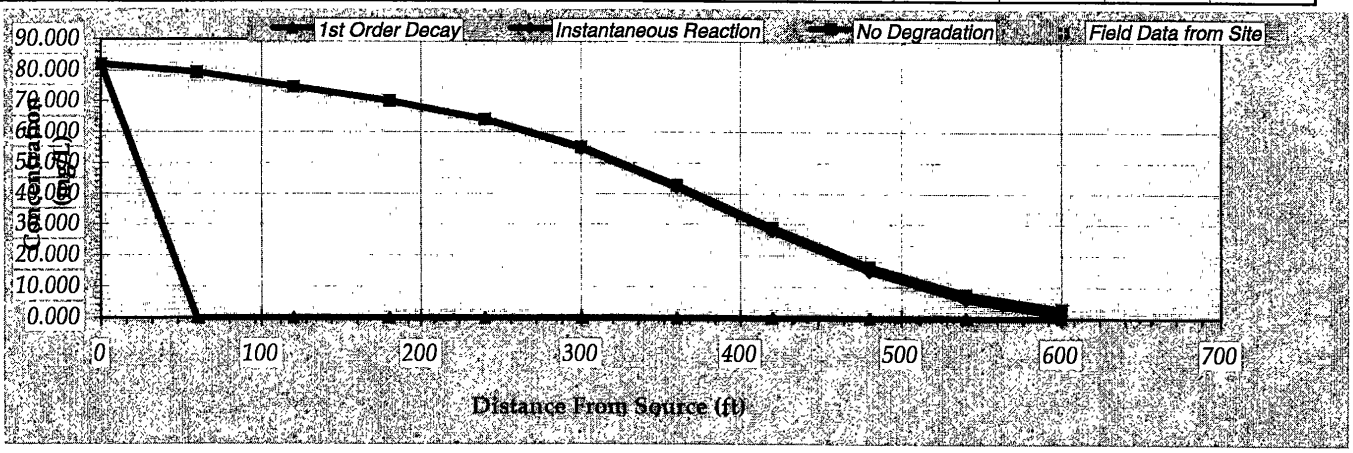
Restore Formulas for Vs, Dispersivities, R, lambda, other

NESCO Job #21-1768
Souther's Grocery
Toluene, Aerobic Low, SSTL

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

Distance from Source (ft)

TYPE OF MODEL	0	60	120	180	240	300	360	420	480	540	600
No Degradation	82.096	79.473	74.705	70.149	64.148	55.133	42.808	28.909	16.444	7.705	2.923
1st Order Decay	82.096	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	82.057	79.437	74.664	70.075	63.973	54.749	42.091	27.786	14.938	5.921	0.983
Field Data from Site											



Calculate Animation

Time:

40 Years

Return to Input

Recalculate This Sheet

NESCO Job #21-1768
Souther's Grocery
Toluene, Aerobic Low, SSTL

BIOSCREEN Natural Attenuation Decision Support System

NESCO — *Version 1.3*

Souther's Grocery
UST Site 08650
Ethylbenzene, Aerobic Low

Data Input Instructions:

115 ⇢ 1. Enter value directly....or
or 2. Calculate by filling in grey cells below. (To restore formulas, hit button below).
0.02

Variable* ⇢ Data used directly in model.
20 ⇢ Value calculated by model. (Don't enter any data).

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	17.6	*(ft/yr)*
or		or	
Hydraulic Conductivity	*K*	7.3E-04	*(cm/sec)*
Hydraulic Gradient	*I*	0.007	*(ft/ft)*
Porosity	*n*	0.3	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	17.0	*(ft)*
Transverse Dispersivity*	*alpha y*	1.7	*(ft)*
Vertical Dispersivity*	*alpha z*	0.0	*(ft)*
or		or	
Estimated Plume Length	*Lp*	450	*(ft)*

3. ADSORPTION

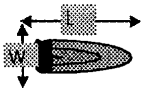
Retardation Factor*	*R*	2.0	*(-)*
or		or	
Soil Bulk Density	*rho*	1.65	*(kg/l)*
Partition Coefficient	*Koc*	176	*(L/kg)*
FractionOrganicCarbon	*foc*	0.001	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	8.7E+1	*(per yr)*
or		or	
Solute Half-Life	*t-half*	0.008	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	1.26	*(mg/L)*
Delta Nitrate*	*NO3*	5.11	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	0.24	*(mg/L)*
Delta Sulfate*	*SO4*	2.74	*(mg/L)*
Observed Methane*	*CH4*		*(mg/L)*

5. GENERAL

Modeled Area Length*	600	*(ft)*
Modeled Area Width*	250	*(ft)*
Simulation Time*	40	*(yr)*



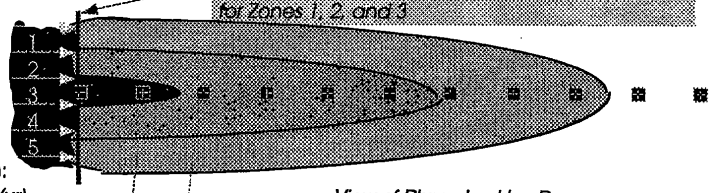
6. SOURCE DATA

Source Thickness in Sat.Zone* 10 *(ft)*

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3

Source Zones:

Width* (ft)	Conc. (mg/L)*
25	0.002
50	0.2
50	280
50	0.2
25	0.002



View of Plume Looking Down

Source Decay (see Help):

SourceHalflife*	>1000	*(yr)*
Soluble Mass	or	
In NAPL, Soil	50000	*(Kg)*

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Dist. from Source (ft)	0	60	120	180	240	300	360	420	480	540	600
Concentration (mg/L)											

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — **View Output**

RUN ARRAY — **View Output**

Help — Recalculate This Sheet

Paste Example Dataset

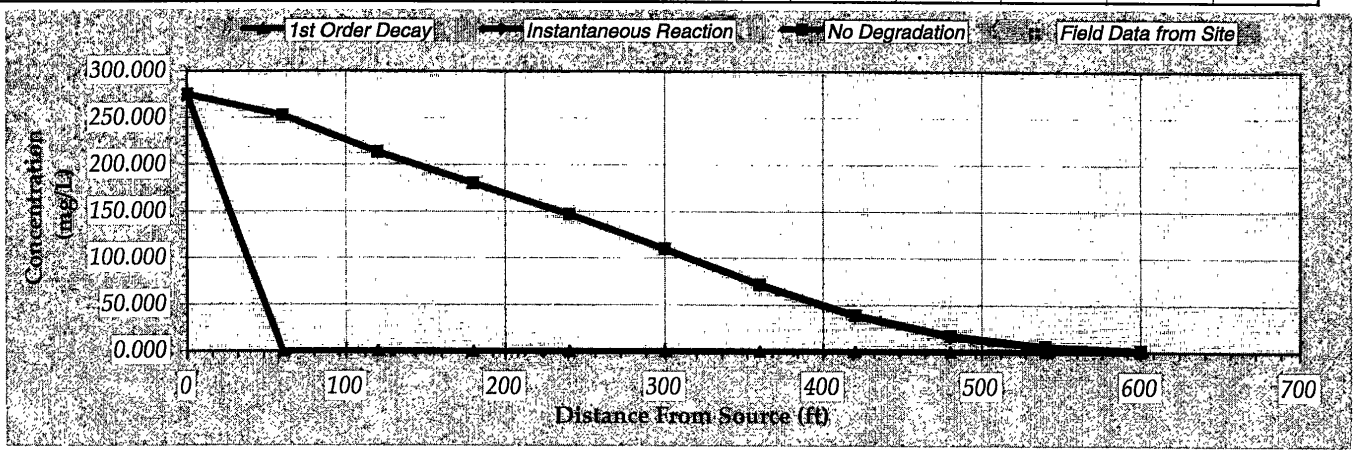
Restore Formulas for Vs, Dispersivities, R, lambda, other

NESCO Job #21-1768
Souther's Grocery
Ethylbenzene, Aerobic Low

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

Distance from Source (ft)

TYPE OF MODEL	0	60	120	180	240	300	360	420	480	540	600
No Degradation	275.353	253.064	213.642	180.596	147.396	110.347	72.026	39.186	17.257	6.013	1.632
1st Order Decay	275.353	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	275.184	252.925	213.519	180.425	147.069	109.716	70.982	37.723	15.486	4.072	0.000
Field Data from Site											



Calculate Animation

Time:

40 Years

Return to Input

Recalculate This Sheet

NESCO Job #21-1768
Souther's Grocery
Ethylbenzene, Aerobic Low

BIOSCREEN Natural Attenuation Decision Support System

NESCO *Version 1.3*

Souther's Grocery
UST Site 08650
Ethylbenzene, Aerobic Low

Data Input Instructions:

115 → 1. Enter value directly....or
↑ or 2. Calculate by filling in grey
0.02 cells below. (To restore formulas, hit button below).

Variable* → Data used directly in model.
20 → Value calculated by model. (Don't enter any data).

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	17.6	*(ft/yr)*
or		↑ or	
Hydraulic Conductivity	*K*	7.3E-04	*(cm/sec)*
Hydraulic Gradient	*i*	0.007	*(ft/ft)*
Porosity	*n*	0.3	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	17.0	*(ft)*
Transverse Dispersivity*	*alpha y*	1.7	*(ft)*
Vertical Dispersivity*	*alpha z*	0.0	*(ft)*
or		↑ or	
Estimated Plume Length	*Lp*	450	*(ft)*

3. ADSORPTION

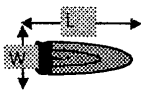
Retardation Factor*	*R*	2.0	*(-)*
or		↑ or	
Soil Bulk Density	*rho*	1.65	*(kg/l)*
Partition Coefficient	*Koc*	176	*(L/kg)*
FractionOrganicCarbon	*foc*	0.001	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	8.7E+1	*(per yr)*
or		↑ or	
Solute Half-Life	*t-half*	0.008	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	1.26	*(mg/L)*
Delta Nitrate*	*NO3*	5.11	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	0.24	*(mg/L)*
Delta Sulfate*	*SO4*	2.74	*(mg/L)*
Observed Methane*	*CH4*		*(mg/L)*

5. GENERAL

Modeled Area Length*	600	*(ft)*
Modeled Area Width*	250	*(ft)*
Simulation Time*	40	*(yr)*



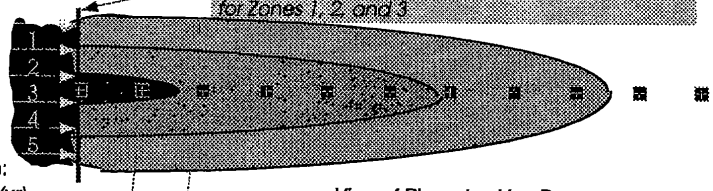
6. SOURCE DATA

Source Thickness in Sat.Zone* 10 *(ft)*

Vertical Plane Source: Look at Plume Cross-Section and input Concentrations & Widths for Zones 1, 2, and 3

Source Zones:

Width* (ft)	Conc. (mg/L)*
25	0.05
50	100
50	280
50	100
25	0.05



View of Plume Looking Down

Source Decay (see Help):

SourceHalflife*	1000	*(yr)*
Soluble Mass	↑ or	
In NAPL, Soil	50000	*(Kg)*

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Dist. from Source (ft)	0	60	120	180	240	300	360	420	480	540	600
Concentration (mg/L)											

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — **View Output**

RUN ARRAY — **View Output**

Help — Recalculate This Sheet

Paste Example Dataset

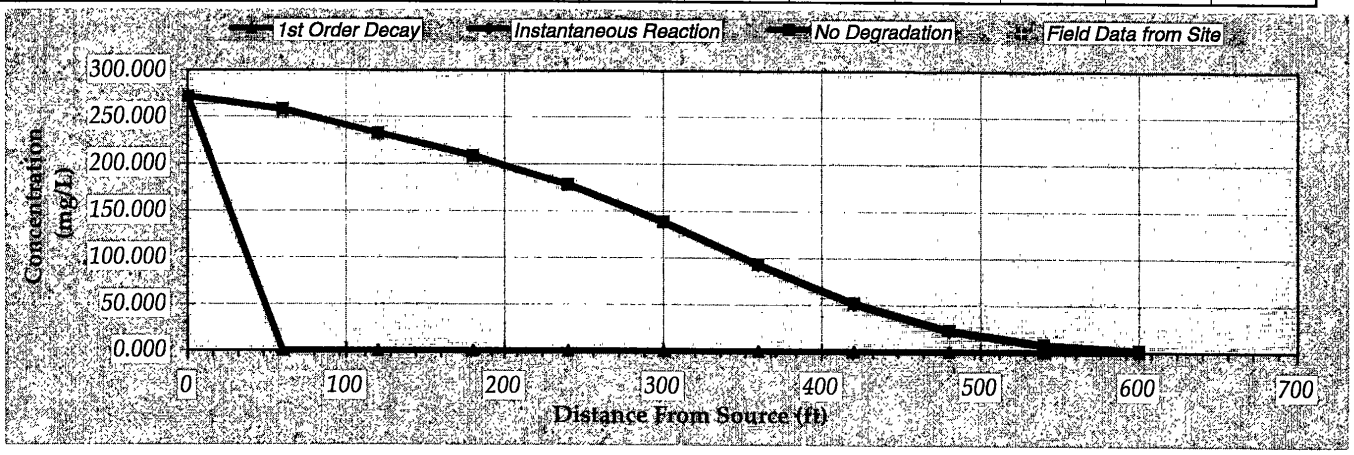
Restore Formulas for Vs, Dispersivities, R, lambda, other

NESCO Job #21-1768
Souther's Grocery
Ethylbenzene, Aerobic Low, SSTL

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

Distance from Source (ft)

TYPE OF MODEL	0	60	120	180	240	300	360	420	480	540	600
No Degradation	272.091	258.369	232.781	208.404	178.407	138.930	93.691	52.289	23.525	8.347	2.301
1st Order Decay	272.091	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	271.948	258.248	232.667	208.238	178.081	138.300	92.647	50.827	21.754	6.406	0.290
Field Data from Site											



Calculate Animation

Time:

40 Years

Return to Input

Recalculate This Sheet

NESCO Job #21-1768
Souther's Grocery
Ethylbenzene, Aerobic Low, SSTL

BIOSCREEN Natural Attenuation Decision Support System

NESCO — *Version 1.3*

Souther's Grocery
UST Site 08650
Xylenes, Aerobic Low

Data Input Instructions:

115 → 1. Enter value directly....or
or
0.02 → 2. Calculate by filling in grey cells below. (To restore formulas, hit button below).

Variable* → Data used directly in model.
20 → Value calculated by model. (Don't enter any data).

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	17.6	*(ft/yr)*
or		or	
Hydraulic Conductivity	*K*	7.3E-04	*(cm/sec)*
Hydraulic Gradient	*I*	0.007	*(ft/ft)*
Porosity	*n*	0.3	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	17.0	*(ft)*
Transverse Dispersivity*	*alpha y*	1.7	*(ft)*
Vertical Dispersivity*	*alpha z*	0.0	*(ft)*
or		or	
Estimated Plume Length	*Lp*	450	*(ft)*

3. ADSORPTION

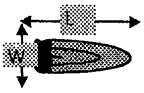
Retardation Factor*	*R*	4.5	*(-)*
or		or	
Soil Bulk Density	*rho*	1.65	*(kg/l)*
Partition Coefficient	*Koc*	639	*(L/kg)*
FractionOrganicCarbon	*foc*	0.001	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	3.6E+1	*(per yr)*
or		or	
Solute Half-Life	*t-half*	0.019	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	1.26	*(mg/L)*
Delta Nitrate*	*NO3*	5.11	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	0.24	*(mg/L)*
Delta Sulfate*	*SO4*	2.74	*(mg/L)*
Observed Methane*	*CH4*		*(mg/L)*

5. GENERAL

Modeled Area Length*	600	*(ft)*
Modeled Area Width*	250	*(ft)*
Simulation Time*	40	*(yr)*



6. SOURCE DATA

Source Thickness in Sat.Zone* 10 *(ft)*

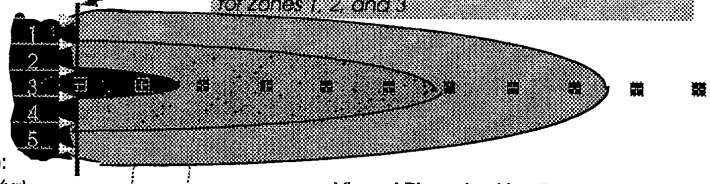
Source Zones:

Width* (ft)	Conc. (mg/L)*
25	
50	2.7
50	278
50	2.7
25	0

Source Decay (see Help):

SourceHalflife*	>1000	*(yr)*
Soluble Mass	or	
In NAPL, Soil	50000	*(Kg)*

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Dist. from Source (ft)	Concentration (mg/L)
0	
60	
120	
180	
240	
300	
360	
420	
480	
540	
600	

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — **View Output**

RUN ARRAY — **View Output**

Help — Recalculate This Sheet

Paste Example Dataset

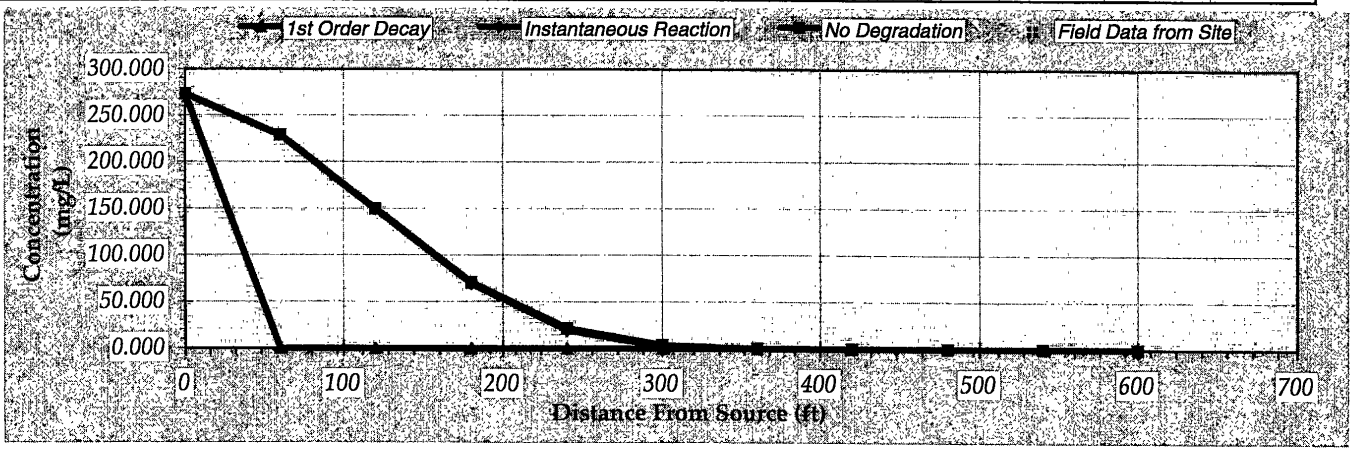
Restore Formulas for Vs, Dispersivities, R, lambda, other

NESCO Job #21-1768
Souther's Grocery
Xylenes, Aerobic Low

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

Distance from Source (ft)

TYPE OF MODEL	0	60	120	180	240	300	360	420	480	540	600
No Degradation	273.337	229.336	149.741	70.900	21.363	3.770	0.370	0.020	0.001	0.000	0.000
1st Order Decay	273.337	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	273.171	229.057	149.083	69.613	19.575	1.779	0.000	0.000	0.000	0.000	0.000
Field Data from Site											



Calculate Animation

Time:

40 Years

Return to Input

Recalculate This Sheet

NESCO Job #21-1768
Souther's Grocery
Xylenes, Aerobic Low

BIOSCREEN Natural Attenuation Decision Support System

NESCO — *Version 1.3*

Souther's Grocery
UST Site 08650
Xylenes, Aerobic Low

Data Input Instructions:

115 ↑ or 0.02 — 1. Enter value directly....or 2. Calculate by filling in grey cells below. (To restore formulas, hit button below).

Variable* → Data used directly in model.

20 → Value calculated by model. (Don't enter any data).

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	17.6	*(ft/yr)*
or		↑ or	
Hydraulic Conductivity	*K*	7.3E-04	*(cm/sec)*
Hydraulic Gradient	*I*	0.007	*(ft/ft)*
Porosity	*n*	0.3	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	17.0	*(ft)*
Transverse Dispersivity*	*alpha y*	1.7	*(ft)*
Vertical Dispersivity*	*alpha z*	0.0	*(ft)*
or		↑ or	
Estimated Plume Length	*Lp*	450	*(ft)*

3. ADSORPTION

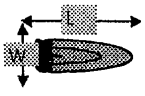
Retardation Factor*	*R*	4.5	*(-)*
or		↑ or	
Soil Bulk Density	*rho*	1.65	*(kg/l)*
Partition Coefficient	*Koc*	639	*(L/kg)*
FractionOrganicCarbon	*foc*	0.001	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	3.6E+1	*(per yr)*
or		↑ or	
Solute Half-Life	*t-half*	0.019	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	1.26	*(mg/L)*
Delta Nitrate*	*NO3*	5.11	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	0.24	*(mg/L)*
Delta Sulfate*	*SO4*	2.74	*(mg/L)*
Observed Methane*	*CH4*		*(mg/L)*

5. GENERAL

Modeled Area Length*	600	*(ft)*
Modeled Area Width*	250	*(ft)*
Simulation Time*	40	*(yr)*



6. SOURCE DATA

Source Thickness in Sat.Zone* 10 *(ft)*

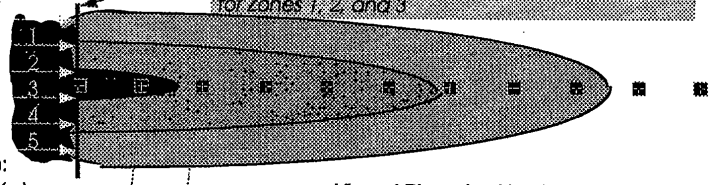
Source Zones:

Width* (ft)	Conc. (mg/L)*
25	
50	2.7
50	278
50	2.7
25	0

Source Decay (see Help):

SourceHalflife*	>1000	*(yr)*
Soluble Mass	↑ or	
In NAPL, Soil	50000	*(Kg)*

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Dist. from Source (ft)	0	60	120	180	240	300	360	420	480	540	600
Concentration (mg/L)											

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — **View Output**

RUN ARRAY — **View Output**

Help — Recalculate This Sheet

Paste Example Dataset

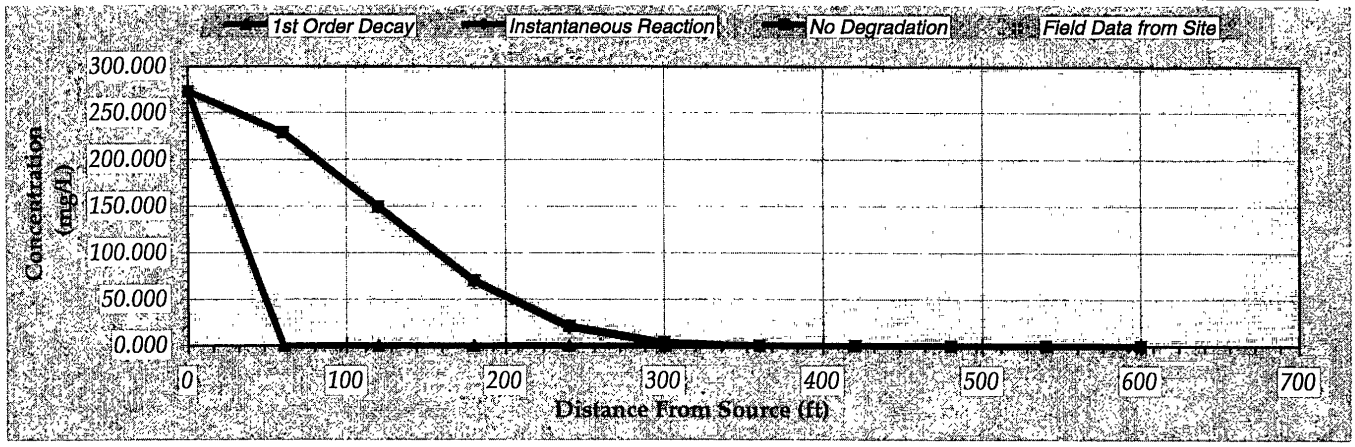
Restore Formulas for Vs, Dispersivities, R, lambda, other

NESCO Job #21-1768
Souther's Grocery
Xylenes, Aerobic Low, SSTL

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

Distance from Source (ft)

TYPE OF MODEL	0	60	120	180	240	300	360	420	480	540	600
No Degradation	273.337	229.336	149.741	70.900	21.363	3.770	0.370	0.020	0.001	0.000	0.000
1st Order Decay	273.337	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	273.171	229.057	149.083	69.613	19.575	1.779	0.000	0.000	0.000	0.000	0.000
Field Data from Site											



Calculate Animation

Time:

40 Years

Return to Input

Recalculate This Sheet

NESCO Job #21-1768
Souther's Grocery
Xylenes, Aerobic Low, SSTL

BIOSCREEN Natural Attenuation Decision Support System

NESCO *Version 1.3*

Souther's Grocery
UST Site 08650
Naphthalene, Aerobic Low

Data Input Instructions:

115 ⇒ 1. Enter value directly....or
or 2. Calculate by filling in grey cells below. (To restore formulas, hit button below).
0.02

Variable* ⇒ Data used directly in model.
20 ⇒ Value calculated by model. (Don't enter any data).

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	17.6	*(ft/yr)*
or		or	
Hydraulic Conductivity	*K*	7.3E-04	*(cm/sec)*
Hydraulic Gradient	*i*	0.007	*(ft/ft)*
Porosity	*n*	0.3	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	17.0	*(ft)*
Transverse Dispersivity*	*alpha y*	1.7	*(ft)*
Vertical Dispersivity*	*alpha z*	0.0	*(ft)*
or		or	
Estimated Plume Length	*Lp*	450	*(ft)*

3. ADSORPTION

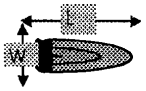
Retardation Factor*	*R*	9.5	*(-)*
or		or	
Soil Bulk Density	*rho*	1.65	*(kg/l)*
Partition Coefficient	*Koc*	1543	*(L/kg)*
FractionOrganicCarbon	*foc*	0.001	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	6.9E+2	*(per yr)*
or		or	
Solute Half-Life	*t-half*	0.001	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	1.26	*(mg/L)*
Delta Nitrate*	*NO3*	5.11	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	0.24	*(mg/L)*
Delta Sulfate*	*SO4*	2.74	*(mg/L)*
Observed Methane*	*CH4*		*(mg/L)*

5. GENERAL

Modeled Area Length*	600	*(ft)*
Modeled Area Width*	250	*(ft)*
Simulation Time*	40	*(yr)*



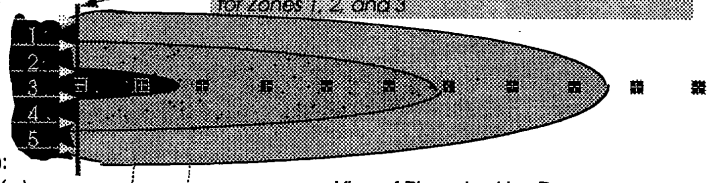
6. SOURCE DATA

Source Thickness in Sat.Zone* 10 *(ft)*

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3

Source Zones:

Width* (ft)	Conc. (mg/L)*
25	
50	0.02
50	2
50	0.02
25	0



View of Plume Looking Down

Source Decay (see Help):

SourceHalflife*	>1000	*(yr)*
Soluble Mass	or	
In NAPL, Soil	50000	*(Kg)*

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Dist. from Source (ft)	0	60	120	180	240	300	360	420	480	540	600
Concentration (mg/L)											

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — **View Output**

RUN ARRAY — **View Output**

Help — Recalculate This Sheet

Paste Example Dataset

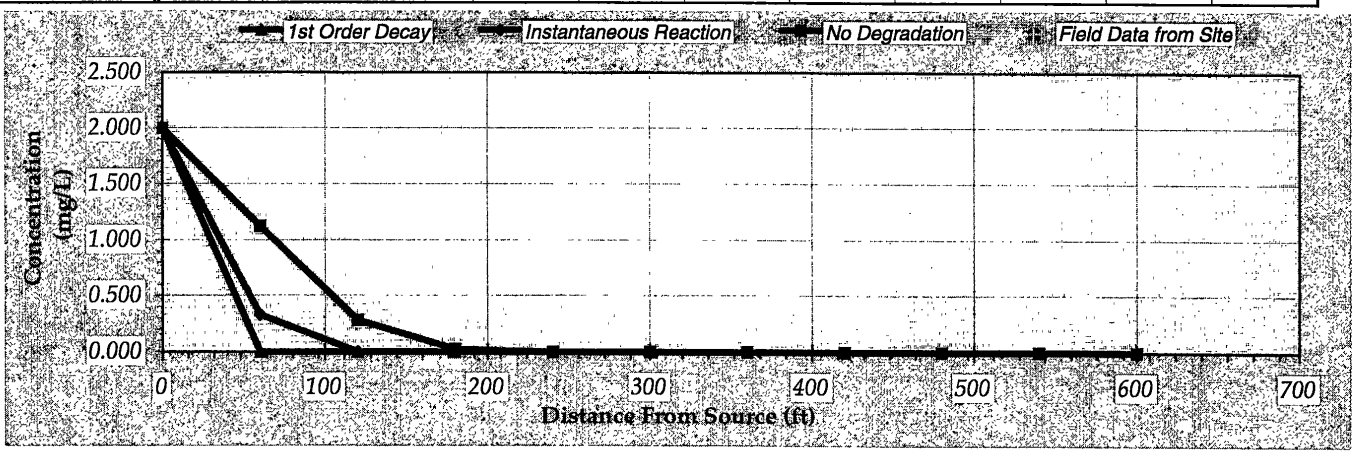
Restore Formulas for Vs, Dispersivities, R, lambda, other

NESCO Job #21-1768
Souther's Grocery
Naphthalene, Aerobic Low

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

Distance from Source (ft)

TYPE OF MODEL	0	60	120	180	240	300	360	420	480	540	600
No Degradation	2.000	1.124	0.284	0.024	0.001	0.000	0.000	0.000	0.000	0.000	0.000
1st Order Decay	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	1.999	0.330	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Field Data from Site											



Calculate Animation

Time:

40 Years

Return to Input

Recalculate This Sheet

NESCO Job #21-1768
Souther's Grocery
Naphthalene, Aerobic Low

BIOSCREEN Natural Attenuation Decision Support System

NESCO — *Version 1.3*

Souther's Grocery
UST Site 17872
Naphthalene, Aerobic Low

Data Input Instructions:

115 → 1. *Enter value directly....or*
↑ or
0.02 → 2. *Calculate by filling in grey cells below. (To restore formulas, hit button below).*

Variable* → *Data used directly in model.*
20 → *Value calculated by model. (Don't enter any data).*

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	17.6	*(ft/yr)*
or		↑ or	
Hydraulic Conductivity	*K*	7.3E-04	*(cm/sec)*
Hydraulic Gradient	*i*	0.007	*(ft/ft)*
Porosity	*n*	0.3	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	17.0	*(ft)*
Transverse Dispersivity*	*alpha y*	1.7	*(ft)*
Vertical Dispersivity*	*alpha z*	0.0	*(ft)*
or		↑ or	
Estimated Plume Length	*Lp*	450	*(ft)*

3. ADSORPTION

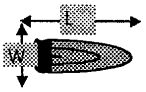
Retardation Factor*	*R*	9.5	*(-)*
or		↑ or	
Soil Bulk Density	*rho*	1.65	*(kg/l)*
Partition Coefficient	*Koc*	1543	*(L/kg)*
FractionOrganicCarbon	*foc*	0.001	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	6.9E+2	*(per yr)*
or		↑ or	
Solute Half-Life	*t-half*	0.001	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	1.26	*(mg/L)*
Delta Nitrate*	*NO3*	5.11	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	0.24	*(mg/L)*
Delta Sulfate*	*SO4*	2.74	*(mg/L)*
Observed Methane*	*CH4*		*(mg/L)*

5. GENERAL

Modeled Area Length*	600	*(ft)*
Modeled Area Width*	250	*(ft)*
Simulation Time*	40	*(yr)*



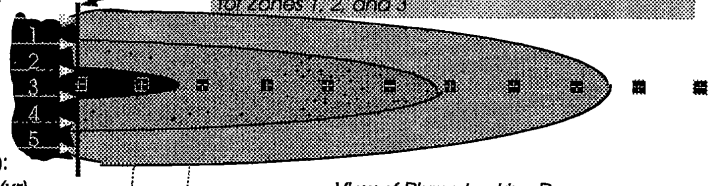
6. SOURCE DATA

Source Thickness in Sat.Zone* 10 *(ft)*

Vertical Plane Source: Look at Plume Cross-Section and input Concentrations & Widths for Zones 1, 2, and 3

Source Zones:

Width* (ft)	Conc. (mg/L)*
25	
50	0.02
50	2
50	0.02
25	0



View of Plume Looking Down

Source Decay (see Help):

SourceHalflife*	Infinite	*(yr)*
Soluble Mass	↑ or	
In NAPL, Soil	infinite	*(Kg)*

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)											
Dist. from Source (ft)	0	60	120	180	240	300	360	420	480	540	600

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — **View Output**

RUN ARRAY — **View Output**

Help — Recalculate This Sheet

Paste Example Dataset

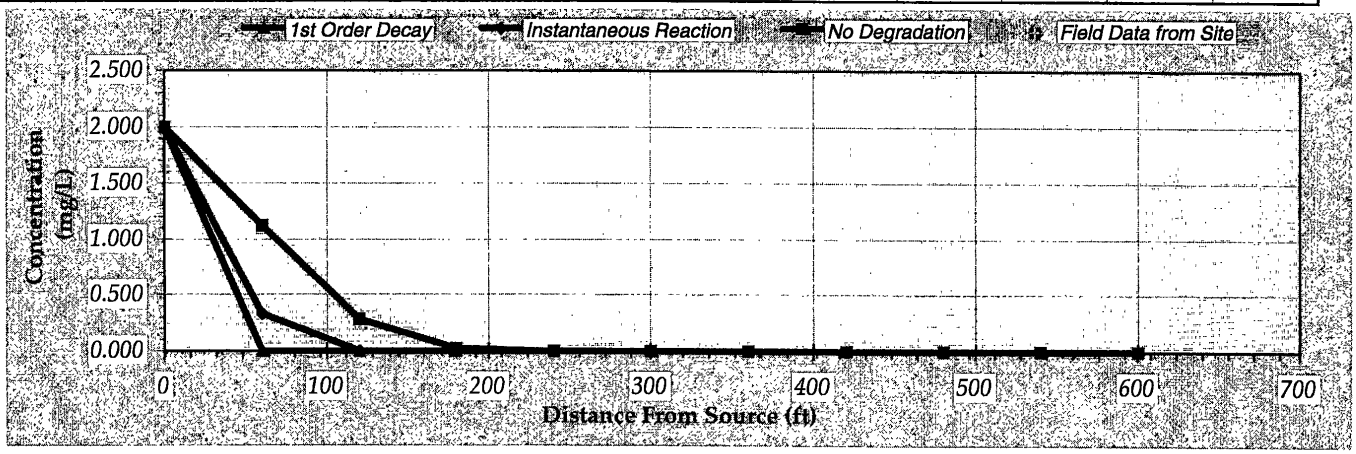
Restore Formulas for Vs, Dispersivities, R, lambda, other

NESCO Job #21-1768
Souther's Grocery
Naphthalene, Aerobic Low, SSTL

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

Distance from Source (ft)

TYPE OF MODEL	0	60	120	180	240	300	360	420	480	540	600
No Degradation	2.000	1.124	0.284	0.024	0.001	0.000	0.000	0.000	0.000	0.000	0.000
1st Order Decay	2.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	2.000	0.330	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Field Data from Site											



Calculate Animation

Time:

40 Years

Return to Input

Recalculate This Sheet

NESCO Job #21-1768
Souther's Grocery
Naphthalene, Aerobic Low, SSTL

BIOSCREEN Natural Attenuation Decision Support System

NESCO

MTBE SSTL (aerobic - low)

Souther's Grocery
GWPD Site No. 08650
Run Name

Data Input Instructions:

115 → *1. Enter value directly....or*
↑ or
0.02 → *2. Calculate by filling in grey cells below. (To restore formulas, hit button below).*

Variable* → *Data used directly in model.*
→ *Value calculated by model. (Don't enter any data).*

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	17.6	*(ft/yr)*
or		↑ or	
Hydraulic Conductivity	*K*	7.28E-04	*(cm/sec)*
Hydraulic Gradient	*I*	0.007	*(ft/ft)*
Porosity	*n*	0.3	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	17.0	*(ft)*
Transverse Dispersivity*	*alpha y*	1.7	*(ft)*
Vertical Dispersivity*	*alpha z*	0.0	*(ft)*
or		↑ or	
Estimated Plume Length	*Lp*	450	*(ft)*

3. ADSORPTION

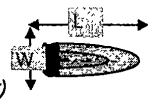
Retardation Factor*	*R*	1.0	*(-)*
or		↑ or	
Soil Bulk Density	*rho*	1.65	*(kg/l)*
Partition Coefficient	*Koc*	0	*(L/kg)*
FractionOrganicCarbon	*foc*	1.00E-03	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	1.4E+0	*(per yr)*
or		↑ or	
Solute Half-Life	*t-half*	0.493	*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*	1.26	*(mg/L)*
Delta Nitrate*	*NO3*	5.11	*(mg/L)*
Observed Ferrous Iron*	*Fe2+*	0.24	*(mg/L)*
Delta Sulfate*	*SO4*	2.74	*(mg/L)*
Observed Methane*	*CH4*		*(mg/L)*

5. GENERAL

Modeled Area Length*	600	*(ft)*
Modeled Area Width*	250	*(ft)*
Simulation Time*	40	*(yr)*



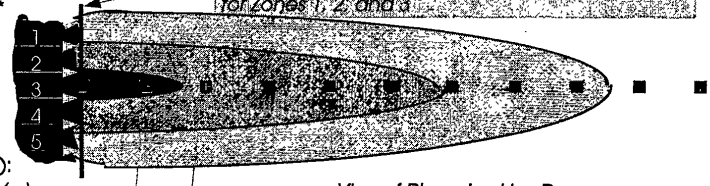
6. SOURCE DATA

Source Thickness in Sat.Zone* 10 *(ft)*

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths for Zones 1, 2, and 3

Source Zones:

Width* (ft)	Conc. (mg/L)*
25	0.004
50	0.04
50	1.850
50	0.01
25	0.0001



View of Plume Looking Down

Source Decay (see Help):

SourceHalflife*		*(yr)*
Soluble Mass	↑ or	
In NAPL, Soil	infinite	*(Kg)*

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)											
Dist. from Source (ft)	0	60	120	180	240	300	360	420	480	540	600

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — **View Output**

RUN ARRAY — **View Output**

Help — Recalculate This Sheet

Paste Example Dataset

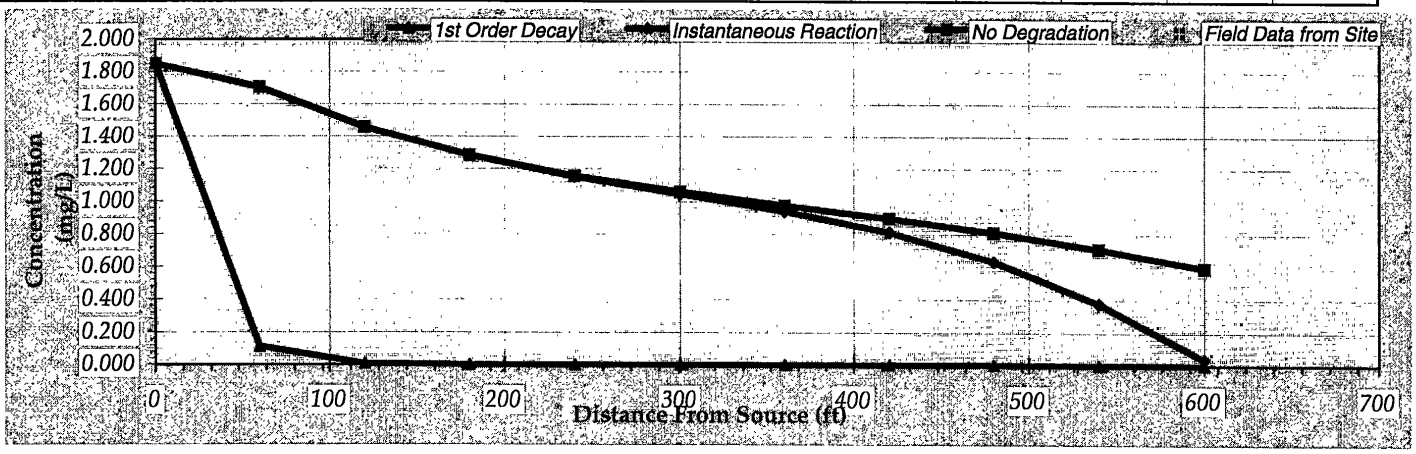
Restore Formulas for Vs, Dispersivities, R, lambda, other

NESCO Job #21-1768
Souther's Grocery
MTBE, Aerobic Low, SSTL

DISSOLVED HYDROCARBON CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

Distance from Source (ft)

TYPE OF MODEL	0	60	120	180	240	300	360	420	480	540	600
No Degradation	1.850	1.705	1.458	1.283	1.157	1.059	0.975	0.896	0.811	0.712	0.595
1st Order Decay	1.850	0.113	0.006	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Inst. Reaction	1.850	1.705	1.458	1.283	1.153	1.046	0.940	0.811	0.634	0.380	0.038
Field Data from Site											



Calculate Animation

Time:

40 Years

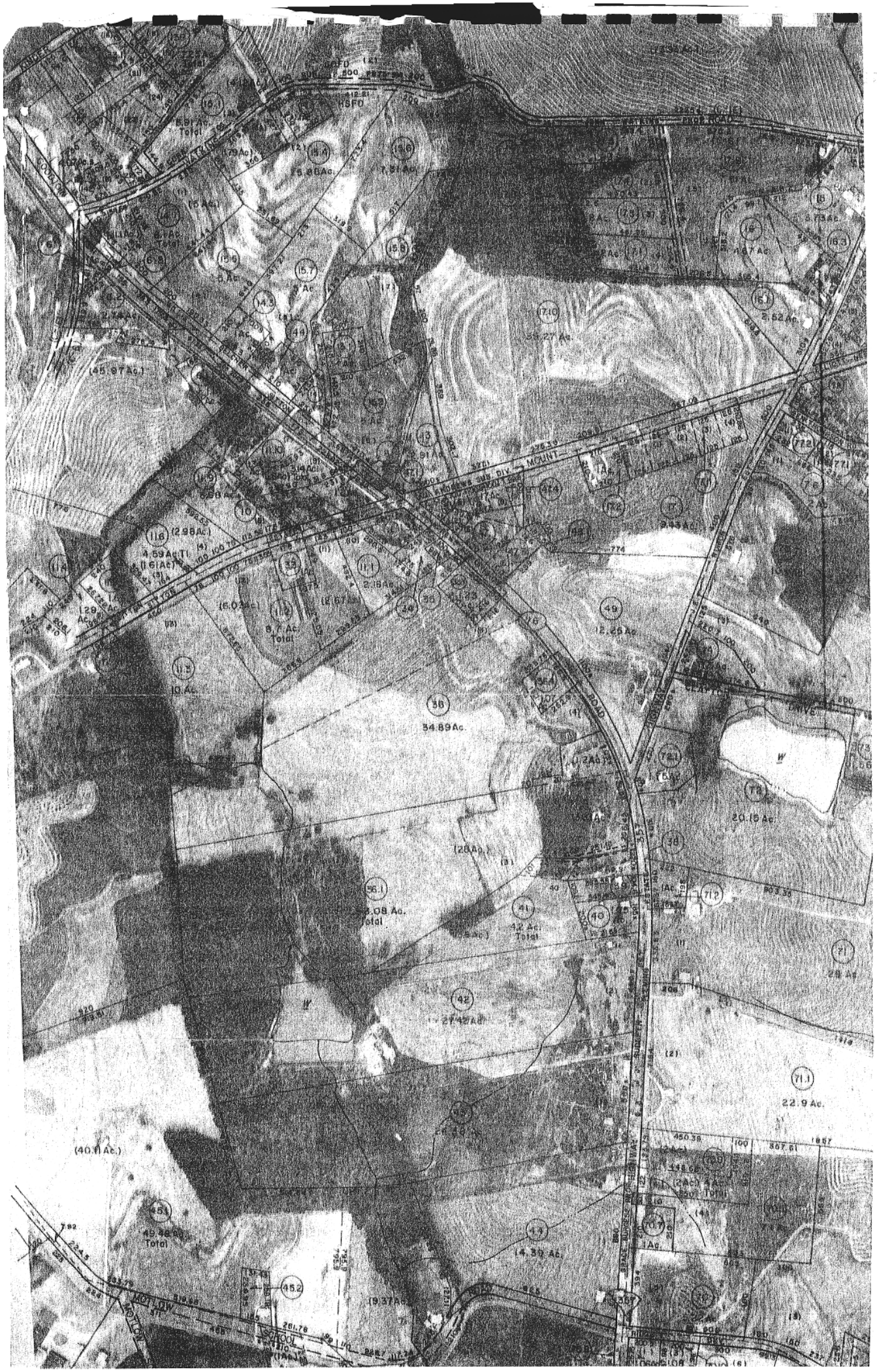
Return to Input

Recalculate This Sheet

NESCO Job #21-1768
Souther's Grocery
MTBE, Aerobic Low, SSTL

APPENDIX F

Spartanburg County Tax Map


MOUNT
ROAD
34.89Ac.
20.15 Ac.
22.9 Ac.
(40.1 Ac.)
(4.39 Ac.)
(19.37Ac.)
12.25 Ac.
2.18Ac.
4.59Ac.(T)
(1.6Ac.)
(2.98Ac.)
10 Ac.
(28Ac.)
3.08 Ac.
Total
4.2 Ac.
Total
27.42Ac.
45.97Ac.)
5.91 Ac.
Total
7.51 Ac.
15.8Ac.
35.27 Ac.
2.52 Ac.
2.73Ac.
4.67 Ac.
2.93 Ac.
8.7 Ac.
Total
45.98 Ac.
Total
MOT LOW

Consultech Environmental, Inc.
Tier II Plan

UST Permit # : 08650 County: Spartanburg Facility Name: George Souther's Grocery

Facility Address: Goodjoin Rd & Mt. Lebanon Rd, Campobello, South Carolina 29322

Responsible Party: George Souther Address: 280 Goodjoin Rd, Campobello, South Carolina 29322

No. USTs: Six Abandoned 12/20/91 (date) Replaced (date)

RECEIVED

MAR 01 2005

UNDERGROUND STORAGE TANK PROGRAM

Current use of facility/property: Convenience Store

Current property owner name: George Souther

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.

Soil samples collected every 5 feet to 5 feet below groundwater or auger refusal. 50 grams of soil will be placed in sealed ziplock bags, set for 15 minutes, and scanned with a calibrated PID. A groundwater sample will be scanned in the same manner. A boring log will be filled out for each soil boring.

Permanent Monitoring Wells (estimate number and total completed depth)

# of shallow wells: 6 Total depth: 150 feet

# of deep wells: 1-100 ft & 6-75 ft Total depth: 550 feet (if necessary)

Comments, if warranted: Twenty-Seven existing wells no private wells within 500 ft

Analyses

List the analytical parameters (e.g., BTEX, MTBE) and estimated number.
Groundwater - BTEX + NAPTH + MTBE 40, 1,2 DCA 40 PAH 0, Lead 40, EDB 40, 8-Oxygenates 40, Nitrate 13, Sulfate 13, Ferrous Iron 13, & Methane 13

Soil - BTEX + NAPTH 0, PAH 0, TPH (DRO) 0, TPH (GRO) 0, Grain size/hydrometer 0, TOC 0

Implementation Schedule

Start up date: 03/28/05 Completion date: 05/28/05

Report submittal date: 05/28/05

UST Permit # : 08650 Facility Name: George Souther's Grocery

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	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 (check on and provide explanation for choice)

Pump test: _____ Slug tests: 0

Small Volume Disposal Type and Method

Soil: 50 Drums of soil cuttings generated during the installation of borings and monitoring wells to be disposed of at an authorized treatment facility.-

Purge water: 8 Drums of monitoring well development and purge water to be treated with a granular activated carbon unit and disposed of on-site.

Additional comments: PAH Analysis will not be sampled since no PAHs are present. Nitrate, sulfate, dissolved iron, and methane will only be sampled from new wells. No slug tests or groundwater modeling since conducted in the Tier II In 2002.

Screening will be conducted around MW-8 for shallow delineation and deep screening will be conducted verify deep horizontal delineation. In addition, two surveys will be required since the area exceeds 250,000 square feet.

D H E C

PROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

ASSESSMENT COMPONENT COST AGREEMENT
SCDHEC
Underground Storage Tank Program
State Underground Petroleum Environmental Response Bank Account
Consultech Environmental SB-26861-10/26/04-EMW

Facility Name **George Souther's Grocery**

UST Permit # **08650** Cost Agreement # _____

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1. Plan*				
A. Plan Preparation	1	x	$50.00	$50.00
B. Tax Map	1	x	$50.00	$50.00
2. Receptor Survey *	1	x	$50.00	$50.00
3. Comprehensive Survey	2	x	$600.00	$1,200.00
4. Mob/Demob				
A. Equipment	2	x	$125.00	$250.00
B. Personnel	4	each x	$30.00	$120.00
C. Adverse Train Vehicle	0	x	$125.00	$0.00
5. Soil Borings (hand auger)*		feet x	$0.00	$0.00
6. Field Screening-standard	1200	feet x	$10.00	$12,000.00
alternative		feet x	$0.00	$0.00
fractured rock		feet x	$0.00	$0.00
7. Soil Leachability Model		each x	$50.00	$0.00
8. Abandonment*		feet x	$4.00	$0.00
9. Well Installation*				
A. Water Table (hand auger)		feet x	$0.00	$0.00
B. Water Table (drilled)	150	feet x	$25.00	$3,750.00
C. Telescoping	550	feet x	$30.00	$16,500.00
D. Rock Drilling	0	feet x	$35.00	$0.00
E. 2" Core Drilling		feet x	$0.00	$0.00
F. 4" Core Drilling		feet x	$1.00	$0.00
G. Multi sampling ports/screen intervals		feet x	$23.00	$0.00
10. Groundwater Sample Collection				
A.Groundwater	40	samples x	$30.00	$1,200.00
B. Air Vapor		samples x	$15.00	$0.00
C. Water Supply	0	samples x	$15.00	$0.00
D. Groundwater No Purge		samples x	$15.00	$0.00
E. Gauge Well Only	27	samples x	$15.00	$405.00
F. Sample below product		samples x	$15.00	$0.00
E. Passive Diffusion Bag		per well x	$0.00	$0.00
11. Analyses-Groundwater (See Analytical Methodology for analyses)				
A. BTEX+Napth.+MTBE	40	samples x	$31.50	$1,260.00
B. Rush BTEX analysis	10	samples x	$63.00	$630.00
D. PAH's	0	samples x	$52.00	$0.00
E. Lead	40	samples x	$6.50	$260.00
F. EDB	40	samples x	$30.50	$1,220.00
G. 8 RCRA Metals		samples x	$52.00	$0.00
H.TPH (1664)		samples x	$21.00	$0.00
I. pH		samples x	$8.50	$0.00
J. BOD		samples x	$25.50	$0.00
K. Nitrate	13	samples x	$16.00	$208.00
L. Sulfate	13	samples x	$13.50	$175.50
M. Ferrous Iron	13	samples x	$8.50	$110.50
N. Methane	13	samples x	$37.00	$481.00
O. Filtered Lead		samples x	$9.00	$0.00
P. 8 Oxygenates	40	samples x	$63.00	$2,520.00
1,2-DCA	40	samples x	$0.00	$0.00

11. Analyses-Soil				
Q. BTEX + Napth.	0	samples x	$31.50	$0.00
R. PAH's		samples x	$52.00	$0.00
S. 8 RCRA Metals		samples x	$52.00	$0.00
U. TPH (3550B/8015B)		samples x	$34.00	$0.00
V. TPH (5030B/8015B)		samples x	$38.00	$0.00
W. Grain size/hydrometer	0	samples x	$50.00	$0.00
X. Total Organic Carbon		samples x	$19.00	$0.00
11. Analyses-Air				
Y. BTEX + Napth.		samples x	$100.00	$0.00
11. Z. Hydrocarbon Fuel Identification		samples x	$34.00	$0.00
12. A. Pumping Test*		hours x	$30.00	$0.00
B. Slug Test*	0	tests x	$30.00	$0.00
C. Fractured Rock*		tests x	$0.00	$0.00
13. Free Product Recovery Rate Test*	5	tests x	$30.00	$150.00
14. A. Mathematical Model		each x	$50.00	$0.00
B. Computer Model		each x	$150.00	$0.00
15. A. Tier 1 Risk Evaluation		x	$0.00	$0.00
B. Tier II Risk Evaluation	0	x	$150.00	$0.00
16. Subsequent Survey*		x	$100.00	$0.00
17. Disposal*				
A. Wastewater				
1. Purging/Sampling	8	drums x	$90.00	$720.00
2. Pumping Test/EFR		gallons x	$0.20	$0.00
B. Free Product		drums x	$0.00	$0.00
C. Soil (Treatment/Disposal)	50	drum x	$50.00	$2,500.00
		tons x	$0.00	$0.00
18. Miscellaneous (attach receipts)				
Additional Copies of Report		each x	$25.00	$0.00
Repair 2x2 monitoring well pad		each x	$20.00	$0.00
Repair 4x4 monitoring well pad		each x	$23.00	$0.00
Replace well vault		each x	$28.00	$0.00
Replace well cover and gasket		each x	$0.00	$0.00
Replace well cover bolts		each x	$0.00	$0.00
Replace locking well cap & lock		each x	$7.00	$0.00
23. EFR				
A. 8-hour Event*		each x		
B. Additional Hour		per hour x		
C. Off-gas treatment		per hour x		
24. Granulated Activated Carbon (GAC) filter system installation & service:				
A. New GAC System Installation*		each x		
B. Refurbished GAC Sys. Install*		each x		
C. Filter replacement/removal*		each x		
D. GAC System removal, cleaning, & refurbishmen		each x		
E. GAC System housing		each x		
F. In-line particulate filter		each x		
G. Additional piping & fittings		feet x		
19. Report/Project Management and Coordination	3%	x	$45,810.00	$1,374.30
25. TOTAL				$47,184.30

*The appropriate mobilization cost can be added to complete these tasks, as necessary

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

NOV 2 8 2007

RONNY LOWDER
EMERALD INC
PO BOX 3050
SUMTER SC 29151

Re: **Notice to Proceed-Groundwater Sampling**
Bid # SB-27496-03/08/05; PO# 574989

Dear Mr. Lowder:

Based on the award of the referenced bid package, enclosed are the information packets to conduct two (2) groundwater-sampling events. The packets contain all necessary information for work to begin. The facility has been assigned an individual Cost Agreement (CA) number as listed below. Please reference the CA number and Purchase Order #574989 on the appropriate invoice submitted for payment against the facility.

UST Permit #	Facility	County	# wells	UST Project Manager	Sampling Due Date	Parameters-Groundwater	PACE CA#	EMERALD CA#
18621	Hermann Warehouse	Charleston	7	J. Padgett	12/14/07	BTEXMN, DCA, Oxygenates, & Total lead	31132 31130	31131 31129
08650	George Southers	Spartanburg	54	S. Block	12/14/0	BTEXMN, DCA, EDB & Oxygenates	31083	31084

Emerald, Inc. will perform services at the sites on behalf of the site's responsible party (RP); however, payment will be made from the SUPERB Account. The site's RP has no obligation for payment for this scope of work. Please coordinate access to the facility with the property owner. Contact information has been provided in the information packet. The Bureau grants pre-approval for transportation of drums of groundwater from the referenced sites to a permitted treatment facility. The contaminated groundwater must be properly stored in labeled 55-gallon drums or equivalent containers. The contaminated groundwater must be accepted by the approved treatment facility. There can be no spillage or leakage in transport. A copy of the disposal manifest from the receiving facility that clearly designates the quantity received must be included with the final report. **Please note, the final report is due within 3 weeks from the date the site is sampled. If the site is not sampled by the specified due date or the report is not received in the specified time period, a late fee may be imposed.**

Please contact me with the sampling schedule before commencing work at these facilities. If you have any questions or need further assistance, please contact me at (803) 896-6397 or thomadl@dhec.sc.gov.

Sincerely,

Debra L. Thoma

Debra L. Thoma, Hydrogeologist
Northeastern SC Corrective Action Section
Assessment & Corrective Action Division
Underground Storage Tank Program
Bureau of Land & Waste Management

enc: Information Packets
Approved Cost Agreements

cc: Kevin Herring, PACE Analytical, 9800 Kincey Ave. Ste. 100, Huntersville, NC, 28078 (w/ Approved CAs)
Technical Files (w/o. enc.)

UST PROGRAM DOCKETING # Ttel

Approved Cost Agreement 31083

Facility: 08650 GEORGE SOUTHER'S GROCERY
PETRUSLB
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
11 ANALYSES						
	GW GROUNDWATER	A	BTEX+NAPTH+MTBE	54.0000	23.00	1,242.00
		F	EDB	54.0000	27.00	1,458.00
		P	8 OXYGENATES	54.0000	70.00	3,780.00
				Total Amount		6,480.00

Approved Cost Agreement 31084

Facility: 08650 GEORGE SOUTHER'S GROCERY
PETRUSLB
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB						
		B	PERSONNEL	3.0000	114.40	343.20
10 SAMPLE COLLECTION						
		A	GROUND WATER	8.0000	10.00	80.00
		D	GROUNDWATER NO-PURGE	46.0000	10.00	460.00
17 DISPOSAL						
		A2	WASTEWATER - PUMPING TEST	150.0000	0.50	75.00
				Total Amount		958.20

Midlands
Environmental
Consultants, Inc.

April 2, 2008

RECEIVED
APR 04 2008
UNDERGROUND STORAGE
TANK PROGRAM

Ms. Susan Block, P.G., Hydrogeologist
Northeastern SC Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Subject: Aggressive Fluid Vapor Recovery Report
George Souther's Grocery
Campobello, South Carolina
SCDHEC Site ID # 08650; CA #31550
MECI Project Number 07-1511D

Dear Ms. Block,

Midlands Environmental Consultants, Inc. (MECI) is pleased to submit the attached Aggressive Fluid Vapor Recovery Report for the referenced site. This describes the aggressive fluid vapor recovery activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines.

AGGRESSIVE FLUID VAPOR RECOVERY

MECI personnel conducted an Aggressive Fluid Vapor Recovery (AFVR) event at George Souther's Grocery on March 20, 2008. The event was conducted on monitoring wells RW-1 to remove free phase petroleum product and MW-5 to reduce dissolved CoC concentrations. Free phase petroleum product was detected in RW-1 at a thickness of 0.05 feet prior to the AFVR event. Free phase petroleum product was not detected in monitoring well MW-5 prior to the AFVR event. The event was conducted continuously for eight hours. The event was conducted by MECI personnel utilizing a MECI vacuum extraction unit. Free phase petroleum product was not detected in the wells immediately following the AFVR event.

MECI treated the off gas produced during the AFVR event using an activated carbon filter system. Calculated total petroleum hydrocarbons removed from the wells were 14.66 pounds or approximately 2.53 equivalent gallons. The average rate of removal for the hydrocarbons was calculated to be 1.83 pounds per hour. Concentrations of off gas produced during the event were recorded from 829 parts per million by volume (PPM) to 1,522 PPM. Measurements were obtained from vapors prior to entering off gas treatment. Vacuum readings were recorded at a range from 12.0 to 14.0 inches of mercury during the event. A complete compilation of measurements recorded is presented in attached Table 1D.

UST PROGRAM
DOCKETING # 107

Post Office Box 854, Lexington SC 29071 • 235-B Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

Differential pressures and groundwater levels were measured and recorded for selected site monitoring wells at regular intervals. This data is summarized in the attached Table 2D. Monitoring well locations are depicted on attached Figure 1.

A total of 250 gallons of liquids were removed from RW-1 and MW-5 during this event. Free phase petroleum product was not observed in the holding tank at the end of the event. The fluids produced were transported to Crandall Corporation of Lexington, S.C. for disposal. A disposal manifest for these fluids is attached at the end of this report.

QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assignment are consistent with those normally employed in enhanced fluid recovery events and waste management projects of this type. Contents of this report are intended for the use by MECI and the South Carolina Department of Health and Environmental Control, under mutually agreed upon terms and conditions. If other parties wish to rely on this report please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

Midlands Environmental appreciates the opportunity to offer our professional environmental related services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.

Brendon P. Kelly
Staff Scientist

William C. McClary P.G.
Senior Geologist

Attachments:

TABLE 1D
AFVR MONITORING DATA
GEORGE SOUTHER'S GROCERY
CAMPOBELLO, SOUTH CAROLINA
MECI PROJECT NUMBER 07-1511D
SCDHEC SITE ID NUMBER 08650

Extraction Well	Date	Time (hh:mm)	Differential Time (hr)	Extraction Well Head Vacuum (in. Hg)	Off Gas Measurements: Concentration (PPM)	Offgas Velocity Ft/Min	Flow Rate CFM	Removal Rate Lbs/Hr	Interval Removal Lbs
RW-1 MW-5	03/20/08	6:30	0.50	12.0	1,522	1600	144.00	2.63	1.32
	03/20/08	7:00	0.50	12.0	587	1690	152.10	1.07	0.54
	03/20/08	7:30	0.50	14.0	1,124	1480	133.20	1.80	0.90
	03/20/08	8:00	0.50	14.0	1,137	1560	140.40	1.92	0.96
	03/20/08	8:30	0.50	14.0	1,128	1590	143.10	1.94	0.97
	03/20/08	9:00	0.50	14.0	1,118	1440	129.60	1.74	0.87
	03/20/08	9:30	0.50	14.0	1,109	1470	132.30	1.76	0.88
	03/20/08	10:00	0.50	13.0	1,093	1790	161.10	2.11	1.06
	03/20/08	10:30	0.50	13.0	1,090	1530	137.70	1.80	0.90
	03/20/08	11:00	0.50	13.0	1,143	1360	122.40	1.68	0.84
	03/20/08	11:30	0.50	13.0	1,103	1480	133.20	1.76	0.88
	03/20/08	12:00	0.50	13.0	1,065	1510	135.90	1.74	0.87
	03/20/08	12:30	0.50	14.0	990	1370	123.30	1.46	0.73
	03/20/08	13:00	0.50	13.0	968	1580	142.20	1.65	0.83
	03/20/08	13:30	0.50	13.0	956	1390	125.10	1.44	0.72
	03/20/08	14:00	0.50	13.0	935	1450	130.50	1.46	0.73
	03/20/08	14:30	0.50	13.0	829	1510	135.90	1.35	0.68
									TOTAL 14.66

Well Data: Well No.	Diameter (in)	Total Depth (ft)	Pre AFVR Event: Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Post AFVR Event: Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Corrected Depth to Water Change (ft)
RW-1	4"	30	19.03	19.08	0.05	***	21.83	***	2.79
MW-5	2"	19.5	***	20.43	***	***	20.42	***	-0.01

Vacuum Truck Information		Well ID	Stinger Depth
Subcontrator:	MECI	RW-1	19.00
Truck Operator:	B. Kelly	MW-5	20.00
Stack I.D. (feet)	0.33 feet		
Corrected depth to water before AFVR event in RW-1=			19.04

Recovery / Disposal Information		
Hydro carbons Removed (vapor):	14.66	Pounds
Hydro carbons Removed (liquid):	0	Gallons
Total Hydrocarbons Removed:	2.53	Equivalent Gallons
Molecular Weight Utilized:	75	g / mole
Disposal Facility	Crandall Corporation	
Total Liquids Removed:	250	Gallons

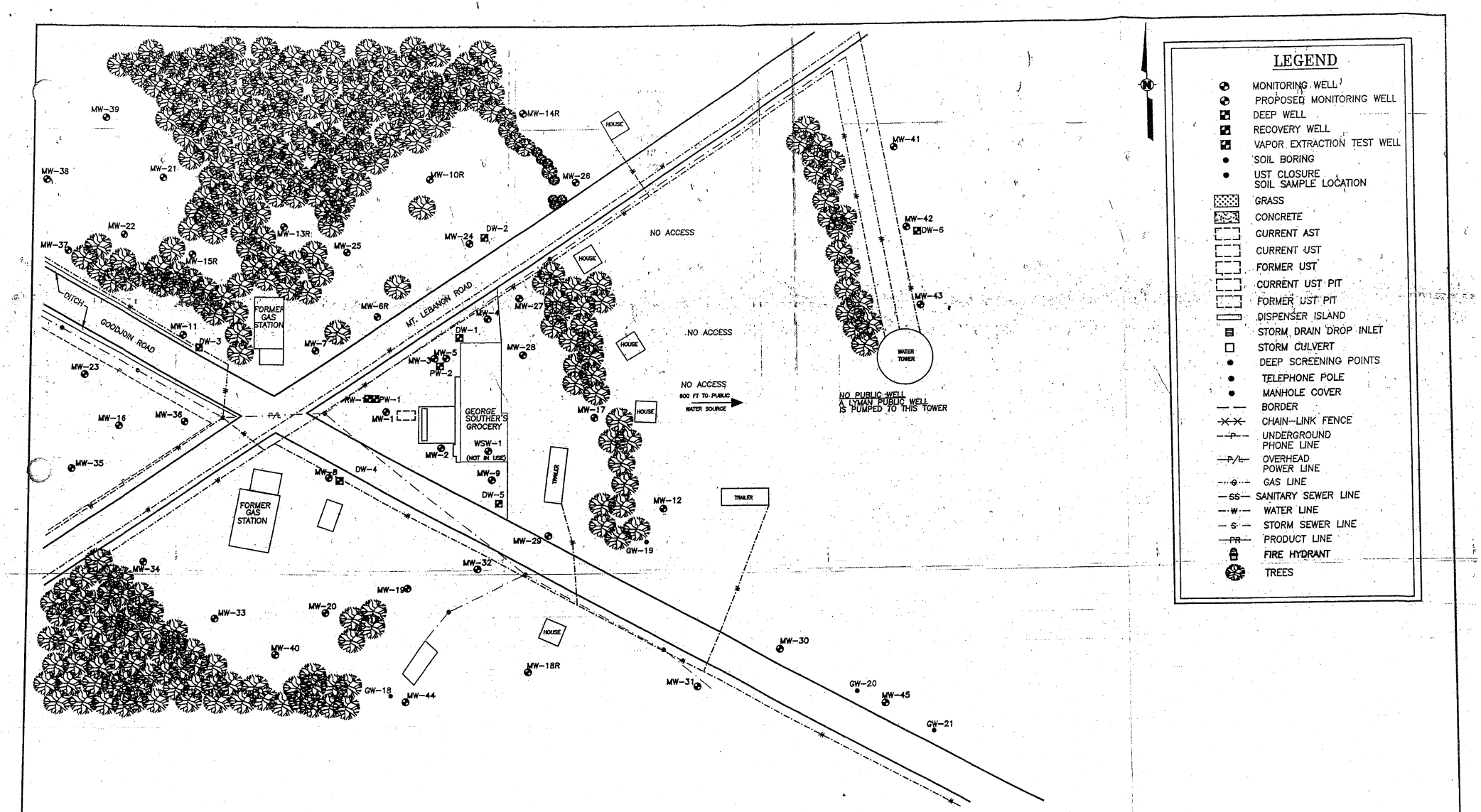
TABLE 1D
DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
GEORGE SOUTHER'S GROCERY
CAMPOBELLO, SOUTH CAROLINA
MECI PROJECT NUMBER 07-1511D
SCDHEC SITE ID NUMBER 08650

DIFFERENTIAL PRESSURE DATA

		Well Designation:		
		MW-1	**MW-3**	**MW-7**
Nearest Extraction Well:		RW-1	MW-5	RW-1
Approximate Distance:		24 ft	12 ft.	82 ft
Time	**Elapsed Time**	**Differential Pressure Readings (inches of water)**		
6:30	0.0	0	0	0
7:00	0.5	0	0	0
7:30	1.0	0	0	0
8:00	1.5	0	0	0
8:30	2.0	0	0	0
9:00	2.5	0	0	0
9:30	3.0	0	0	0
10:00	3.5	0	0	0
10:30	4.0	0	0	0
11:00	4.5	0	0	0
11:30	5.0	0	0	0
12:00	5.5	0	0	0
12:30	6.0	0	0	0
13:00	6.5	0	0	0
13:30	7.0	0	0	0
14:00	7.5	0	0	0
14:30	8.0	0	0	0
Maximum Change:		**0**	**0**	**0**

GROUNDWATER DRAWDOWN DATA

		Well Designation:		
		MW-1	**MW-3**	**MW-7**
Nearest Extraction Well:		RW-1	MW-5	RW-1
Approximate Distance:		24 ft	12 ft.	82 ft
Time	**Elapsed Time**	**Depth to Liquid (feet below of casing):**		
Prior toAFVR		19.12	18.41	17.68
10:30	4 hours	19.34	18.42	17.68
14:30	8 hours	19.35	18.41	17.68
Maximum Change:		-0.23	-0.01	0.00



CAD FILE: REC 05-02-015ste.dwg

CONSULTECH ENVIRONMENTAL, INC. Environmental Consulting and Engineering © 1999 Delivering innovative solutions to today's environmental concerns	DRAWN: N.C.L.	DATE: 04/28/06
	UST#: 08650	
	PROJECT: GEORGE SOUTHER'S GROCERY	
	PROJECT No.: 05-02-015	
	LOCATION: CAMPOBELLO, SOUTH CAROLINA	

FIGURE 2
SITE PLAN MAP

C 121992

Crandall

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. 20693

2. Page 1 of 1

3. Generator's Name and Mailing Address Midlands Environmental
1144 Old Two Notch
Lexington, SC 29073

4. Generator's Phone (803) 808-2043

5. Transporter 1 Company Name: Crandall Corporation

6. US EPA ID Number: SCD981864499

A. Transporter's Phone: (803) 791-4800

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
Crandall Corporation
100 Rich-Lex Drive
Lexington, SC 29072

10. US EPA ID Number: SCD981864499

C. Facility's Phone: (803) 791-4800

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non - Hazardous Waste, Waste Water	01	TT	3120	G
b.				
c. •Costal mart 105(11776)(240gal) •Pelzer Gas mart(00480)(160gal) •Horton's Grocery A(06768)(150gal) •Hughes well drilling(00358)(170gal) •Durhams Grocery(06699)(190gal) •Macks Camp(01253)(750gal)				
d. •Kings Texaco(04783)(200gal) •George Southers L(08650)(0 gals) •Fmr Action Chevy(02970)(750gal) •Southerfield used(14212)(130gal) •Brown Brothers Gulf(04145)(300gal) •Smith's Service Station(15774)(40gal)				

D. Additional Descriptions for Materials Listed Above
•George Southers D(08650)(250gal)
•Newberry Airport B(15590)(110gal)
•Rockland Parking Lot B(15475)(120gal)
•Mathews(00820)(300gal)

FIELD SERVICE

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
•Burrows service center(12481)(325gal) •Bay Creek Villas C(18662)(200gal)
Service Call ID: GLB0120683 •Weather Service B(03073)70gal
•Allendale maint. Fac.(00316)(125gal) •Fmr Fast Fare(18131)(100gal)
•Pantry 640(07435)(280gal) •Avants(02578)(100gal)
Emergency Response: Infotrac - 800-535-5053 •Handy Pantry 89(04733)(100gal)
Caller must ID Crandall as registrant
•Weathers Service A(03073)(90gal)

16. 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.

Printed/Typed Name | Signature | Month Day Year: 03 31 08

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Shawn DeSpain | Signature | Month Day Year: 03 31 08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.

Printed/Typed Name | Signature | Month Day Year

GENERATOR TRANSPORTER FACILITY

GENERATOR COPY

Midlands
Environmental
Consultants, Inc.

April 2, 2008

RECEIVED
APR 04 2008
UNDERGROUND STORAGE
TANK PROGRAM

Ms. Susan Block, P.G., Hydrogeologist
Northeastern SC Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Subject: Aggressive Fluid Vapor Recovery Report
George Souther's Grocery
Campobello, South Carolina
SCDHEC Site ID # 08650; CA #31550
MECI Project Number 07-1511C

Dear Ms. Block,

Midlands Environmental Consultants, Inc. (MECI) is pleased to submit the attached Aggressive Fluid Vapor Recovery Report for the referenced site. This describes the aggressive fluid vapor recovery activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines.

AGGRESSIVE FLUID VAPOR RECOVERY

MECI personnel conducted an Aggressive Fluid Vapor Recovery (AFVR) event at Newberry County Maintenance Facility on March 29, 2008. The event was conducted on monitoring well MW-29 to reduce dissolved CoC concentrations. Free phase petroleum product was not detected in monitoring well MW-29 prior to the AFVR event. The event was conducted continuously for eight hours. The event was conducted by MECI personnel utilizing a MECI vacuum extraction unit. Free phase petroleum product was not detected in the well immediately following the event.

MECI treated the off gas produced during the AFVR event using an activated carbon filter system. Calculated total petroleum hydrocarbons removed from the wells were 3.03 pounds or approximately 0.52 equivalent gallons. The average rate of removal for the hydrocarbons was calculated to be 0.38 pounds per hour. Concentrations of off gas produced during the event were recorded from 302 parts per million by volume (PPM) to 348 PPM. Measurements were obtained from vapors prior to entering off gas treatment. Vacuum readings were recorded at 17.0 inches of mercury throughout the event. A complete compilation of measurements recorded is presented in attached Table 1C.

UST PROGRAM
DOCKETING # 117

Post Office Box 854, Lexington SC 29071 • 235-B Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

Differential pressures and groundwater levels were measured and recorded for selected site monitoring wells at regular intervals. This data is summarized in the attached Table 2C. Monitoring well locations are depicted on attached Figure 1.

A total of 0 gallons of liquids were removed from MW-29 during this event. Free phase petroleum product was not observed in the holding tank at the end of the event. The fluids produced were transported to Crandall Corporation of Lexington, S.C. for disposal. A disposal manifest for these fluids is attached at the end of this report.

QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assignment are consistent with those normally employed in enhanced fluid recovery events and waste management projects of this type. Contents of this report are intended for the use by MECI and the South Carolina Department of Health and Environmental Control, under mutually agreed upon terms and conditions. If other parties wish to rely on this report please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

Midlands Environmental appreciates the opportunity to offer our professional environmental related services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.

Brendon P. Kelly
Staff Scientist

William C. McClary P.G.
Senior Geologist

Attachments:

TABLE 1C
AFVR MONITORING DATA
GEORGE SOUTHER'S GROCERY
CAMPOBELLO, SOUTH CAROLINA
MECI PROJECT NUMBER 07-1511C
SCDHEC SITE ID NUMBER 08650

Extraction Well	Date	Time (hh:mm)	Differential Time (hr)	Extraction Well Head Vacuum (in. Hg)	Off Gas Measurements: Concentration (PPM)	Offgas Velocity Ft/Min	Flow Rate CFM	Removal Rate Lbs/Hr	Interval Removal Lbs
MW-29	03/19/08	10:45	0.50	17.0	348	1030	92.70	0.39	0.19
	03/19/08	11:15	0.50	17.0	311	1110	99.90	0.37	0.19
	03/19/08	11:45	0.50	17.0	310	980	88.20	0.33	0.16
	03/19/08	12:15	0.50	17.0	310	1090	98.10	0.36	0.18
	03/19/08	12:45	0.50	17.0	304	1080	97.20	0.35	0.18
	03/19/08	13:15	0.50	17.0	305	1030	92.70	0.34	0.17
	03/19/08	13:45	0.50	17.0	304	1020	91.80	0.33	0.17
	03/19/08	14:15	0.50	17.0	310	1000	90.00	0.33	0.17
	03/19/08	14:45	0.50	17.0	309	1000	90.00	0.33	0.17
	03/19/08	15:15	0.50	17.0	302	980	88.20	0.32	0.16
	03/19/08	15:45	0.50	17.0	311	1030	92.70	0.35	0.17
	03/19/08	16:15	0.50	17.0	312	1040	93.60	0.35	0.18
	03/19/08	16:45	0.50	17.0	322	1020	91.80	0.35	0.18
	03/19/08	17:15	0.50	17.0	332	1060	95.40	0.38	0.19
	03/19/08	17:45	0.50	17.0	335	1030	92.70	0.37	0.19
	03/19/08	18:15	0.50	17.0	338	1030	92.70	0.38	0.19
	03/19/08	18:45	0.50	17.0	342	1110	99.90	0.41	0.20
									TOTAL 3.03

Well Data: Well No.	Diameter (in)	Total Depth (ft)	Pre AFVR Event: Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Post AFVR Event: Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Corrected Depth to Water Change (ft)
MW-29	2"	35	***	25.02	***	***	22.68	***	-2.34

Vacuum Truck Information		Well ID	Stinger Depth
Subcontrator:	MECI	MW-29	20.00
Truck Operator:	B. Kelly		
Stack I.D. (feet)	0.33 feet		

Recovery / Disposal Information		
Hydro carbons Removed (vapor):	3.03	Pounds
Hydro carbons Removed (liquid):	0	Gallons
Total Hydrocarbons Removed:	0.52	Equivalent Gallons
Molecular Weight Utilized:	75	g / mole
Disposal Facility	Crandall Corporation	
Total Liquids Removed:	0	Gallons

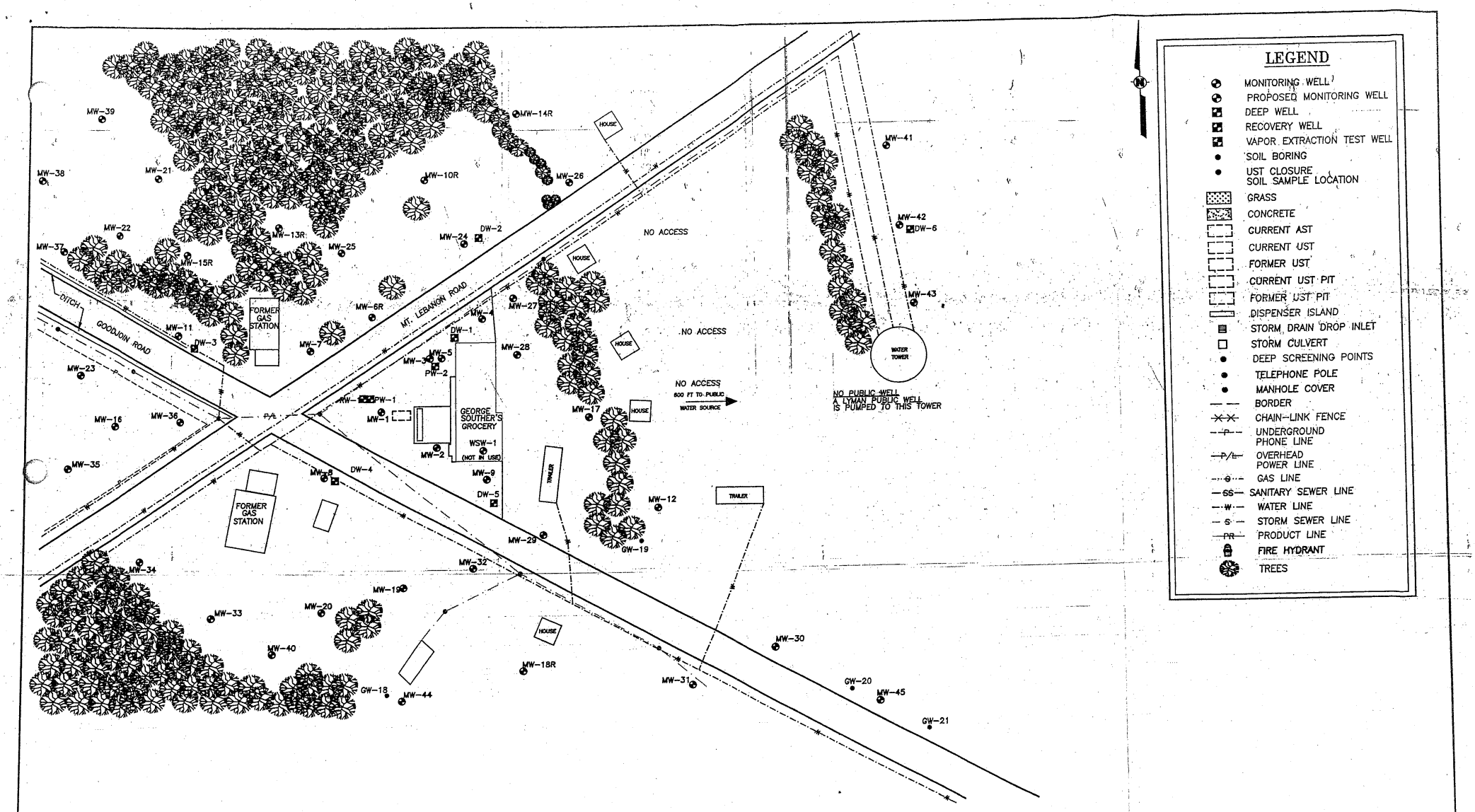
TABLE 2C
DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
GEORGE SOUTHER'S GROCERY
CAMPOBELLO, SOUTH CAROLINA
MECI PROJECT NUMBER 07-1511C
SCDHEC SITE ID NUMBER 08650

DIFFERENTIAL PRESSURE DATA

		Well Designation:		
		MW-9	**MW-32**	**DW-5**
Nearest Extraction Well:		MW-29	MW-29	MW-29
Approximate Distance:		96 ft	80 ft.	56 ft
Time	**Elapsed Time**	**Differential Pressure Readings (inches of water)**		
10:45	0.0	0	0	0
11:15	0.5	0	0	0
11:45	1.0	0	0	0
12:15	1.5	0	0	0
12:45	2.0	0	0	0
13:15	2.5	0	0	0
13:45	3.0	0	0	0
14:15	3.5	0	0	0
14:45	4.0	0	0	0
15:15	4.5	0	0	0
15:45	5.0	0	0	0
16:15	5.5	0	0	0
16:45	6.0	0	0	0
17:15	6.5	0	0	0
17:45	7.0	0	0	0
18:15	7.5	0	0	0
18:45	8.0	0	0	0
Maximum Change:		**0**	**0**	**0**

GROUNDWATER DRAWDOWN DATA

		Well Designation:		
		MW-9	**MW-32**	**DW-5**
Nearest Extraction Well:		MW-29	MW-29	MW-29
Approximate Distance:		96 ft	80 ft.	56 ft
Time	**Elapsed Time**	**Depth to Liquid (feet below of casing):**		
Prior toAFVR		23.68	26.07	23.70
14:45	4 hours	23.68	26.07	23.70
18:45	8 hours	23.68	26.22	23.70
Maximum Change:		0.00	-0.15	0.00



CAD FILE: REC 05-02-015ste.dwg

CONSULTECH ENVIRONMENTAL, INC. Environmental Consulting and Engineering © 1999 Delivering innovative solutions to today's environmental concerns	DRAWN: N.C.L.	DATE: 04/28/06
	UST#: 08650	
	PROJECT: GEORGE SOUTHER'S GROCERY	
	PROJECT No.: 05-02-015	
	LOCATION: CAMPOBELLO, SOUTH CAROLINA	

FIGURE 2
SITE PLAN MAP

C 127992

Crandall

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Document No. 20683	2. Page 1 of 1

3. Generator's Name and Mailing Address Midlands Environmental
1144 Old Two Notch
Lexington, SC 29073
4. Generator's Phone (803) 808-2043

5. Transporter 1 Company Name: Crandall Corporation
6. US EPA ID Number: SCD981864499
A. Transporter's Phone: (803) 791-4800

7. Transporter 2 Company Name
8. US EPA ID Number
B. Transporter's Phone

9. Designated Facility Name and Site Address
Crandall Corporation
100 Rich-Lex Drive
Lexington, SC 29072
10. US EPA ID Number: SCD981864499
C. Facility's Phone: (803) 791-4800

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non - Hazardous Waste, Waste Water	01	TT	3120	G
b.				
c. •Costal mart 105 (11776) (240gal) •Pelzer Gas mart (00480) (600gal) •Horton's Grocery A (06768) (50gal) •Hughes well drilling (00358) (170gal) •Durhams Grocery (06699) (190gal) •Macks Camp (01253) (75gal)				
d. •Kinas Texaco (04783) (200gal) •George Southers (08650) (0 gals) •Fmr Action Chevy (02970) (75gal) •Southerfield used (14212) (130gal) •Brown Brothers Gulf (04145) (300gal) •Smith's Service Station (15774) (40gal)				

D. Additional Descriptions for Materials Listed Above
•George Southers D (08650) (250gal)
•Newberry Airport B (15590) (110gal)
•Rockland Parking Lot B (15475) (120gal)
•Mathenys (00820) (300gal)

FIELD SERVICE

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
•Burrows Service Center (12481) (325gal) •Bay Creek Villas C (18662) (200gal)
Service Call ID: GLB0120683
•Allendale maint. fac. (00316) (125gal) •Fmr Fast Fare (18131) (100gal)
•Pantry 640 (07435) (280gal) •Avants (02578) (100gal)
Emergency Response: Infotrac - 800-535-5053 •Handy Pantry 89 (04733) (100gal)
Caller must ID Crandall as registrant
•Weathers Service A (03073) (90gal) •Weather Service B (03073) 70gal

16. 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.
Printed/Typed Name | Signature | Month Day Year: 03 31 08

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Shawn DeSpain | Signature | Month Day Year: 03 31 08

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.
Printed/Typed Name | Signature | Month Day Year

GENERATOR
TRANSPORTER
FACILITY

GENERATOR COPY

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

MR GEORGE SOUTHER
280 GOODJOIN RD
CAMPOBELLO SC 29322

APR 11 2008

Re: **AFVR Report Review**
George Souther's Grocery, 280 Goodjoin Rd., Campobello, SC
UST Permit # 08650; Release reported December 31, 1991
AFVR Reports received April 4, 2008
Spartanburg County

Dear Mr. Souther:

On March 20, 2008, an Aggressive Fluid Vapor Recovery (AFVR) event took place at the referenced facility on wells RW-1 and MW-5. After completion of the event, no free product was present in RW-1 or MW-5. On March 29, 2008, an Aggressive Fluid Vapor Recovery (AFVR) event took place at the referenced facility on well MW-29. After completion of the event, no free product was present. Copies of both reports are enclosed. Per your signed permission form, the Underground Storage Tank (UST) Program will continue to coordinate rehabilitation activities on your behalf. Future monitoring reports will be forwarded to you once they have been reviewed.

Please feel free to contact me by phone at (803) 896-4078, fax at (803) 896-6245 or email at jaspermj@dhec.sc.gov if you have any questions or need additional information.

Sincerely,

Mike Jaspers, Hydrogeologist
Northeastern SC Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management

enc: AFVR Reports

cc: Technical File (w/out enc)

MJJ/3.12.08

UST
NOV 0 9 2009
PROGRAM

BLE INC.
GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

BUNNELL-LAMMONS ENGINEERING, INC.
6004 Ponders Court
Greenville, SC 29615

Phone: 864-288-1265
Fax: 864-288-4430

TRANSMITTAL LETTER

TO: Mr. Mike Rivers

PROJECT NAME: George Souther's Grocery
UST Permit #08650

DATE: November 6, 2009

PROJECT NO.:

RE: O/O Form Submittal

WE ARE SENDING YOU:

☒ Attached ☐ Under separate cover via the following item(s).

☐ Draft report ☐ Prints ☐ Change order ☐ Letter ☐ Report
☒ Other ☐ W.A.S. ☐ Plans ☐ Invoice ☐ Specifications
☐ Proposals ☐ Preliminary Data:

Copies	*Date*	*No.*	*Description*
1	11/16/09	1	O/O Form – UST Permit #08650

THESE ARE TRANSMITTED AS CHECKED BELOW:
☐ For your approval ☒ For your use ☐ As requested ☐ For review and comment ☐ Other

REMARKS:

Mike,

Enclosed is the signed O/O form for the aforementioned site in Spartanburg County. The O/O form for George Souther's Grocery is signed by Mr. George Souther. Please update your files to reflect BLE as the new contractor of choice for this site. If you have any questions, please feel free to contact me.

Sincerely,

Trevor Benton

ORIGINAL TO: SCDHEC UST Program **SIGNED:**
Trevor Benton, P.G.

UST
DOCKET
13Tenb

UNDERGROUND STORAGE TANK (UST)
OWNER/OPERATOR LEAD INFORMATION SHEET

1. CONTRACTOR OF CHOICE

As the UST Owner/Operator of UST Permit # 8650, I would like to use the contractor or person(s)* listed below and request that they represent me for:

☐ Current Work Scope Only
☑ All future assessment scopes **

Name of Contractor/Person(s) BUNNELL-LAMMONS ENGINEERING

Address 6004 PONDERS COURT
GREENVILLE, SC
29615

Telephone Number (864) 288-1265

Note: After September 20, 1997, rehabilitation activities must be performed by a SC Certified Site Rehabilitation Contractor.

*Indicate if the person listed is your own employee

**** If you would like the contractor to perform all future assessment activities at this and/or other UST sites that have confirmed releases, please provide a list of all sites on your letterhead and provide the information requested in items 2 and 3 below within the context of the letter.**

2. FINANCIAL OR FAMILIAL RELATIONSHIP

Does a financial or familial relationship, as defined below, exist between you and the contractor/person that you listed above?
_____ Yes ✓ No (please initial)

Financial Relationship: A connection or association through a material interest of sources of income, which exceed five percent of annual gross income from a business entity.

Familial Relationship: A connection or association by family or relatives, in which a family member or relative has a material interest. Family or relatives include: father, mother, son, daughter, brother, sister, uncle, aunt, first cousin, nephew, niece, husband, wife, father-in-law, mother-in-law, son-in-law, daughter-in-law, stepfather, stepmother, stepson, stepdaughter, stepbrother, stepsister, half brother, half sister, grandparent, grandchild, great grandchild, step grandparent, step great grandparent, step grandchild, step great grandchild, or fiancé.

3. PAYMENT

You can pay the contractor and, upon the submittal of the canceled check (front and back) or a notarized statement from the contractor verifying payment, be compensated from the SUPERB Account, or have payment issued directly from the SUPERB Account to the contractor. (Check one)

_____ I request that payment be made to me after I have paid the contractor.

✓ I request that payment be made directly to the contractor.

(Note: all costs must receive prior financial approval from the Department regardless of payment option.)

Underground Storage Tank Owner/Operator Signature George E. Southn

Date 10/4/09

D H E C
PROMOTE PROTECT PROSPER
South Carolina Department of Health
and Environmental Control

UST MANAGEMENT DIVISISON
BUREAU OF LAND AND WASTE MANAGEMENT
2600 Bull Street, Columbia, South Carolina 29201
Telephone (803) 896-6241

MEMORANDUM

UST DOCKET 14tech

DATE: May 6, 2010

TO: Technical File

FROM Mike Rivers, Hydrogeologist MR
Corrective Action Section

RE: **Impacted Water Supply Well Notification**
George Souther's Grocery, 280 Goodjoin Road, Campobello, SC
UST Permit #08650
Release reported December 31, 1991
Spartanburg County

On the afternoon of May 5, 2010, Trevor Benton of Bunnell-Lammons Engineering, Inc. (BLE) notified Susan Fulmer by telephone that BLE field personnel were at the referenced site and detected free-product in the onsite water supply well (well). BLE personnel will return to the site on May 6, 2010 with an explosimeter to check vapor levels and to cap off the well for now. Susan forwarded her conversation notes to Mike Rivers via e-mail (in working file).

In a May 6, 2010 telephone conversation, Trevor Benton told Mike Rivers that the well is located in an unventilated crawl space beneath the site building. Access to the well is through the building's full basement and by climbing over an approximately 4 to 5 foot wall into the crawl space. The well is 5 feet in diameter and 28 feet deep. The well contained 0.8 feet free-product on May 5, 2010. Strong vapors over the wellhead were detected by sense of smell. The well was previously capped but BLE personnel planned to augment the cap with a plastic sheeting overlay.

Trevor said he expects to obtain the explosimeter results and to forward the results to Mike Rivers the afternoon of May 6, 2010. The results will determine if the site requires emergency notification and response, i.e., calling the local fire department if the LEL is exceeded. If the vapor levels are below the LEL, an emergency response may not be warranted and BLE can proceed to remove the well water with a vacuum truck prior to well abandonment. I informed Trevor that continuous vapor monitoring would likely be required, as the vapor levels will tend to increase during water evacuation. In addition, a continuous ventilation system will need to be implemented in the crawl space, which will first require cutting vent holes into the foundation wall.

cc: Region II EQC – Spartanburg Office

MR/FILEMEMO05.06.10

SC DHEC - UST Owner/Operator Lead Contractor Choice Form

UST
MAY 07 2010
PROGRAM

UST DOCKET
15 Feb

SOUTHER

As the UST Owner/Operator of Site with DHEC Permit # : (example: Dave's Grocery : 04567)

UST Permit Number: 08650

We would like to use the contractor listed below and request that they represent me for:

_____ Initial Groundwater Assessment **XX** YES All Future Assessment scopes **XX** YES Corrective Actions
(Please Initial) (Please Initial)

Name of SC DHEC Certified Contractor	**TERRY Environmental Services, Inc. Contractor # 223**
Address	**P.O. Box 25, Summerville, South Carolina 29484**
Telephone Number	**(843) 873- 8200**

Note: Site rehabilitation activities must be performed by a SCDHEC Certified Site Rehabilitation Contractor in accordance with R.61-98. You may change this selection in the future should you so desire. To verify a certified Contractor, please call SCDHEC at 803-896-6240)

FINANCIAL OR FAMILIAL RELATIONSHIP

Does a financial or familial relationship, as defined below, exist between you and the contractor/person that you listed above? Please initial where applicable.

_____ Yes **XX** YES **No**
(Please Initial)

Financial relationship: A connection or association through a material interest of sources of income which exceed five percent of annual gross income from a business entity.
Familial Relationship: A connection or association by family or relatives, in which a family member or relative has a material interest. Family or relatives include: father, mother, son, daughter, brother, sister, uncle, aunt, first cousin, nephew, niece, husband, wife, father-in-law, mother-in-law, daughter-in-law, step father, stepmother, stepson, stepdaughter, stepbrother, stepsister, half brother, half sister, grandparent, grandchild, great grandchild, step grandparent, step great grandparent, step grandchild, step great grandchild, or fiancée.

PAYMENT

You can pay the contractor and, upon submittal of the canceled check (or a notarized statement from the contractor), be compensated from the SUPERB Account, or have payment issued directly from us to the contractor. Note: All costs must receive prior financial approval from the Department regardless of payment option. Please initial by your choice.

I request that payment be made to me after I have paid the contractor. _____Yes _____ No

I request that payment be made directly to the contractor. **XX** YES **Yes** _____ No
(Please Initial)

UST Owner / Operator / RP: George E. Souther
Signature

Name: George E. Souther Date: 4/29/2010
Print

UST
MAY 1 8 2010
PROGRAM

BLE INC.

GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

BUNNELL-LAMMONS ENGINEERING, INC.
6004 Ponders Court
Greenville, SC 29615

Phone: 864-288-1265
Fax: 864-288-4430

16 tech
UST
DOCKET

TRANSMITTAL LETTER

TO: Mr. Mike Rivers - SCDHEC UST Section

PROJECT NAME: George Souther's Grocery
UST Permit #06588

DATE: May 17, 2010

PROJECT NO.: J10-7051-01

RE: O/O Form Submittal

WE ARE SENDING YOU:

☒ Attached ☐ Under separate cover via the following item(s).

☐ Draft report ☐ Prints ☐ Change order ☐ Letter ☒ Report
☒ Other ☐ W.A.S. ☐ Plans ☐ Invoice ☐ Specifications
☐ Proposals ☐ Preliminary Data:

Copies	*Date*	*No.*	*Description*
1	5/17/10	1	George Souther's Grocery – UST Permit #08650 – O/O Form Submittal

THESE ARE TRANSMITTED AS CHECKED BELOW:
☐ For your approval ☒ For your use ☐ As requested ☐ For review and comment ☐ Other

REMARKS:

Mike,

Enclosed is the signed O/O form for George Souther's Grocery in Spartanburg County. The O/O form for the site is signed by Mr. George Souther. Please update your files to reflect BLE as the contractor of choice for this site. If you have any questions, please feel free to contact me.

Sincerely,

Trevor Benton

ORIGINAL TO: SCDHEC UST Program **SIGNED:**
Trevor Benton, P.G.

UNDERGROUND STORAGE TANK (UST)
OWNER/OPERATOR LEAD INFORMATION SHEET

1. CONTRACTOR OF CHOICE

As the UST Owner/Operator of UST Permit # 08650, I would like to use the contractor or person(s)* listed below and request that they represent me for:

☐ Current Work Scope Only
☑ All future assessment scopes **

Name of Contractor/Person(s) BUNNELL-LAMMONS ENGINEERING

Address 6004 PONDERS COURT
GREENVILLE, SC
29615

Telephone Number (864) 288-1265

Note: After September 20, 1997, rehabilitation activities must be performed by a SC Certified Site Rehabilitation Contractor.

*Indicate if the person listed is your own employee

**** If you would like the contractor to perform all future assessment activities at this and/or other UST sites that have confirmed releases, please provide a list of all sites on your letterhead and provide the information requested in items 2 and 3 below within the context of the letter.**

2. FINANCIAL OR FAMILIAL RELATIONSHIP

Does a financial or familial relationship, as defined below, exist between you and the contractor/person that you listed above?
_____ Yes ✓ No (please initial)

Financial Relationship: A connection or association through a material interest of sources of income, which exceed five percent of annual gross income from a business entity.

Familial Relationship: A connection or association by family or relatives, in which a family member or relative has a material interest. Family or relatives include: father, mother, son, daughter, brother, sister, uncle, aunt, first cousin, nephew, niece, husband, wife, father-in-law, mother-in-law, son-in-law, daughter-in-law, stepfather, stepmother, stepson, stepdaughter, stepbrother, stepsister, half brother, half sister, grandparent, grandchild, great grandchild, step grandparent, step great grandparent, step grandchild, step great grandchild, or fiancé.

3. PAYMENT

You can pay the contractor and, upon the submittal of the canceled check (front and back) or a notarized statement from the contractor verifying payment, be compensated from the SUPERB Account, or have payment issued directly from the SUPERB Account to the contractor. (Check one)

_____ I request that payment be made to me after I have paid the contractor.

✓ I request that payment be made directly to the contractor.

(Note: all costs must receive prior financial approval from the Department regardless of payment option.)

Underground Storage Tank Owner/Operator Signature X George E Southn

Date X 5/17/10

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

MAY 25 2010

iMtch UST DOCKET

MR GEORGE E SOUTHER
280 GOODJOIN ROAD
CAMPOBELLLO SC 29322

Re: **Recovery Well Installation Directive**
George Souther's Grocery, 280 Goodjoin Road, Campobello, SC
UST Permit #08650; CA #39042; RWA #UMW-23680
Release reported December 31, 1991
Detection of free-phase petroleum product in onsite water supply well (reported on May 5, 2010)
Spartanburg County

Dear Mr. Souther:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (SCDHEC) recognizes your selection of Bunnell-Lammons Engineering, Inc. (BLE) as your contractor to perform work at the referenced site. Based on the May 5, 2010 reporting of free-phase petroleum product (product) in the onsite water supply well designated WSW-1, the UST Division is directing the installation of a permanent recovery well RW-2 for removal of product. Per BLE's recommendation on May 11, 2010 via a telephone call from Trevor Benton to Mike Rivers, the recovery well may be installed within the water supply well prior to abandonment of the water supply well. As such, drill cuttings will not be generated and a subsequent well survey will not be needed. Following the installation, please have BLE submit DHEC Form 1903 for well RW-2 to the UST Division.

The DHEC Form 1903 and invoice are due within sixty (60) days from the date of this letter. An interim invoice may not be submitted for this scope of work. If the invoice is not submitted within one hundred and twenty (120) days from the date of this letter, monies allocated to pay for the work will be uncommitted. This means that invoices for the scope of work submitted after the 120-day deadline will not be processed for payment until all other committed funds are paid or monies become available.

Also, 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 UST Division is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated costs must be pre-approved by the UST Division for the costs 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 to audit project records at any time during the project or after completion of work.

On all correspondence concerning this site and directive, please reference **UST Permit #08650 and CA #39042**. If you have any questions concerning this project, please contact me by telephone at (803) 896-4078, by fax at (803) 896-6245, or by e-mail at RIVERSMS@dhec.sc.gov.

Sincerely,

Michael (Mike) Rivers, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved cost agreement
Recovery well approval

cc: Mr. Trevor Benton, P.G., Bunnell-Lammons Engineering, Inc., 6004 Ponders Court, Greenville, SC 29615 (w/enc)
Technical file (w/ enc.)

MR/RWINSTALL05.12.10

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

Recovery Well Approval

Approval is hereby granted to: Bunnell-Lammons Engineering, Inc.
(On behalf of): George E. Souther
Facility: George Souther's Grocery
UST Permit Number: 08650
County: Spartanburg

This approval is for the installation of one 4-inch diameter groundwater recovery well designated RW-2. The recovery well is to be installed within the discontinued onsite water supply well WSW-1. The recovery well is 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 wells shall be labeled as required by R.61-71.H.2.c.
3. A water well record form (DHEC Form 1903) or other form provided or approved by the SCDHEC shall be completed and submitted to the SCDHEC within 30 days after well completion or abandonment unless another schedule has been approved by the SCDHEC. The form should contain the "as-built" construction details and all other information required by R.61-71.H.1.f.
4. If any of the information provided to the SCDHEC changes, notification to Michael Rivers at (803) 896-4078 or e-mail to RIVERSMS@scdhec.sc.gov shall be provided a minimum of twenty-four (24) hours prior to well construction as required by R.61-71.H.1.a.
5. All temporary 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.
6. SCDHEC approval is required prior to abandonment of all 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: May 12, 2010 **Approval #: UMW-23680**

Michael (Mike) Rivers, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

Approved Cost Agreement 39042

Facility: 08650 GEORGE SOUTHER'S GROCERY
RIVERSMS
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB						
		A	EQUIPMENT	1.0000	575.00	575.00
		B	PERSONNEL	1.0000	290.00	290.00
18 MISCELLANEOUS						
			4 INCH RECOVERY WELL	28.0000	45.00	1,260.00
19 RPT/PROJECT MNGT & COORDINATIO						
		PCT	PERCENT	0.1500	2,125.00	318.75
				Total Amount		2,443.75

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

JUN 08 2010

UST DOCKET 18tech

MR GEORGE E SOUTHER
280 GOODJOIN ROAD
CAMPOBELLO SC 29322

Re: **Water Supply Well Abandonment Directive**
George Souther's Grocery (former), 280 Goodjoin Road, Campobello, SC
UST Permit #08650; CA #39153
Release reported December 31, 1991
Water Supply Well Abandonment Bids received May 25 and 27, 2010
Spartanburg County

Dear Mr. Souther:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (SCDHEC) recognizes your commitment to continue work at this site utilizing Bunnell-Lammons Engineering, Inc. (BLE). According to the Water Supply Well Information Form received March 20, 2008, the UST Division understands that you have chosen to have your water supply well abandoned. The UST Division has received the required bids from BLE's solicited subcontractors to perform the abandonment; therefore, a cost agreement has been issued for this task.

Cost Agreement #39153 has been approved in the amount shown on the enclosed cost agreement form for well abandonment. BLE 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 well abandonment and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

In accordance with the South Carolina Well Standards, R.61-71.F.14, a well abandonment report and invoice are due within sixty (60) days from the date of this letter. Interim invoices may not be submitted for this scope of work. If the invoice is not submitted within one hundred twenty (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 UST Division is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be preapproved by the UST Division 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, the SCDHEC reserves the right to question and/or reject costs if deemed unreasonable and to audit project records at any time during the project or after completion of work.

On all correspondence concerning this directive, please reference **UST Permit #08650 and CA #39153.** If you have any questions, please contact me at (803) 896-4078 or by e-mail at RIVERSMS@dhec.sc.gov.

Sincerely,

Michael (Mike) Rivers, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Mr. Trevor J. Benton, P.G., Bunnell-Lammons Engineering, Inc., 6004 Ponders Court, Greenville, SC 29615 (w/enc.)
Technical File (w/enc.)

MR/WSWABAND05.28.10

Approved Cost Agreement 39153

Facility: 08650 GEORGE SOUTHER'S GROCERY
RIVERSMS
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB						
		B	PERSONNEL	4.0000	290.00	1,160.00
18 MISCELLANEOUS						
			ADVANCED ENV OPTIONS INC-WATER SUPPLY W	1.0000	9,399.06	9,399.06
19 RPT/PROJECT MNGT & COORDINATIO						
		PCT	PERCENT	0.1500	10,559.06	1,583.86
				Total Amount		12,142.92

BLE INC.
BUNNELL-LAMMONS ENGINEERING, INC.
GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

UST
OCT 11 2010
PROGRAM

October 8, 2010

19 Feb
UST
DOCKET

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management
Underground Storage Tank Program
2600 Bull Street
Columbia, S.C. 29201-1708

Attention: Mr. Michael Rivers, Hydrogeologist

Subject: **Report of Recovery Well Installation/Water Supply Well Abandonment**
George Souther's Grocery
280 Goodjoin Road
Campobello, South Carolina
UST Permit # 08650; Cost Agreement # 39042 & #39153
BLE Project No. J10-7051-01 & -02

Dear Mr. Rivers:

On behalf of Mr. George E. Souther, Bunnell-Lammons Engineering, Inc. (BLE) has completed the installation a free-product recovery well/abandonment of the out-of-service water supply well at the subject site. This scope of work was performed in response to South Carolina Department of Health and Environmental Control (SCDHEC) letters dated May 25 and June 8, 2010. This report describes the work performed and presents the results obtained, along with our comments and recommendations. Please do not hesitate to contact us if you have any questions concerning this report.

Sincerely,

BUNNELL-LAMMONS ENGINEERING, INC.

TREVOR J. BENTON REGISTERED No. 2395 SOUTH CAROLINA PROFESSIONAL GEOLOGIST

PROFESSIONAL GEOLOGIST REGISTERED No. 893 SOUTH CAROLINA THOMAS L. LAMMONS

Trevor J. Benton, P.G.
Project Hydrogeologist
Registered, South Carolina No. 2395

Thomas L. Lammons, P.G.
Principal Hydrogeologist
Registered, South Carolina No. 893

cc: Mr. George E. Souther, 280 Goodjoin Road, Campobello, South Carolina 29322

6004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615

PHONE (864) 288-1265
FAX (864) 288-4430

1.0 BACKGROUND INFORMATION

The subject property is located at the intersection of Goodjoin Road and Mt. Lebanon Road in Campobello, South Carolina (Figure 1). The site currently operates as a convenience store and petroleum retail store. Structures on the property consist of a convenience store/office building, a canopy, fuel dispenser islands, and four active underground storage tanks registered under UST Permit #14391. Additionally, one out-of-service, hand dug water supply well was located in the crawl space of the convenience store. Adjacent parcels primarily consist of residential properties and woodlands.

In December 1991, one 550-gallon kerosene UST, one 3,000-gallon diesel UST, one 4,000-gallon gasoline UST, and three 3,000-gallon gasoline USTs were abandoned at the site. The tanks were replaced by one 2,000-gallon kerosene UST, one 2,000-gallon diesel UST, one 6,000-gallon gasoline UST, and one 10,000-gallon gasoline UST (under new UST permit #14391) and are currently in operation today. In response to a release of petroleum contaminants detected during the UST closure, 53 groundwater monitoring wells have been installed by other contractors to assess groundwater contamination at the site.

On November 4, 2009, BLE was retained as the contractor of choice for this site by Mr. George E. Souther. On May 5, 2010, BLE personnel visited the site to investigate the water supply well located in the crawlspace of the convenience store. A five-foot diameter, unsealed, hand dug water supply well was observed in the crawlspace. The well was 29.5 feet in depth and contained 0.8 feet of petroleum free-product at the time of our measurement. Conversations with store employees indicated that strong petroleum odors were frequently detected in the store. On May 6, 2010, BLE personnel remobilized to the site with an explosimeter to evaluate the petroleum vapor concentrations in the crawl space of the store. Explosive conditions were noted in the immediate vicinity of the water supply well; therefore, as an emergency abatement procedure, BLE personnel remobilized to the site on May 7, 2010 and installed and secured a vapor barrier over the well. SCDHEC was notified of our findings and subsequently requested BLE to provide three quotes for abandonment of the water supply well. Advanced Environmental Options, Inc. (AEO) of Spartanburg, South Carolina was awarded the contract for the abandonment activities.

In an effort to utilize this well as a future free-product recovery point, BLE recommended to construct a 4-inch diameter recovery well inside of the water supply well prior to closure. The recovery well could be piped to the exterior of the facility, where future free-product removal could be conducted via aggressive fluid vapor recovery (AFVR) events. SCDHEC concurred with our recommendation and on July 13 and 14, 2010 a recovery well was installed inside the water supply well and then the water supply well was abandoned. This report describes recovery well installation and water supply well abandonment.

RECOVERY WELL INSTALLATION AND WATER SUPPLY WELL ABANDONMENT

One free-product recovery well, RW-2, was installed inside of the borehole of the out-of-service water supply well on July 13, 2010. The well was installed to serve as an additional AFVR extraction point for removal of free-phase product, petroleum impacted groundwater, and petroleum vapors from beneath the active convenience store (an otherwise inaccessible location). The location of the new recovery well is shown on Figure 2.

The recovery well consists of 4-inch ID, schedule 40 PVC casing with flush-threaded joints installed in the water supply well borehole. The bottom 14-foot section of the well is a manufactured well screen with 0.010-inch wide machined slots. The well was installed to 29.5 feet below ground surface (bgs) and bracketed the water table.

Prior to well filter pack installation, the free-product and groundwater was evacuated from the water supply well utilizing a 3,000-gallon capacity vacuum truck. In order to gain access to the well location, a hole was created in the rear exterior block wall of the store. Approximately 580 gallons of petroleum impacted water was pumped from the water supply well. Of that volume, approximately 150 gallons of petroleum free-product was recovered. Waste transportation and disposal records for the petroleum impacted water are provided in Appendix A.

Upon completion of the vacuum event, the recovery well filter pack was installed. Appropriate ventilation equipment was placed in the crawlspace to remove excess petroleum vapors and dust

created during the well filter pack installation. Additionally, all personnel in the crawlspace were equipped with proper personal protective equipment (PPE) and were previously trained for confined space entry. The well filter pack gravel was blown into the water supply well borehole utilizing high pressure airflow. Initially, a granite-based filter gravel was utilized for cost savings purposes; however, due to excessive dust being displaced into the convenience store, Mr. Mike Rivers of SCDHEC approved the use of a washed pea gravel (slight increase in costs). The filter pack gravel was installed to 12.7 feet bgs and the borehole was sealed with hydrated bentonite chips to 11 feet bgs. Finally, cement was pumped into the borehole and filled to level with the ground surface. Upon completion of the well installation/abandonment activities, the rear exterior block wall was repaired. Recovery well installation details and a boring log for RW-2 are provided in Appendix B. Photographs of the recovery well installation and water supply well abandonment activities are in Appendix C.

In order to utilize the recovery well as a permanent extraction point, a dedicated drop tube was installed inside of the four-inch diameter recovery well. The drop tube was constructed of one-inch diameter, petroleum-rated, flexible hose and was installed to 21 feet bgs. Quarter-inch diameter holes were drilled in the bottom four feet of the drop tube to allow for free-product accumulation and liquid recovery. The recovery well and drop tube were temporarily plumbed to the exterior wall of the crawl space. Upon approval of future AFVR events at the facility, the well and drop tube will be plumbed to the exterior of the store and secured within a standard eight-inch diameter monitoring well manhole for accessibility.

The new recovery well location was surveyed by a South Carolina licensed surveyor (George B. Souther RLS, SC # 21232) to establish horizontal control and vertical elevation of the ground surface and top of PVC well casing. The survey results are provided as Figure 3.

CONCLUSIONS AND RECOMMENDATIONS

One four-inch diameter recovery well has been installed inside of the existing five-foot diameter borehole of the out-of-service water supply well located beneath the active convenience store. After installation of the recovery well filter pack gravel, the remainder of the borehole was sealed

and filled with concrete to the ground surface. A dedicated drop tube was installed in the well four feet below the water table, and will be utilized to perform future AFVR events at the site.

Since free-product is present in the new recovery well (RW-2) and has historically been present in existing monitoring wells MW-2, MW-5, MW-6, MW-8, MW-11, MW-29, and RW-1, we recommend performing multiple AFVR events to 1) remove residual free-phase product from the area around the extraction points, 2) remove petroleum hydrocarbon vapors from the unsaturated zone, and 3) remove petroleum impacted groundwater (mass) from the subsurface. As the next scope of work at the site, we recommend one AFVR event be performed on existing monitoring wells RW-1 and MW-5, one event on MW-29, and a minimum of one AFVR event on new recovery well RW-2. Future AFVR events will be recommended for the site based field data collected during the AFVR events.

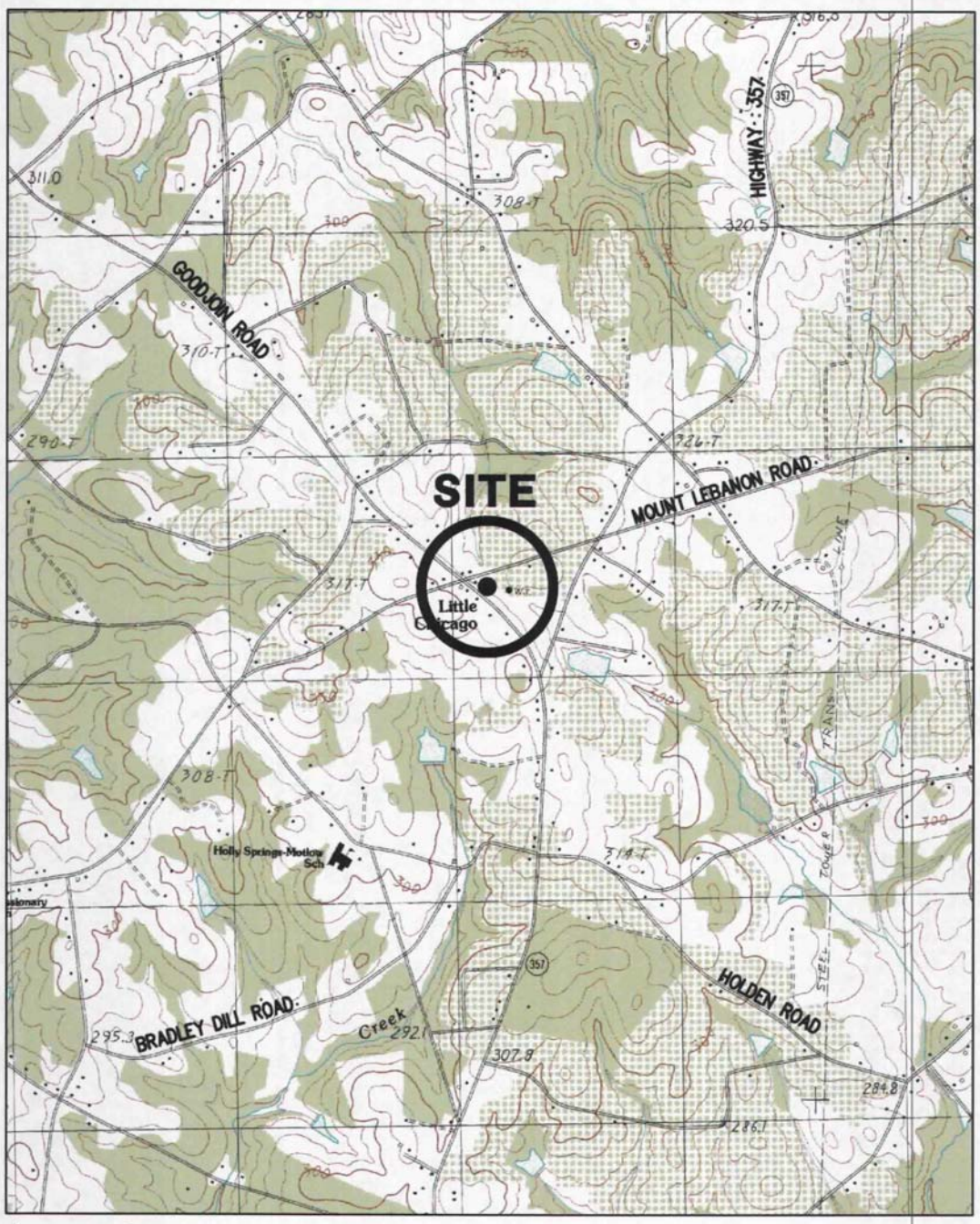
The existing comprehensive survey for the site was completed by Baxter Land Surveying Company, Inc. on December 16, 2005 and monitoring wells MW-44 and MW-45 were added by Consultech Environmental, Inc. on April 5, 2006. Upon surveying RW-2 during this current scope of work, it was noted that the vertical elevations for several existing monitoring wells did not match-up with the prior comprehensive survey; thus the current elevation for RW-2 could not be accurately tied-in. Please understand that the elevation provided for RW-2 must be treated as approximate. Additionally, BLE personnel and Mr. Mike Rivers of SCDHEC were unable to locate several existing monitoring wells in a wooded area across Mt. Lebanon Road. We recommend a new comprehensive survey be conducted at the site to locate existing monitoring wells in the wooded lot across Mt. Lebanon Road and to accurately incorporate all wells associated with the site on one map. The new survey will be tied to the South Carolina State Plane Coordinate System and will be relative to mean sea level. As described in SCDHEC's SUPERB Allowable Costs document dated February 1, 2006, one comprehensive survey will be allowed for each 500 ft. by 500 ft. area (250,000 square feet). Additional surveys may be allowed for each additional 500 ft. by 500 ft. area. Therefore, two comprehensive surveys will be necessary to complete this task.

QUALIFICATION OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessments of this type. Our evaluation of site conditions has been based on our understanding of the site and project information and the data obtained in our exploration.

This report has been prepared on behalf of and exclusively for the use of Mr. George E. Souther. This report and the findings contained herein shall not, in whole or in part, be used or relied upon by any other party without BLE's prior written consent. Any unauthorized use or distribution of BLE's work shall be at third parties risk and without liability to BLE.

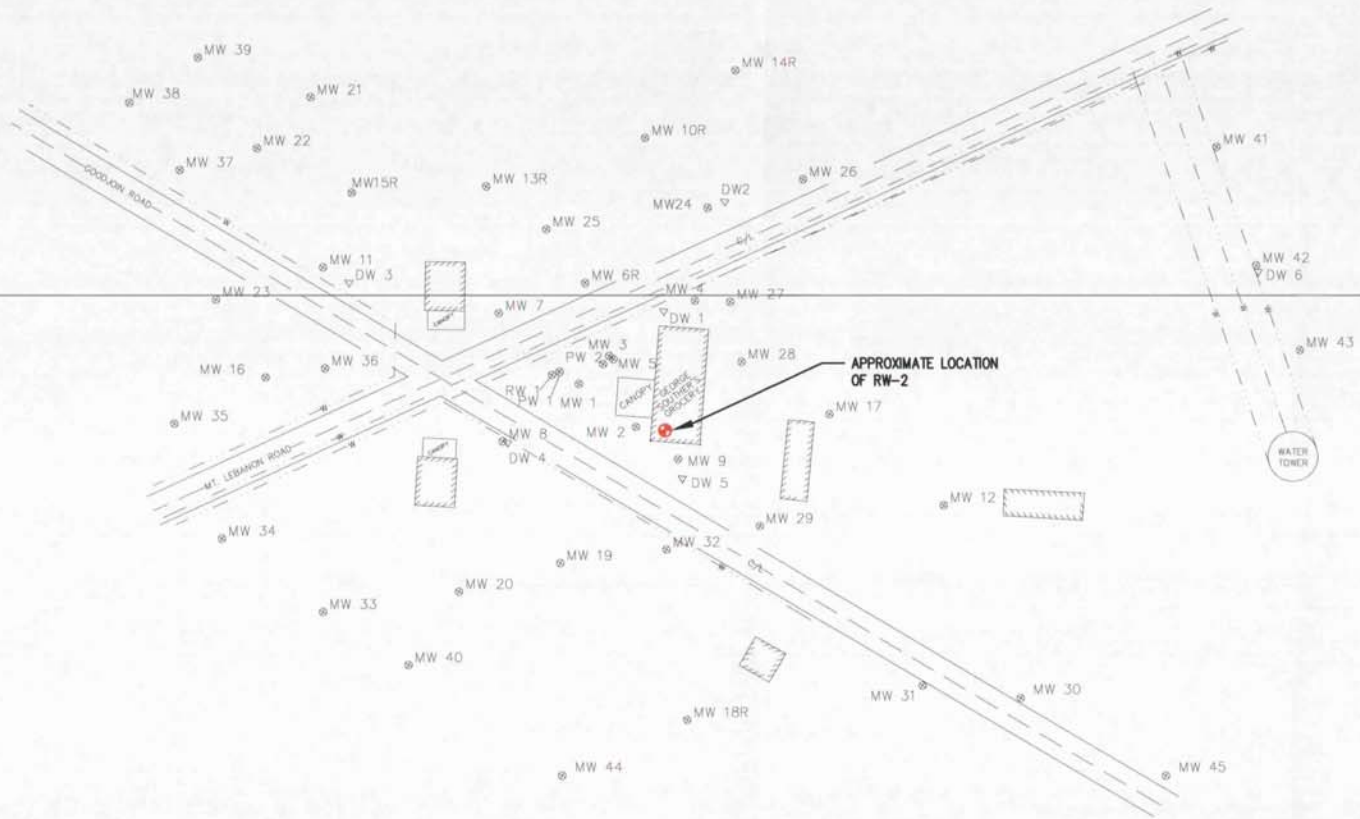
FIGURES



1 .5 0 KILOMETERS 1
1000 0 METERS 1000

REFERENCE:
USGS TOPOGRAPHIC MAP, 7.5 MINUTE SERIES, CAMPOBELLO, S.C. QUADRANGLE, 1983.

DRAWN: ACE	DATE: 07-12-10	BLE inc. BUNNELL-LAMMONS ENGINEERING, INC. 6004 PONDERS COURT GREENVILLE, SOUTH CAROLINA 29615 PHONE: (864)288-1265 FAX: (864)288-4430	SITE LOCATION MAP GEORGE SOUTHERS GROCERY UST PERMIT #08650 CAMPOBELLO, SOUTH CAROLINA	FIGURE 1
CHECKED: TJB	CAD: GEORGESOUGR-SLM			
APPROVED:	JOB NO: J10-7051-01			



LEGEND

- EXISTING GROUNDWATER MONITORING WELL
- EXISTING DEEP GROUNDWATER MONITORING WELL
- SURVEYED LOCATION OF NEW RECOVERY WELL

100 50 0 100 200

APPROXIMATE SCALE IN FEET

REFEENCE:
DRAWING TITLED "ENVIRONMENTAL SURVEY PREPARED FOR GEORGE SOUTHER'S GROCERY" BY BAXTER LAND SURVEYING CO., INC. DATED DECEMBER 16, 2005 AND CONSULTECH ENVIRONMENTAL, INC., 1800 MACLEOD DRIVE, SUITE F, LAWRENCEVILLE, GEORGIA 30043.

DRAWN BY:	ACE	DATE:	09-23-10
CHECKED BY:	TJB	FILE:	GEORGESOUGR-WLP
APPROVED BY:		JOB NO:	J10-7051-02

REVISIONS		
No.	DESCRIPTION	BY

BLE INC.
BURNELL-LAMMONS ENGINEERING, INC.
8004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615
PHONE: (864)288-1285 FAX: (864)288-4430

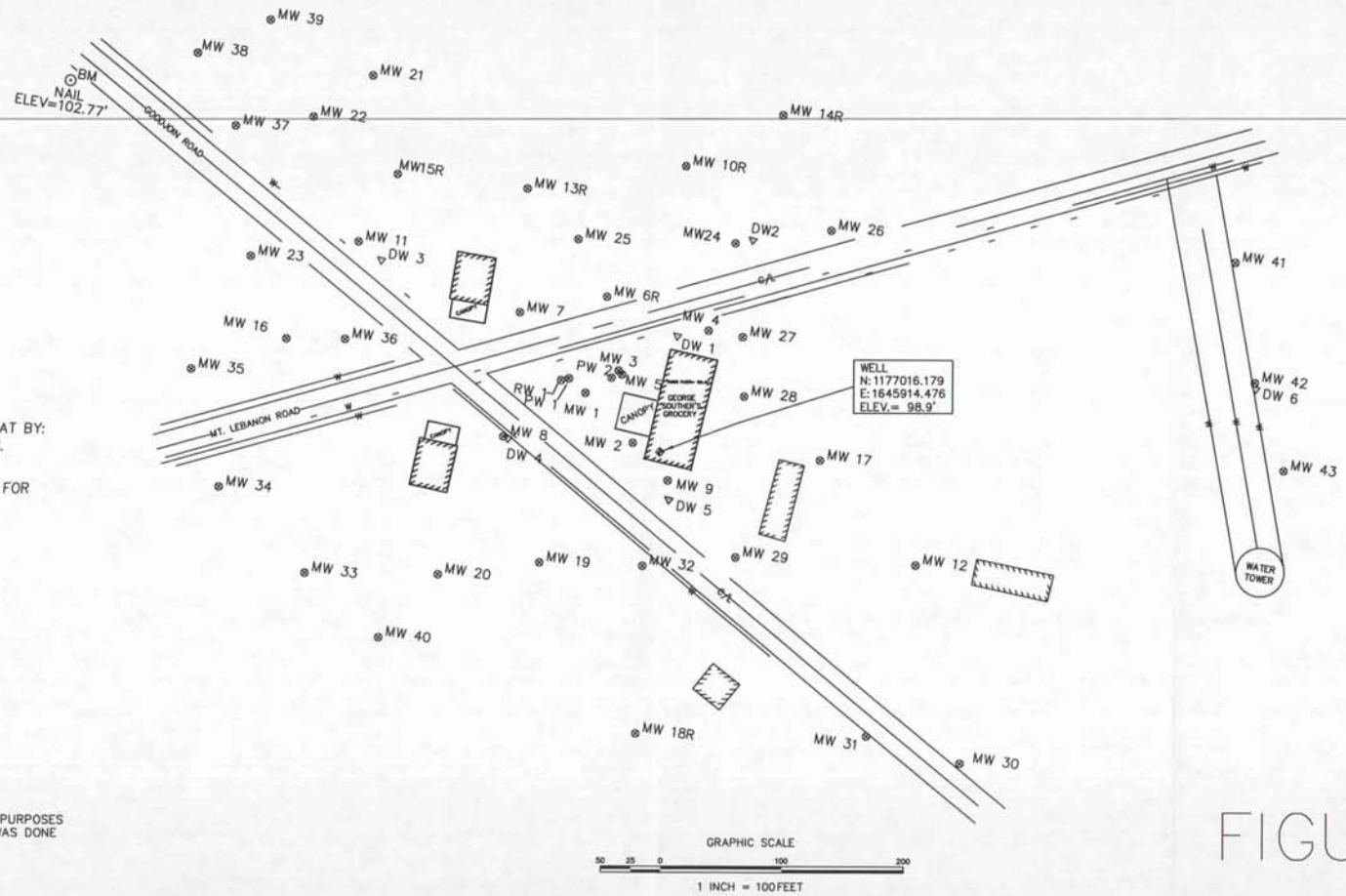
WELL LOCATION PLAN
GEORGE SOUTHER'S GROCERY
UST PERMIT #08650
CAMPBOBELLO, SOUTH CAROLINA

FIGURE
2

SOUTHER
LAND SURVEYING

10253 ASHEVILLE HWY.
INMAN, SC 29349
864-473-1240

SITE SURVEY FOR:
BUNNELL-LAMMONS
ENGINEERING, INC.
SPARTANBURG, SOUTH CAROLINA
01 OCTOBER 2010



NOTE: BASE DRAWING TAKEN FROM PLAT BY:
BAXTER LAND SURVEYING CO., INC.
533 HARDEN STREET COLUMBIA, SC 29205
803-252-8564

ENVIRONMENTAL SURVEY PREPARED FOR
GEORGE SOUTHER'S GROCERY
280 GOODJOIN ROAD
CAMPOBELLO, SC 29322
SPARTANBURG COUNTY
DECEMBER 16, 2005

THIS PLAT FOR LOCATION PURPOSES ONLY. NO LAND SURVEY WAS DONE AT THIS TIME.

GRAPHIC SCALE
50 25 0 100 200
1 INCH = 100FEET

FIGURE 3

APPENDICES

APPENDIX A

WASTE TRANSPORTATION AND DISPOSAL RECORDS

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CESQG

Manifest Document No.: 07132410

2. Page 1 of

3. Generator's Name and Mailing Address: BRIAR PATCH AT LITTLE CHICAGO
280 GOODJOIN RD
CAMPABELLO, SC 29322

4. Generator's Phone ( )

5. Transporter 1 Company Name: ADVANCED ENVIRONMENTAL OPTIONS

6. US EPA ID Number: SCR 000 074 575

A. State Transporter's ID

B. Transporter 1 Phone: 864-488-9111

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address:
ADVANCED ENVIRONMENTAL OPTIONS INC
25 STAN PERKINS RD
SPARTANBURG SC 29307

10. US EPA ID Number: SCR 000 074 575

E. State Facility's ID

F. Facility's Phone: 864-488-9111

GENERATOR

11. WASTE DESCRIPTION	Containers No.	Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON DOT / NON RCRA REGULATED MATERIALS (PURGE WATER)	1	TT	580 ~~1500~~	G
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

580 Gal

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: JOHN HORNER | Signature | Date: Month 07 Day 13 Year 10

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Mark Sea | Signature | Date: Month 07 Day 13 Year 10

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: Kim McGuinnett | Signature | Date: Month 7 Day 13 Year 10

NON-HAZARDOUS WASTE

CF14 © 2002 LABELMASTER® (800) 621-5808 www.labelmaster.com

PRINTED ON RECYCLED PAPER USING SOYBEAN INK PRINTED WITH SOY INK

APPENDIX B

RECOVERY WELL INSTALLATION LOG AND SCDHEC 1903 WELL RECORD

BLE INC.

BUNNELL-LAMMONS ENGINEERING, INC.

GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

RECOVERY WELL NO. RW-2

PROJECT: George Souther's Grocery — PROJECT NO.: J10-7051-02

CLIENT: George Souther — START: 7-13-10 END: 7-13-10

LOCATION: Campobello, South Carolina — ELEVATION:

DRILLER: Landprobe, M. Burnett — LOGGED BY: T. Benton

DRILLING METHOD: Manual Installation

DEPTH TO - WATER> INITIAL: 17.95 AFTER 24 HOURS: 16.83 CAVING>

ELEVATION/ DEPTH (FT)	DESCRIPTION	SOIL TYPE	RECOVERY WELL INSTALLATION DETAILS
5			Cement, 0 to 11 feet
			1-inch diameter petroleum-rated drop tube installed inside 4-inch well to 21 feet
10			Bentonite seal, 11 to 12.7 feet
			Filter pack, #4 pea gravel 12.7 to 29.5 feet
15	Lithology unknown - existing five-foot diameter hand dug well converted into 4-inch diameter recovery well		
			0.25-inch diameter holes drilled in drop tube to 17 feet
20			
			4-inch diameter, 0.010-inch slotted Schedule 40 PVC well screen, 15.3 to 29.3 feet
25			
			5-foot diameter well borehole
30	Well installed to 29.5 feet. Groundwater encountered at 17.95 feet at time of installation and at 16.83 feet after 24 hours.		Pipe cap
			Total well depth, 29.5 feet
			Top of casing elev. = 98.9 feet
			Northing = 1,177,016.179'
35			Easting = 1,645,914.476'
			Elevation is relative to an arbitrary site datum

RECOV_WELL.NB 7051-02.GPJ 10/8/10

RW-2

DHEC
PROMOTE PROTECT PROSPER

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

1. Name: SOUTHER (last) GEORGE (first)

Address: 280 GOODJOIN RD

City: CAMPOBELLO State: SC zip: 29322

Phone: Work:
Home:

2. Location of Well: County:
Name: George Southers Grocery
Address: 280 Goodjoin Rd.
City: Campobello S.C zip:

Latitude: Longitude:

3. Public System Name: Public System Number:

4. Abandonment: (yes/no)

Grouted Depth: from to ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum
WELL RETROFIT.		
NO SAMPLES COLLECTED		

5. Remarks: Already there we put pipe in existing Boring.

6. Type:

Mud Rotary	Jetted	Bored
Dug	Air Rotary xxx	Driven
Cable tool	Auger	

7. Permit Number: UST PERMIT #08650

8. Use: RECOVERY WELL

Residential	Public Supply	Process
Irrigation	Air Conditioning	Emergency
Test Well	Monitor Well	Replacement

9. Well Depth (completed) 29.5' ft. Date Started: 7/13/10 Date Completed: 7/14/10

10. Casing: Threaded Welded
Diameter: 4"
Type: PVC
0 in. to 14' ft. depth
in. to ft. depth
Height:
Surface: ft. Weight: lb./ft.
Drive Shoe:

11. Screen:
Type: PVC Diameter: 4"
Slot/Gauge: 10 Length: 14'
Set Between: 15.5 ft. and 29.5' ft.
ft. and ft.
Sieve Analysis:

12. Static Water Level: na ft. below land surface after 24 hours

13. Pumping Level below land surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield: gpm

14. Water Quality:
Chemical Analysis: No Bacterial Analysis: No

15. Artificial Filter (filter pack) Y/N YES.
Installed from: 29.5' ft. to 13' ft.
Effective Size: #4 Uniformity Coefficient

16. Well Grouted? Concrete.

Neat Cement		Bentonite/Cement	other

Depth: 0 ft. to 11' ft.

17. Nearest Source of Possible Contamination: ft. direction
Type:
Well disinfected No Type: Amount:

18. Pump: Date installed: N/A
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:

Submersible	Jet (shallow)	Turbine
Jet (deep)	Reciprocating	Centrifugal

19. Well Driller Marshall Burnett 1671
Address: 6004 Ponders Court Level C
Greenville SC 29615

Telephone: 864-527-9324 Fax: 864-288-4430

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.

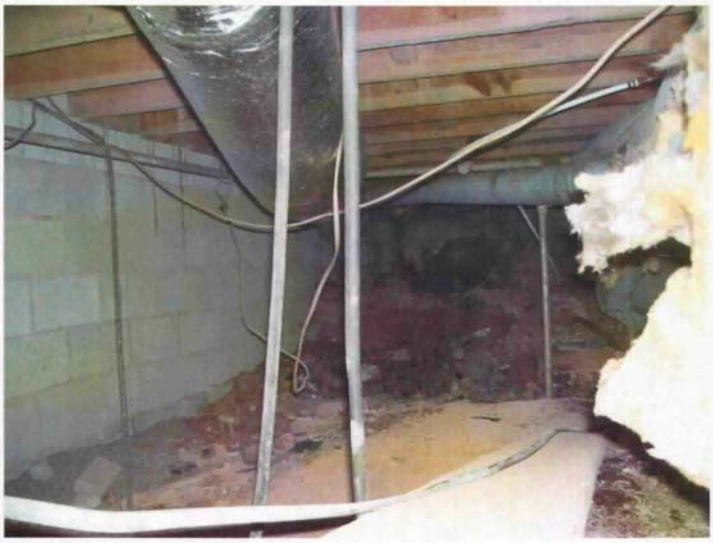
Signed: Marshall M. Burnett.

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

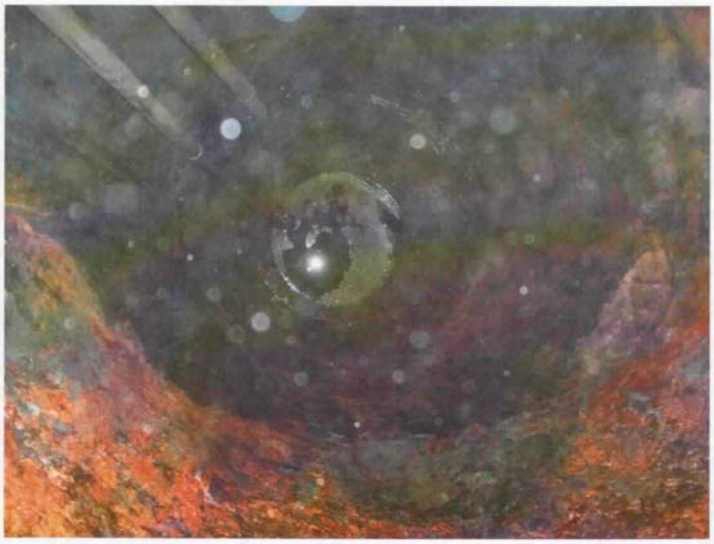
APPENDIX C

PHOTOGRAPHS

Photograph 1: Crawl space entry point to access water supply well



Photograph 2: Location of out-of-service water supply well in the crawl space. Please note: The well is located to the left of the BLE personnel shown in the background.



Photograph 3: Looking down into the five-foot diameter hand dug water supply well.

Photograph 4: Entry point through the rear exterior wall of the store. The recovery well filter pack sand is currently being installed in this photograph. Note the ventilation hoses used to remove excess dust and vapors from the crawlspace.

Photograph 5: Pumping concrete into the water supply well

Photograph 6: Installation of the drop tube conduit to the exterior of the crawl space. The conduit is two-inch diameter pipe which connects to the four-inch diameter recovery well.

Photograph 7: Drop tube conduit and the dedicated flexible drop tube. The conduit and drop tube will be extended to the exterior of the store upon authorization of future AFVR events.

Photograph 8: Completion of the project and repair of the exterior block wall.

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
2225 Riverside Dr.
Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

January 03, 2008

RECEIVED
JAN 09 2008
UNDERGROUND STORAGE
TANK PROGRAM

Ms. Debra Thoma
SCDHEC
UST Program
2600 Bull Street
Columbia, SC 29201

RE: Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

Dear Ms. Thoma:
Enclosed are the analytical results for sample(s) received by the laboratory on December 19, 2007. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Herring

Kevin Herring

kevin.herring@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

UST PROGRAM
DOCKETING # 2

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
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Asheville, NC 28804
(828)254-7176

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

Charlotte Certification IDs

North Carolina Drinking Water Certification Number: 37706
North Carolina Wastewater Certification Number: 12
North Carolina Field Services Certification Number: 5342
South Carolina Certification Number: 990060001
South Carolina Bioassay Certification Number: 990060003
Tennessee Certification Number: 04010
Virginia Certification Number: 00213
Florida/NELAP Certification Number: E87627
Kansas Certification Number: E-10364
Louisiana/LELAP Certification Number: 04034

Asheville Certification IDs

Florida/NELAP Certification Number: E87648
Louisiana/LELAP Certification Number: 03095
New Jersey Certification Number: NC011
North Carolina Drinking Water Certification Number: 37712
North Carolina Wastewater Certification Number: 40
North Carolina Bioassay Certification Number: 9
Pennsylvania Certification Number: 68-03578
South Carolina Certification Number: 99030001
South Carolina Bioassay Certification Number: 99030002
Tennessee Certification Number: 2980
Virginia Certification Number: 00072

Eden Certification IDs

North Carolina Drinking Water Certification Number: 37738
Virginia Drinking Water Certification Number: 00424
North Carolina Wastewater Certification Number: 633

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ANALYTICAL RESULTS

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

Sample: MW-4 **Lab ID: 9210167001** Collected: 12/17/07 12:05 Received: 12/19/07 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	12/20/07 00:00	12/20/07 21:41	106-93-4	
1-Chloro-2-bromopropane (S)	107	%	60-140	1	12/20/07 00:00	12/20/07 21:41	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	1		12/20/07 02:56	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		12/20/07 02:56	994-05-8	
Benzene	ND	ug/L	5.0	1		12/20/07 02:56	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		12/20/07 02:56	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		12/20/07 02:56	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		12/20/07 02:56	762-75-4	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/20/07 02:56	106-93-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/20/07 02:56	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		12/20/07 02:56	108-20-3	
Ethanol	ND	ug/L	200	1		12/20/07 02:56	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		12/20/07 02:56	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		12/20/07 02:56	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		12/20/07 02:56	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/20/07 02:56	91-20-3	
Toluene	ND	ug/L	5.0	1		12/20/07 02:56	108-88-3	
Xylene (Total)	ND	ug/L	10.0	1		12/20/07 02:56	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		12/20/07 02:56	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		12/20/07 02:56	95-47-6	
Dibromofluoromethane (S)	103	%	85-115	1		12/20/07 02:56	1868-53-7	
Toluene-d8 (S)	100	%	70-120	1		12/20/07 02:56	2037-26-5	
4-Bromofluorobenzene (S)	93	%	87-109	1		12/20/07 02:56	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	79-120	1		12/20/07 02:56	17060-07-0	

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ANALYTICAL RESULTS

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

Sample: MW-14R **Lab ID: 9210167002** Collected: 12/17/07 15:45 Received: 12/19/07 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	12/20/07 00:00	12/20/07 22:36	106-93-4	
1-Chloro-2-bromopropane (S)	97	%	60-140	1	12/20/07 00:00	12/20/07 22:36	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	1		12/20/07 03:14	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		12/20/07 03:14	994-05-8	
Benzene	ND	ug/L	5.0	1		12/20/07 03:14	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		12/20/07 03:14	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		12/20/07 03:14	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		12/20/07 03:14	762-75-4	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/20/07 03:14	106-93-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/20/07 03:14	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		12/20/07 03:14	108-20-3	
Ethanol	ND	ug/L	200	1		12/20/07 03:14	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		12/20/07 03:14	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		12/20/07 03:14	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		12/20/07 03:14	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/20/07 03:14	91-20-3	
Toluene	ND	ug/L	5.0	1		12/20/07 03:14	108-88-3	
Xylene (Total)	ND	ug/L	10.0	1		12/20/07 03:14	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		12/20/07 03:14	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		12/20/07 03:14	95-47-6	
Dibromofluoromethane (S)	102	%	85-115	1		12/20/07 03:14	1868-53-7	
Toluene-d8 (S)	96	%	70-120	1		12/20/07 03:14	2037-26-5	
4-Bromofluorobenzene (S)	93	%	87-109	1		12/20/07 03:14	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	79-120	1		12/20/07 03:14	17060-07-0	

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ANALYTICAL RESULTS

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

Sample: MW-17 **Lab ID: 9210167003** Collected: 12/17/07 10:35 Received: 12/19/07 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	12/20/07 00:00	12/20/07 23:04	106-93-4	
1-Chloro-2-bromopropane (S)	91	%	60-140	1	12/20/07 00:00	12/20/07 23:04	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	1		12/20/07 03:31	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		12/20/07 03:31	994-05-8	
Benzene	ND	ug/L	5.0	1		12/20/07 03:31	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		12/20/07 03:31	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		12/20/07 03:31	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		12/20/07 03:31	762-75-4	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/20/07 03:31	106-93-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/20/07 03:31	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		12/20/07 03:31	108-20-3	
Ethanol	ND	ug/L	200	1		12/20/07 03:31	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		12/20/07 03:31	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		12/20/07 03:31	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		12/20/07 03:31	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/20/07 03:31	91-20-3	
Toluene	ND	ug/L	5.0	1		12/20/07 03:31	108-88-3	
Xylene (Total)	ND	ug/L	10.0	1		12/20/07 03:31	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		12/20/07 03:31	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		12/20/07 03:31	95-47-6	
Dibromofluoromethane (S)	99	%	85-115	1		12/20/07 03:31	1868-53-7	
Toluene-d8 (S)	101	%	70-120	1		12/20/07 03:31	2037-26-5	
4-Bromofluorobenzene (S)	91	%	87-109	1		12/20/07 03:31	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	79-120	1		12/20/07 03:31	17060-07-0	

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ANALYTICAL RESULTS

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

Sample: MW-24 **Lab ID: 9210167004** Collected: 12/17/07 16:45 Received: 12/19/07 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	12/20/07 00:00	12/20/07 23:22	106-93-4	
1-Chloro-2-bromopropane (S)	93	%	60-140	1	12/20/07 00:00	12/20/07 23:22	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	1		12/20/07 03:48	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		12/20/07 03:48	994-05-8	
Benzene	ND	ug/L	5.0	1		12/20/07 03:48	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		12/20/07 03:48	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		12/20/07 03:48	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		12/20/07 03:48	762-75-4	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/20/07 03:48	106-93-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/20/07 03:48	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		12/20/07 03:48	108-20-3	
Ethanol	ND	ug/L	200	1		12/20/07 03:48	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		12/20/07 03:48	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		12/20/07 03:48	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		12/20/07 03:48	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/20/07 03:48	91-20-3	
Toluene	ND	ug/L	5.0	1		12/20/07 03:48	108-88-3	
Xylene (Total)	ND	ug/L	10.0	1		12/20/07 03:48	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		12/20/07 03:48	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		12/20/07 03:48	95-47-6	
Dibromofluoromethane (S)	102	%	85-115	1		12/20/07 03:48	1868-53-7	
Toluene-d8 (S)	101	%	70-120	1		12/20/07 03:48	2037-26-5	
4-Bromofluorobenzene (S)	94	%	87-109	1		12/20/07 03:48	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	79-120	1		12/20/07 03:48	17060-07-0	

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ANALYTICAL RESULTS

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

Sample: MW-26 **Lab ID: 9210167005** Collected: 12/17/07 15:55 Received: 12/19/07 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	12/20/07 00:00	12/20/07 23:31	106-93-4	
1-Chloro-2-bromopropane (S)	75	%	60-140	1	12/20/07 00:00	12/20/07 23:31	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260							
tert-Amyl Alcohol	**151**	ug/L	100	1		12/20/07 17:12	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		12/20/07 17:12	994-05-8	
Benzene	ND	ug/L	5.0	1		12/20/07 17:12	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		12/20/07 17:12	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		12/20/07 17:12	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		12/20/07 17:12	762-75-4	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/20/07 17:12	106-93-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/20/07 17:12	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		12/20/07 17:12	108-20-3	
Ethanol	ND	ug/L	200	1		12/20/07 17:12	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		12/20/07 17:12	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		12/20/07 17:12	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		12/20/07 17:12	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/20/07 17:12	91-20-3	
Toluene	ND	ug/L	5.0	1		12/20/07 17:12	108-88-3	
Xylene (Total)	ND	ug/L	10.0	1		12/20/07 17:12	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		12/20/07 17:12	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		12/20/07 17:12	95-47-6	
Dibromofluoromethane (S)	104	%	85-115	1		12/20/07 17:12	1868-53-7	
Toluene-d8 (S)	96	%	70-120	1		12/20/07 17:12	2037-26-5	
4-Bromofluorobenzene (S)	94	%	87-109	1		12/20/07 17:12	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	79-120	1		12/20/07 17:12	17060-07-0	

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ANALYTICAL RESULTS

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

Sample: MW-28 **Lab ID: 9210167006** Collected: 12/17/07 12:20 Received: 12/19/07 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	12/20/07 00:00	12/20/07 23:40	106-93-4	
1-Chloro-2-bromopropane (S)	85	%	60-140	1	12/20/07 00:00	12/20/07 23:40	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	5000	50		12/20/07 18:45	75-85-4	
tert-Amylmethyl ether	ND	ug/L	500	50		12/20/07 18:45	994-05-8	
Benzene	ND	ug/L	250	50		12/20/07 18:45	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	5000	50		12/20/07 18:45	624-95-3	
tert-Butyl Alcohol	ND	ug/L	5000	50		12/20/07 18:45	75-65-0	
tert-Butyl Formate	ND	ug/L	2500	50		12/20/07 18:45	762-75-4	
1,2-Dibromoethane (EDB)	ND	ug/L	250	50		12/20/07 18:45	106-93-4	
1,2-Dichloroethane	ND	ug/L	250	50		12/20/07 18:45	107-06-2	
Diisopropyl ether	ND	ug/L	250	50		12/20/07 18:45	108-20-3	
Ethanol	ND	ug/L	10000	50		12/20/07 18:45	64-17-5	
Ethylbenzene	**2520**	ug/L	250	50		12/20/07 18:45	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	500	50		12/20/07 18:45	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	250	50		12/20/07 18:45	1634-04-4	
Naphthalene	**907**	ug/L	250	50		12/20/07 18:45	91-20-3	
Toluene	**7780**	ug/L	250	50		12/20/07 18:45	108-88-3	
Xylene (Total)	**13900**	ug/L	500	50		12/20/07 18:45	1330-20-7	
m&p-Xylene	**9420**	ug/L	500	50		12/20/07 18:45	1330-20-7	
o-Xylene	**4200**	ug/L	250	50		12/20/07 18:45	95-47-6	
Dibromofluoromethane (S)	101	%	85-115	50		12/20/07 18:45	1868-53-7	
Toluene-d8 (S)	101	%	70-120	50		12/20/07 18:45	2037-26-5	
4-Bromofluorobenzene (S)	94	%	87-109	50		12/20/07 18:45	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	79-120	50		12/20/07 18:45	17060-07-0	

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ANALYTICAL RESULTS

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

Sample: MW-29 **Lab ID: 9210167007** Collected: 12/17/07 10:15 Received: 12/19/07 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	**382**	ug/L	8.0	400	12/20/07 00:00	12/27/07 13:18	106-93-4	
1-Chloro-2-bromopropane (S)	0	%	60-140	400	12/20/07 00:00	12/27/07 13:18	301-79-56	S4
8260 MSV Oxygenates	Analytical Method: EPA 8260							
tert-Amyl Alcohol	**43000**	ug/L	5000	50		12/20/07 19:05	75-85-4	
tert-Amylmethyl ether	ND	ug/L	500	50		12/20/07 19:05	994-05-8	
Benzene	**21900**	ug/L	1250	250		12/21/07 13:27	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	5000	50		12/20/07 19:05	624-95-3	
tert-Butyl Alcohol	ND	ug/L	5000	50		12/20/07 19:05	75-65-0	
tert-Butyl Formate	ND	ug/L	2500	50		12/20/07 19:05	762-75-4	
1,2-Dibromoethane (EDB)	**521**	ug/L	250	50		12/20/07 19:05	106-93-4	
1,2-Dichloroethane	**1180**	ug/L	250	50		12/20/07 19:05	107-06-2	
Diisopropyl ether	**8970**	ug/L	250	50		12/20/07 19:05	108-20-3	
Ethanol	ND	ug/L	10000	50		12/20/07 19:05	64-17-5	
Ethylbenzene	**1780**	ug/L	250	50		12/20/07 19:05	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	500	50		12/20/07 19:05	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	250	50		12/20/07 19:05	1634-04-4	
Naphthalene	**1080**	ug/L	250	50		12/20/07 19:05	91-20-3	
Toluene	**20600**	ug/L	1250	250		12/21/07 13:27	108-88-3	
Xylene (Total)	**9470**	ug/L	500	50		12/20/07 19:05	1330-20-7	
m&p-Xylene	**6230**	ug/L	500	50		12/20/07 19:05	1330-20-7	
o-Xylene	**3280**	ug/L	250	50		12/20/07 19:05	95-47-6	
Dibromofluoromethane (S)	99	%	85-115	50		12/20/07 19:05	1868-53-7	
Toluene-d8 (S)	101	%	70-120	50		12/20/07 19:05	2037-26-5	
4-Bromofluorobenzene (S)	93	%	87-109	50		12/20/07 19:05	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	79-120	50		12/20/07 19:05	17060-07-0	

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ANALYTICAL RESULTS

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

Sample: MW-41 **Lab ID: 9210167008** Collected: 12/17/07 14:55 Received: 12/19/07 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	12/20/07 00:00	12/20/07 23:59	106-93-4	
1-Chloro-2-bromopropane (S)	88	%	60-140	1	12/20/07 00:00	12/20/07 23:59	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	1		12/20/07 04:06	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		12/20/07 04:06	994-05-8	
Benzene	ND	ug/L	5.0	1		12/20/07 04:06	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		12/20/07 04:06	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		12/20/07 04:06	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		12/20/07 04:06	762-75-4	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/20/07 04:06	106-93-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/20/07 04:06	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		12/20/07 04:06	108-20-3	
Ethanol	ND	ug/L	200	1		12/20/07 04:06	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		12/20/07 04:06	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		12/20/07 04:06	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		12/20/07 04:06	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/20/07 04:06	91-20-3	
Toluene	ND	ug/L	5.0	1		12/20/07 04:06	108-88-3	
Xylene (Total)	ND	ug/L	10.0	1		12/20/07 04:06	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		12/20/07 04:06	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		12/20/07 04:06	95-47-6	
Dibromofluoromethane (S)	103	%	85-115	1		12/20/07 04:06	1868-53-7	
Toluene-d8 (S)	100	%	70-120	1		12/20/07 04:06	2037-26-5	
4-Bromofluorobenzene (S)	93	%	87-109	1		12/20/07 04:06	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	79-120	1		12/20/07 04:06	17060-07-0	

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ANALYTICAL RESULTS

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

Sample: MW-42 **Lab ID: 9210167009** Collected: 12/17/07 14:40 Received: 12/19/07 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	12/20/07 00:00	12/21/07 00:08	106-93-4	
1-Chloro-2-bromopropane (S)	91	%	60-140	1	12/20/07 00:00	12/21/07 00:08	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	1		12/20/07 17:30	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		12/20/07 17:30	994-05-8	
Benzene	ND	ug/L	5.0	1		12/20/07 17:30	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		12/20/07 17:30	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		12/20/07 17:30	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		12/20/07 17:30	762-75-4	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/20/07 17:30	106-93-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/20/07 17:30	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		12/20/07 17:30	108-20-3	
Ethanol	ND	ug/L	200	1		12/20/07 17:30	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		12/20/07 17:30	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		12/20/07 17:30	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		12/20/07 17:30	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/20/07 17:30	91-20-3	
Toluene	ND	ug/L	5.0	1		12/20/07 17:30	108-88-3	
Xylene (Total)	ND	ug/L	10.0	1		12/20/07 17:30	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		12/20/07 17:30	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		12/20/07 17:30	95-47-6	
Dibromofluoromethane (S)	106	%	85-115	1		12/20/07 17:30	1868-53-7	
Toluene-d8 (S)	99	%	70-120	1		12/20/07 17:30	2037-26-5	
4-Bromofluorobenzene (S)	93	%	87-109	1		12/20/07 17:30	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	79-120	1		12/20/07 17:30	17060-07-0	

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ANALYTICAL RESULTS

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

Sample: MW-43 **Lab ID: 9210167010** Collected: 12/17/07 14:30 Received: 12/19/07 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	12/20/07 00:00	12/21/07 00:17	106-93-4	
1-Chloro-2-bromopropane (S)	100	%	60-140	1	12/20/07 00:00	12/21/07 00:17	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	1		12/20/07 04:23	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		12/20/07 04:23	994-05-8	
Benzene	ND	ug/L	5.0	1		12/20/07 04:23	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		12/20/07 04:23	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		12/20/07 04:23	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		12/20/07 04:23	762-75-4	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/20/07 04:23	106-93-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/20/07 04:23	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		12/20/07 04:23	108-20-3	
Ethanol	ND	ug/L	200	1		12/20/07 04:23	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		12/20/07 04:23	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		12/20/07 04:23	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		12/20/07 04:23	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/20/07 04:23	91-20-3	
Toluene	ND	ug/L	5.0	1		12/20/07 04:23	108-88-3	
Xylene (Total)	ND	ug/L	10.0	1		12/20/07 04:23	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		12/20/07 04:23	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		12/20/07 04:23	95-47-6	
Dibromofluoromethane (S)	103	%	85-115	1		12/20/07 04:23	1868-53-7	
Toluene-d8 (S)	101	%	70-120	1		12/20/07 04:23	2037-26-5	
4-Bromofluorobenzene (S)	91	%	87-109	1		12/20/07 04:23	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	79-120	1		12/20/07 04:23	17060-07-0	

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ANALYTICAL RESULTS

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

Sample: PW-1 **Lab ID: 9210167011** Collected: 12/17/07 13:45 Received: 12/19/07 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	12/20/07 00:00	12/21/07 00:27	106-93-4	
1-Chloro-2-bromopropane (S)	96	%	60-140	1	12/20/07 00:00	12/21/07 00:27	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	1		12/20/07 04:40	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		12/20/07 04:40	994-05-8	
Benzene	**7.0**	ug/L	5.0	1		12/20/07 04:40	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		12/20/07 04:40	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		12/20/07 04:40	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		12/20/07 04:40	762-75-4	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/20/07 04:40	106-93-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/20/07 04:40	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		12/20/07 04:40	108-20-3	
Ethanol	ND	ug/L	200	1		12/20/07 04:40	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		12/20/07 04:40	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		12/20/07 04:40	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		12/20/07 04:40	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/20/07 04:40	91-20-3	
Toluene	ND	ug/L	5.0	1		12/20/07 04:40	108-88-3	
Xylene (Total)	ND	ug/L	10.0	1		12/20/07 04:40	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		12/20/07 04:40	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		12/20/07 04:40	95-47-6	
Dibromofluoromethane (S)	101	%	85-115	1		12/20/07 04:40	1868-53-7	
Toluene-d8 (S)	100	%	70-120	1		12/20/07 04:40	2037-26-5	
4-Bromofluorobenzene (S)	90	%	87-109	1		12/20/07 04:40	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	79-120	1		12/20/07 04:40	17060-07-0	

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ANALYTICAL RESULTS

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

Sample: PW-2 **Lab ID: 9210167012** Collected: 12/17/07 13:00 Received: 12/19/07 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	**0.069**	ug/L	0.020	1	12/20/07 00:00	12/21/07 00:54	106-93-4	
1-Chloro-2-bromopropane (S)	88	%	60-140	1	12/20/07 00:00	12/21/07 00:54	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	1		12/20/07 04:58	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		12/20/07 04:58	994-05-8	
Benzene	ND	ug/L	5.0	1		12/20/07 04:58	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		12/20/07 04:58	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		12/20/07 04:58	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		12/20/07 04:58	762-75-4	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/20/07 04:58	106-93-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/20/07 04:58	107-06-2	
Diisopropyl ether	**86.7**	ug/L	5.0	1		12/20/07 04:58	108-20-3	
Ethanol	ND	ug/L	200	1		12/20/07 04:58	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		12/20/07 04:58	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		12/20/07 04:58	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		12/20/07 04:58	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/20/07 04:58	91-20-3	
Toluene	ND	ug/L	5.0	1		12/20/07 04:58	108-88-3	
Xylene (Total)	ND	ug/L	10.0	1		12/20/07 04:58	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		12/20/07 04:58	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		12/20/07 04:58	95-47-6	
Dibromofluoromethane (S)	104	%	85-115	1		12/20/07 04:58	1868-53-7	
Toluene-d8 (S)	101	%	70-120	1		12/20/07 04:58	2037-26-5	
4-Bromofluorobenzene (S)	94	%	87-109	1		12/20/07 04:58	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	79-120	1		12/20/07 04:58	17060-07-0	

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ANALYTICAL RESULTS

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

Sample: DW-1 **Lab ID: 9210167013** Collected: 12/17/07 11:50 Received: 12/19/07 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	**0.15**	ug/L	0.020	1	12/20/07 00:00	12/21/07 01:03	106-93-4	
1-Chloro-2-bromopropane (S)	96	%	60-140	1	12/20/07 00:00	12/21/07 01:03	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260							
tert-Amyl Alcohol	**739**	ug/L	100	1		12/20/07 18:01	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		12/20/07 18:01	994-05-8	
Benzene	**103**	ug/L	5.0	1		12/20/07 18:01	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		12/20/07 18:01	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		12/20/07 18:01	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		12/20/07 18:01	762-75-4	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/20/07 18:01	106-93-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/20/07 18:01	107-06-2	
Diisopropyl ether	**298**	ug/L	50.0	10		12/22/07 05:27	108-20-3	
Ethanol	ND	ug/L	200	1		12/20/07 18:01	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		12/20/07 18:01	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		12/20/07 18:01	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		12/20/07 18:01	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/20/07 18:01	91-20-3	
Toluene	ND	ug/L	5.0	1		12/20/07 18:01	108-88-3	
Xylene (Total)	ND	ug/L	10.0	1		12/20/07 18:01	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		12/20/07 18:01	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		12/20/07 18:01	95-47-6	
Dibromofluoromethane (S)	94	%	85-115	1		12/20/07 18:01	1868-53-7	
Toluene-d8 (S)	100	%	70-120	1		12/20/07 18:01	2037-26-5	
4-Bromofluorobenzene (S)	101	%	87-109	1		12/20/07 18:01	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	79-120	1		12/20/07 18:01	17060-07-0	

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ANALYTICAL RESULTS

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

Sample: DW-2 **Lab ID: 9210167014** Collected: 12/17/07 16:30 Received: 12/19/07 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	12/20/07 00:00	12/21/07 01:13	106-93-4	
1-Chloro-2-bromopropane (S)	86	%	60-140	1	12/20/07 00:00	12/21/07 01:13	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260							
tert-Amyl Alcohol	**329**	ug/L	100	1		12/20/07 17:47	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		12/20/07 17:47	994-05-8	
Benzene	**236**	ug/L	25.0	5		12/21/07 12:29	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		12/20/07 17:47	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		12/20/07 17:47	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		12/20/07 17:47	762-75-4	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/20/07 17:47	106-93-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/20/07 17:47	107-06-2	
Diisopropyl ether	**122**	ug/L	5.0	1		12/20/07 17:47	108-20-3	
Ethanol	ND	ug/L	200	1		12/20/07 17:47	64-17-5	
Ethylbenzene	**32.7**	ug/L	5.0	1		12/20/07 17:47	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		12/20/07 17:47	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		12/20/07 17:47	1634-04-4	
Naphthalene	**10.3**	ug/L	5.0	1		12/20/07 17:47	91-20-3	
Toluene	**106**	ug/L	5.0	1		12/20/07 17:47	108-88-3	
Xylene (Total)	**215**	ug/L	10.0	1		12/20/07 17:47	1330-20-7	
m&p-Xylene	**118**	ug/L	10.0	1		12/20/07 17:47	1330-20-7	
o-Xylene	**85.9**	ug/L	5.0	1		12/20/07 17:47	95-47-6	
Dibromofluoromethane (S)	106	%	85-115	1		12/20/07 17:47	1868-53-7	
Toluene-d8 (S)	100	%	70-120	1		12/20/07 17:47	2037-26-5	
4-Bromofluorobenzene (S)	95	%	87-109	1		12/20/07 17:47	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	79-120	1		12/20/07 17:47	17060-07-0	

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ANALYTICAL RESULTS

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

Sample: DW-5 **Lab ID: 9210167015** Collected: 12/17/07 11:00 Received: 12/19/07 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	12/20/07 00:00	12/21/07 01:22	106-93-4	
1-Chloro-2-bromopropane (S)	90	%	60-140	1	12/20/07 00:00	12/21/07 01:22	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260							
tert-Amyl Alcohol	**756**	ug/L	500	5		12/26/07 17:15	75-85-4	
tert-Amylmethyl ether	ND	ug/L	50.0	5		12/26/07 17:15	994-05-8	
Benzene	**939**	ug/L	25.0	5		12/26/07 17:15	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	500	5		12/26/07 17:15	624-95-3	
tert-Butyl Alcohol	ND	ug/L	500	5		12/26/07 17:15	75-65-0	
tert-Butyl Formate	ND	ug/L	250	5		12/26/07 17:15	762-75-4	
1,2-Dibromoethane (EDB)	ND	ug/L	25.0	5		12/26/07 17:15	106-93-4	
1,2-Dichloroethane	ND	ug/L	25.0	5		12/26/07 17:15	107-06-2	
Diisopropyl ether	**227**	ug/L	25.0	5		12/26/07 17:15	108-20-3	
Ethanol	ND	ug/L	1000	5		12/26/07 17:15	64-17-5	
Ethylbenzene	ND	ug/L	25.0	5		12/26/07 17:15	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	50.0	5		12/26/07 17:15	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	25.0	5		12/26/07 17:15	1634-04-4	
Naphthalene	**92.6**	ug/L	25.0	5		12/26/07 17:15	91-20-3	
Toluene	ND	ug/L	25.0	5		12/26/07 17:15	108-88-3	
Xylene (Total)	ND	ug/L	50.0	5		12/26/07 17:15	1330-20-7	
m&p-Xylene	ND	ug/L	50.0	5		12/26/07 17:15	1330-20-7	
o-Xylene	ND	ug/L	25.0	5		12/26/07 17:15	95-47-6	
Dibromofluoromethane (S)	93	%	85-115	5		12/26/07 17:15	1868-53-7	
Toluene-d8 (S)	99	%	70-120	5		12/26/07 17:15	2037-26-5	
4-Bromofluorobenzene (S)	94	%	87-109	5		12/26/07 17:15	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	79-120	5		12/26/07 17:15	17060-07-0	

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ANALYTICAL RESULTS

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

Sample: DW-6 **Lab ID: 9210167016** Collected: 12/17/07 15:15 Received: 12/19/07 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	12/20/07 00:00	12/21/07 01:31	106-93-4	
1-Chloro-2-bromopropane (S)	95	%	60-140	1	12/20/07 00:00	12/21/07 01:31	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	1		12/20/07 18:25	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		12/20/07 18:25	994-05-8	
Benzene	ND	ug/L	5.0	1		12/20/07 18:25	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		12/20/07 18:25	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		12/20/07 18:25	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		12/20/07 18:25	762-75-4	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/20/07 18:25	106-93-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/20/07 18:25	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		12/20/07 18:25	108-20-3	
Ethanol	ND	ug/L	200	1		12/20/07 18:25	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		12/20/07 18:25	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		12/20/07 18:25	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		12/20/07 18:25	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/20/07 18:25	91-20-3	
Toluene	ND	ug/L	5.0	1		12/20/07 18:25	108-88-3	
Xylene (Total)	ND	ug/L	10.0	1		12/20/07 18:25	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		12/20/07 18:25	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		12/20/07 18:25	95-47-6	
Dibromofluoromethane (S)	91	%	85-115	1		12/20/07 18:25	1868-53-7	
Toluene-d8 (S)	100	%	70-120	1		12/20/07 18:25	2037-26-5	
4-Bromofluorobenzene (S)	98	%	87-109	1		12/20/07 18:25	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	79-120	1		12/20/07 18:25	17060-07-0	

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ANALYTICAL RESULTS

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

Sample: ~~DW-6R~~ MW-6R **Lab ID: 9210167017** Collected: 12/18/07 09:45 Received: 12/19/07 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	12/20/07 00:00	12/21/07 01:40	106-93-4	
1-Chloro-2-bromopropane (S)	97	%	60-140	1	12/20/07 00:00	12/21/07 01:40	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260							
tert-Amyl Alcohol	**553**	ug/L	100	1		12/20/07 18:05	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		12/20/07 18:05	994-05-8	
Benzene	**39.3**	ug/L	5.0	1		12/20/07 18:05	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		12/20/07 18:05	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		12/20/07 18:05	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		12/20/07 18:05	762-75-4	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/20/07 18:05	106-93-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/20/07 18:05	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		12/20/07 18:05	108-20-3	
Ethanol	ND	ug/L	200	1		12/20/07 18:05	64-17-5	
Ethylbenzene	**328**	ug/L	50.0	10		12/21/07 12:49	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		12/20/07 18:05	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		12/20/07 18:05	1634-04-4	
Naphthalene	**46.1**	ug/L	5.0	1		12/20/07 18:05	91-20-3	
Toluene	**550**	ug/L	50.0	10		12/21/07 12:49	108-88-3	
Xylene (Total)	**1190**	ug/L	100	10		12/21/07 12:49	1330-20-7	
m&p-Xylene	**824**	ug/L	100	10		12/21/07 12:49	1330-20-7	
o-Xylene	**403**	ug/L	50.0	10		12/21/07 12:49	95-47-6	
Dibromofluoromethane (S)	101	%	85-115	1		12/20/07 18:05	1868-53-7	
Toluene-d8 (S)	102	%	70-120	1		12/20/07 18:05	2037-26-5	
4-Bromofluorobenzene (S)	95	%	87-109	1		12/20/07 18:05	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	79-120	1		12/20/07 18:05	17060-07-0	

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ANALYTICAL RESULTS

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

Sample: MW-11 **Lab ID: 9210167018** Collected: 12/18/07 10:55 Received: 12/19/07 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	12/20/07 00:00	12/21/07 01:49	106-93-4	
1-Chloro-2-bromopropane (S)	98	%	60-140	1	12/20/07 00:00	12/21/07 01:49	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	1		12/27/07 12:21	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		12/27/07 12:21	994-05-8	
Benzene	ND	ug/L	5.0	1		12/27/07 12:21	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		12/27/07 12:21	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		12/27/07 12:21	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		12/27/07 12:21	762-75-4	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/27/07 12:21	106-93-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/27/07 12:21	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		12/27/07 12:21	108-20-3	
Ethanol	ND	ug/L	200	1		12/27/07 12:21	64-17-5	
Ethylbenzene	**19.7**	ug/L	5.0	1		12/27/07 12:21	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		12/27/07 12:21	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		12/27/07 12:21	1634-04-4	
Naphthalene	**34.9**	ug/L	5.0	1		12/27/07 12:21	91-20-3	
Toluene	ND	ug/L	5.0	1		12/27/07 12:21	108-88-3	
Xylene (Total)	**324**	ug/L	10.0	1		12/27/07 12:21	1330-20-7	
m&p-Xylene	**311**	ug/L	10.0	1		12/27/07 12:21	1330-20-7	
o-Xylene	**56.5**	ug/L	5.0	1		12/27/07 12:21	95-47-6	
Dibromofluoromethane (S)	97	%	85-115	1		12/27/07 12:21	1868-53-7	
Toluene-d8 (S)	101	%	70-120	1		12/27/07 12:21	2037-26-5	
4-Bromofluorobenzene (S)	93	%	87-109	1		12/27/07 12:21	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	79-120	1		12/27/07 12:21	17060-07-0	

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ANALYTICAL RESULTS

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

Sample: MW-13R **Lab ID: 9210167019** Collected: 12/18/07 09:00 Received: 12/19/07 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	**0.029**	ug/L	0.020	1	12/20/07 00:00	12/21/07 01:59	106-93-4	
1-Chloro-2-bromopropane (S)	80	%	60-140	1	12/20/07 00:00	12/21/07 01:59	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	1		12/20/07 18:48	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		12/20/07 18:48	994-05-8	
Benzene	ND	ug/L	5.0	1		12/20/07 18:48	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		12/20/07 18:48	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		12/20/07 18:48	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		12/20/07 18:48	762-75-4	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/20/07 18:48	106-93-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/20/07 18:48	107-06-2	
Diisopropyl ether	**20.9**	ug/L	5.0	1		12/20/07 18:48	108-20-3	
Ethanol	ND	ug/L	200	1		12/20/07 18:48	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		12/20/07 18:48	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		12/20/07 18:48	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		12/20/07 18:48	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/20/07 18:48	91-20-3	
Toluene	ND	ug/L	5.0	1		12/20/07 18:48	108-88-3	
Xylene (Total)	ND	ug/L	10.0	1		12/20/07 18:48	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		12/20/07 18:48	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		12/20/07 18:48	95-47-6	
Dibromofluoromethane (S)	93	%	85-115	1		12/20/07 18:48	1868-53-7	
Toluene-d8 (S)	98	%	70-120	1		12/20/07 18:48	2037-26-5	
4-Bromofluorobenzene (S)	102	%	87-109	1		12/20/07 18:48	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	79-120	1		12/20/07 18:48	17060-07-0	

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ANALYTICAL RESULTS

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

Sample: MW-15R **Lab ID: 9210167020** Collected: 12/18/07 09:15 Received: 12/19/07 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	12/20/07 00:00	12/21/07 02:08	106-93-4	
1-Chloro-2-bromopropane (S)	92	%	60-140	1	12/20/07 00:00	12/21/07 02:08	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260							
tert-Amyl Alcohol	**421**	ug/L	100	1		12/20/07 20:00	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		12/20/07 20:00	994-05-8	
Benzene	**321**	ug/L	50.0	10		12/22/07 05:50	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		12/20/07 20:00	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		12/20/07 20:00	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		12/20/07 20:00	762-75-4	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/20/07 20:00	106-93-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/20/07 20:00	107-06-2	
Diisopropyl ether	**53.9**	ug/L	5.0	1		12/20/07 20:00	108-20-3	
Ethanol	ND	ug/L	200	1		12/20/07 20:00	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		12/20/07 20:00	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		12/20/07 20:00	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		12/20/07 20:00	1634-04-4	
Naphthalene	**51.5**	ug/L	5.0	1		12/20/07 20:00	91-20-3	
Toluene	**6.0**	ug/L	5.0	1		12/20/07 20:00	108-88-3	
Xylene (Total)	**48.5**	ug/L	10.0	1		12/20/07 20:00	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		12/20/07 20:00	1330-20-7	
o-Xylene	**43.1**	ug/L	5.0	1		12/20/07 20:00	95-47-6	
Dibromofluoromethane (S)	93	%	85-115	1		12/20/07 20:00	1868-53-7	
Toluene-d8 (S)	100	%	70-120	1		12/20/07 20:00	2037-26-5	
4-Bromofluorobenzene (S)	98	%	87-109	1		12/20/07 20:00	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	79-120	1		12/20/07 20:00	17060-07-0	

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ANALYTICAL RESULTS

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

Sample: MW-16 **Lab ID: 9210167021** Collected: 12/18/07 12:45 Received: 12/19/07 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011		Preparation Method: EPA 8011					
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	12/20/07 00:00	12/21/07 02:17	106-93-4	
1-Chloro-2-bromopropane (S)	95	%	60-140	1	12/20/07 00:00	12/21/07 02:17	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	1		12/20/07 16:50	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		12/20/07 16:50	994-05-8	
Benzene	ND	ug/L	5.0	1		12/20/07 16:50	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		12/20/07 16:50	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		12/20/07 16:50	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		12/20/07 16:50	762-75-4	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/20/07 16:50	106-93-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/20/07 16:50	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		12/20/07 16:50	108-20-3	
Ethanol	ND	ug/L	200	1		12/20/07 16:50	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		12/20/07 16:50	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		12/20/07 16:50	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		12/20/07 16:50	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/20/07 16:50	91-20-3	
Toluene	ND	ug/L	5.0	1		12/20/07 16:50	108-88-3	
Xylene (Total)	ND	ug/L	10.0	1		12/20/07 16:50	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		12/20/07 16:50	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		12/20/07 16:50	95-47-6	
Dibromofluoromethane (S)	89	%	85-115	1		12/20/07 16:50	1868-53-7	
Toluene-d8 (S)	101	%	70-120	1		12/20/07 16:50	2037-26-5	
4-Bromofluorobenzene (S)	101	%	87-109	1		12/20/07 16:50	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	79-120	1		12/20/07 16:50	17060-07-0	

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ANALYTICAL RESULTS

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

Sample: MW-19 **Lab ID: 9210167022** Collected: 12/18/07 13:15 Received: 12/19/07 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromo-3-chloropropane	ND	ug/L	0.050	1	12/20/07 00:00	12/27/07 14:33	96-12-8	
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	12/20/07 00:00	12/27/07 14:33	106-93-4	
1,2,3-Trichloropropane	ND	ug/L	0.050	1	12/20/07 00:00	12/27/07 14:33	96-18-4	
1-Chloro-2-bromopropane (S)	113	%	60-140	1	12/20/07 00:00	12/27/07 14:33	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	1		12/21/07 08:41	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		12/21/07 08:41	994-05-8	
Benzene	**46.1**	ug/L	5.0	1		12/21/07 08:41	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		12/21/07 08:41	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		12/21/07 08:41	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		12/21/07 08:41	762-75-4	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/21/07 08:41	106-93-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/21/07 08:41	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		12/21/07 08:41	108-20-3	
Ethanol	ND	ug/L	200	1		12/21/07 08:41	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		12/21/07 08:41	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		12/21/07 08:41	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		12/21/07 08:41	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/21/07 08:41	91-20-3	
Toluene	ND	ug/L	5.0	1		12/21/07 08:41	108-88-3	
Xylene (Total)	ND	ug/L	10.0	1		12/21/07 08:41	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		12/21/07 08:41	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		12/21/07 08:41	95-47-6	
Dibromofluoromethane (S)	90	%	85-115	1		12/21/07 08:41	1868-53-7	
Toluene-d8 (S)	100	%	70-120	1		12/21/07 08:41	2037-26-5	
4-Bromofluorobenzene (S)	103	%	87-109	1		12/21/07 08:41	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	79-120	1		12/21/07 08:41	17060-07-0	

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ANALYTICAL RESULTS

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

Sample: MW-20 **Lab ID: 9210167023** Collected: 12/18/07 12:55 Received: 12/19/07 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	12/20/07 00:00	12/26/07 21:20	106-93-4	
1-Chloro-2-bromopropane (S)	101	%	60-140	1	12/20/07 00:00	12/26/07 21:20	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	1		12/20/07 17:13	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		12/20/07 17:13	994-05-8	
Benzene	ND	ug/L	5.0	1		12/20/07 17:13	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		12/20/07 17:13	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		12/20/07 17:13	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		12/20/07 17:13	762-75-4	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/20/07 17:13	106-93-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/20/07 17:13	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		12/20/07 17:13	108-20-3	
Ethanol	ND	ug/L	200	1		12/20/07 17:13	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		12/20/07 17:13	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		12/20/07 17:13	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		12/20/07 17:13	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/20/07 17:13	91-20-3	
Toluene	ND	ug/L	5.0	1		12/20/07 17:13	108-88-3	
Xylene (Total)	ND	ug/L	10.0	1		12/20/07 17:13	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		12/20/07 17:13	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		12/20/07 17:13	95-47-6	
Dibromofluoromethane (S)	94	%	85-115	1		12/20/07 17:13	1868-53-7	
Toluene-d8 (S)	99	%	70-120	1		12/20/07 17:13	2037-26-5	
4-Bromofluorobenzene (S)	99	%	87-109	1		12/20/07 17:13	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	79-120	1		12/20/07 17:13	17060-07-0	

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ANALYTICAL RESULTS

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

Sample: MW-21 **Lab ID: 9210167024** Collected: 12/18/07 11:30 Received: 12/19/07 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	12/20/07 00:00	12/26/07 21:38	106-93-4	
1-Chloro-2-bromopropane (S)	91	%	60-140	1	12/20/07 00:00	12/26/07 21:38	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	1		12/20/07 16:02	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		12/20/07 16:02	994-05-8	
Benzene	ND	ug/L	5.0	1		12/20/07 16:02	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		12/20/07 16:02	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		12/20/07 16:02	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		12/20/07 16:02	762-75-4	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/20/07 16:02	106-93-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/20/07 16:02	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		12/20/07 16:02	108-20-3	
Ethanol	ND	ug/L	200	1		12/20/07 16:02	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		12/20/07 16:02	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		12/20/07 16:02	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		12/20/07 16:02	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/20/07 16:02	91-20-3	
Toluene	ND	ug/L	5.0	1		12/20/07 16:02	108-88-3	
Xylene (Total)	ND	ug/L	10.0	1		12/20/07 16:02	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		12/20/07 16:02	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		12/20/07 16:02	95-47-6	
Dibromofluoromethane (S)	93	%	85-115	1		12/20/07 16:02	1868-53-7	
Toluene-d8 (S)	100	%	70-120	1		12/20/07 16:02	2037-26-5	
4-Bromofluorobenzene (S)	100	%	87-109	1		12/20/07 16:02	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	79-120	1		12/20/07 16:02	17060-07-0	

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ANALYTICAL RESULTS

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

Sample: MW-22 **Lab ID: 9210167025** Collected: 12/18/07 11:20 Received: 12/19/07 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011		Preparation Method: EPA 8011					
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	12/20/07 00:00	12/26/07 21:48	106-93-4	
1-Chloro-2-bromopropane (S)	91	%	60-140	1	12/20/07 00:00	12/26/07 21:48	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	1		12/20/07 16:26	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		12/20/07 16:26	994-05-8	
Benzene	ND	ug/L	5.0	1		12/20/07 16:26	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		12/20/07 16:26	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		12/20/07 16:26	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		12/20/07 16:26	762-75-4	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/20/07 16:26	106-93-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/20/07 16:26	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		12/20/07 16:26	108-20-3	
Ethanol	ND	ug/L	200	1		12/20/07 16:26	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		12/20/07 16:26	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		12/20/07 16:26	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		12/20/07 16:26	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/20/07 16:26	91-20-3	
Toluene	ND	ug/L	5.0	1		12/20/07 16:26	108-88-3	
Xylene (Total)	ND	ug/L	10.0	1		12/20/07 16:26	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		12/20/07 16:26	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		12/20/07 16:26	95-47-6	
Dibromofluoromethane (S)	91	%	85-115	1		12/20/07 16:26	1868-53-7	
Toluene-d8 (S)	100	%	70-120	1		12/20/07 16:26	2037-26-5	
4-Bromofluorobenzene (S)	99	%	87-109	1		12/20/07 16:26	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	79-120	1		12/20/07 16:26	17060-07-0	

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ANALYTICAL RESULTS

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

Sample: MW-25 **Lab ID: 9210167026** Collected: 12/18/07 09:30 Received: 12/19/07 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	**4.0**	ug/L	0.40	20	12/20/07 00:00	01/02/08 16:15	106-93-4	
1-Chloro-2-bromopropane (S)	0	%	60-140	20	12/20/07 00:00	01/02/08 16:15	301-79-56	S4
8260 MSV Oxygenates	Analytical Method: EPA 8260							
tert-Amyl Alcohol	**3330**	ug/L	1000	10		12/26/07 17:39	75-85-4	
tert-Amylmethyl ether	ND	ug/L	100	10		12/26/07 17:39	994-05-8	
Benzene	**782**	ug/L	50.0	10		12/26/07 17:39	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	10		12/26/07 17:39	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1000	10		12/26/07 17:39	75-65-0	
tert-Butyl Formate	ND	ug/L	500	10		12/26/07 17:39	762-75-4	
1,2-Dibromoethane (EDB)	ND	ug/L	50.0	10		12/26/07 17:39	106-93-4	
1,2-Dichloroethane	ND	ug/L	50.0	10		12/26/07 17:39	107-06-2	
Diisopropyl ether	ND	ug/L	50.0	10		12/26/07 17:39	108-20-3	
Ethanol	ND	ug/L	2000	10		12/26/07 17:39	64-17-5	
Ethylbenzene	**1020**	ug/L	50.0	10		12/26/07 17:39	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	100	10		12/26/07 17:39	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	50.0	10		12/26/07 17:39	1634-04-4	
Naphthalene	**370**	ug/L	50.0	10		12/26/07 17:39	91-20-3	
Toluene	**13500**	ug/L	1250	250		12/27/07 14:19	108-88-3	
Xylene (Total)	**5670**	ug/L	100	10		12/26/07 17:39	1330-20-7	
m&p-Xylene	**4970**	ug/L	2500	250		12/27/07 14:19	1330-20-7	
o-Xylene	**2580**	ug/L	1250	250		12/27/07 14:19	95-47-6	
Dibromofluoromethane (S)	96	%	85-115	10		12/26/07 17:39	1868-53-7	
Toluene-d8 (S)	99	%	70-120	10		12/26/07 17:39	2037-26-5	
4-Bromofluorobenzene (S)	96	%	87-109	10		12/26/07 17:39	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%	79-120	10		12/26/07 17:39	17060-07-0	

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ANALYTICAL RESULTS

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

Sample: MW-34 **Lab ID: 9210167027** Collected: 12/18/07 12:20 Received: 12/19/07 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011		Preparation Method: EPA 8011					
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	12/20/07 00:00	12/26/07 22:06	106-93-4	
1-Chloro-2-bromopropane (S)	107	%	60-140	1	12/20/07 00:00	12/26/07 22:06	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	1		12/20/07 19:12	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		12/20/07 19:12	994-05-8	
Benzene	ND	ug/L	5.0	1		12/20/07 19:12	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		12/20/07 19:12	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		12/20/07 19:12	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		12/20/07 19:12	762-75-4	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/20/07 19:12	106-93-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/20/07 19:12	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		12/20/07 19:12	108-20-3	
Ethanol	ND	ug/L	200	1		12/20/07 19:12	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		12/20/07 19:12	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		12/20/07 19:12	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		12/20/07 19:12	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/20/07 19:12	91-20-3	
Toluene	ND	ug/L	5.0	1		12/20/07 19:12	108-88-3	
Xylene (Total)	ND	ug/L	10.0	1		12/20/07 19:12	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		12/20/07 19:12	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		12/20/07 19:12	95-47-6	
Dibromofluoromethane (S)	94	%	85-115	1		12/20/07 19:12	1868-53-7	
Toluene-d8 (S)	100	%	70-120	1		12/20/07 19:12	2037-26-5	
4-Bromofluorobenzene (S)	101	%	87-109	1		12/20/07 19:12	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	79-120	1		12/20/07 19:12	17060-07-0	

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ANALYTICAL RESULTS

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

Sample: MW-40 **Lab ID: 9210167028** Collected: 12/18/07 12:00 Received: 12/19/07 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	12/20/07 00:00	12/26/07 22:16	106-93-4	
1-Chloro-2-bromopropane (S)	99	%	60-140	1	12/20/07 00:00	12/26/07 22:16	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	1		12/20/07 19:36	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		12/20/07 19:36	994-05-8	
Benzene	ND	ug/L	5.0	1		12/20/07 19:36	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		12/20/07 19:36	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		12/20/07 19:36	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		12/20/07 19:36	762-75-4	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/20/07 19:36	106-93-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/20/07 19:36	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		12/20/07 19:36	108-20-3	
Ethanol	ND	ug/L	200	1		12/20/07 19:36	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		12/20/07 19:36	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		12/20/07 19:36	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		12/20/07 19:36	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/20/07 19:36	91-20-3	
Toluene	ND	ug/L	5.0	1		12/20/07 19:36	108-88-3	
Xylene (Total)	ND	ug/L	10.0	1		12/20/07 19:36	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		12/20/07 19:36	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		12/20/07 19:36	95-47-6	
Dibromofluoromethane (S)	94	%	85-115	1		12/20/07 19:36	1868-53-7	
Toluene-d8 (S)	100	%	70-120	1		12/20/07 19:36	2037-26-5	
4-Bromofluorobenzene (S)	101	%	87-109	1		12/20/07 19:36	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	79-120	1		12/20/07 19:36	17060-07-0	

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ANALYTICAL RESULTS

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

Sample: DW-3 **Lab ID: 9210167029** Collected: 12/18/07 10:45 Received: 12/19/07 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	12/20/07 00:00	12/26/07 22:25	106-93-4	
1-Chloro-2-bromopropane (S)	97	%	60-140	1	12/20/07 00:00	12/26/07 22:25	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	100	1		12/20/07 17:37	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	1		12/20/07 17:37	994-05-8	
Benzene	ND	ug/L	5.0	1		12/20/07 17:37	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	1		12/20/07 17:37	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	1		12/20/07 17:37	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	1		12/20/07 17:37	762-75-4	
1,2-Dibromoethane (EDB)	ND	ug/L	5.0	1		12/20/07 17:37	106-93-4	
1,2-Dichloroethane	ND	ug/L	5.0	1		12/20/07 17:37	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1		12/20/07 17:37	108-20-3	
Ethanol	ND	ug/L	200	1		12/20/07 17:37	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1		12/20/07 17:37	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	1		12/20/07 17:37	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1		12/20/07 17:37	1634-04-4	
Naphthalene	ND	ug/L	5.0	1		12/20/07 17:37	91-20-3	
Toluene	ND	ug/L	5.0	1		12/20/07 17:37	108-88-3	
Xylene (Total)	ND	ug/L	10.0	1		12/20/07 17:37	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	1		12/20/07 17:37	1330-20-7	
o-Xylene	ND	ug/L	5.0	1		12/20/07 17:37	95-47-6	
Dibromofluoromethane (S)	92	%	85-115	1		12/20/07 17:37	1868-53-7	
Toluene-d8 (S)	101	%	70-120	1		12/20/07 17:37	2037-26-5	
4-Bromofluorobenzene (S)	100	%	87-109	1		12/20/07 17:37	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	79-120	1		12/20/07 17:37	17060-07-0	

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ANALYTICAL RESULTS

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

Sample: DW-4 **Lab ID: 9210167030** Collected: 12/18/07 10:45 Received: 12/19/07 10:30 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromoethane (EDB)	**0.37**	ug/L	0.020	1	12/20/07 00:00	12/26/07 22:34	106-93-4	
1-Chloro-2-bromopropane (S)	92	%	60-140	1	12/20/07 00:00	12/26/07 22:34	301-79-56	
8260 MSV Oxygenates	Analytical Method: EPA 8260							
tert-Amyl Alcohol	ND	ug/L	500	5		12/27/07 15:31	75-85-4	
tert-Amylmethyl ether	ND	ug/L	50.0	5		12/27/07 15:31	994-05-8	
Benzene	**61.2**	ug/L	25.0	5		12/27/07 15:31	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	500	5		12/27/07 15:31	624-95-3	
tert-Butyl Alcohol	ND	ug/L	500	5		12/27/07 15:31	75-65-0	
tert-Butyl Formate	ND	ug/L	250	5		12/27/07 15:31	762-75-4	
1,2-Dibromoethane (EDB)	ND	ug/L	25.0	5		12/27/07 15:31	106-93-4	
1,2-Dichloroethane	ND	ug/L	25.0	5		12/27/07 15:31	107-06-2	
Diisopropyl ether	**31.3**	ug/L	25.0	5		12/27/07 15:31	108-20-3	
Ethanol	ND	ug/L	1000	5		12/27/07 15:31	64-17-5	
Ethylbenzene	**280**	ug/L	25.0	5		12/27/07 15:31	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	50.0	5		12/27/07 15:31	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	25.0	5		12/27/07 15:31	1634-04-4	
Naphthalene	**120**	ug/L	25.0	5		12/27/07 15:31	91-20-3	
Toluene	**602**	ug/L	25.0	5		12/27/07 15:31	108-88-3	
Xylene (Total)	**1280**	ug/L	50.0	5		12/27/07 15:31	1330-20-7	
m&p-Xylene	**1020**	ug/L	50.0	5		12/27/07 15:31	1330-20-7	
o-Xylene	**445**	ug/L	25.0	5		12/27/07 15:31	95-47-6	
Dibromofluoromethane (S)	97	%	85-115	5		12/27/07 15:31	1868-53-7	
Toluene-d8 (S)	99	%	70-120	5		12/27/07 15:31	2037-26-5	
4-Bromofluorobenzene (S)	93	%	87-109	5		12/27/07 15:31	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	79-120	5		12/27/07 15:31	17060-07-0	

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QUALITY CONTROL DATA

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

QC Batch: MSV/2125 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates
Associated Lab Samples: 9210167001, 9210167002, 9210167003, 9210167004, 9210167008, 9210167010, 9210167011, 9210167012

METHOD BLANK: 55646
Associated Lab Samples: 9210167001, 9210167002, 9210167003, 9210167004, 9210167008, 9210167010, 9210167011, 9210167012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	
1,2-Dichloroethane	ug/L	ND	5.0	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	
Benzene	ug/L	ND	5.0	
Diisopropyl ether	ug/L	ND	5.0	
Ethanol	ug/L	ND	200	
Ethyl-tert-butyl ether	ug/L	ND	10.0	
Ethylbenzene	ug/L	ND	5.0	
m&p-Xylene	ug/L	ND	10.0	
Methyl-tert-butyl ether	ug/L	ND	5.0	
Naphthalene	ug/L	ND	5.0	
o-Xylene	ug/L	ND	5.0	
tert-Amyl Alcohol	ug/L	ND	100	
tert-Amylmethyl ether	ug/L	ND	10.0	
tert-Butyl Alcohol	ug/L	ND	100	
tert-Butyl Formate	ug/L	ND	50.0	
Toluene	ug/L	ND	5.0	
Xylene (Total)	ug/L	ND	10.0	
1,2-Dichloroethane-d4 (S)	%	101	79-120	
4-Bromofluorobenzene (S)	%	96	87-109	
Dibromofluoromethane (S)	%	97	85-115	
Toluene-d8 (S)	%	101	70-120	

LABORATORY CONTROL SAMPLE: 55647

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	57.7	115	81-125	
1,2-Dichloroethane	ug/L	50	56.0	112	72-126	
3,3-Dimethyl-1-Butanol	ug/L	1000	1850	185	55-148	L3
Benzene	ug/L	50	58.7	117	78-128	
Diisopropyl ether	ug/L	50	63.6	127	74-131	
Ethanol	ug/L	2000	4030	202	53-150	L3
Ethyl-tert-butyl ether	ug/L	100	124	124	77-136	
Ethylbenzene	ug/L	50	59.3	119	80-127	
m&p-Xylene	ug/L	100	117	117	82-127	
Methyl-tert-butyl ether	ug/L	50	62.7	125	71-130	
Naphthalene	ug/L	50	68.0	136	52-136	
o-Xylene	ug/L	50	57.0	114	83-124	
tert-Amyl Alcohol	ug/L	1000	2300	230	50-150	L3
tert-Amylmethyl ether	ug/L	100	125	125	50-150	
tert-Butyl Alcohol	ug/L	500	622	124	50-150	

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QUALITY CONTROL DATA

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

LABORATORY CONTROL SAMPLE: 55647

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Formate	ug/L	200	201	101	50-150	
Toluene	ug/L	50	59.7	119	76-126	
Xylene (Total)	ug/L	150	179	119	83-125	
1,2-Dichloroethane-d4 (S)	%			100	79-120	
4-Bromofluorobenzene (S)	%			102	87-109	
Dibromofluoromethane (S)	%			102	85-115	
Toluene-d8 (S)	%			103	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 55648 55649

Parameter	Units	9210066004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Benzene	ug/L	8.1	50	50	70.4	69.7	125	123	74-136	1	
Toluene	ug/L	10.3	50	50	70.5	70.0	120	119	73-131	.8	
1,2-Dichloroethane-d4 (S)	%						108	112	79-120		
4-Bromofluorobenzene (S)	%						92	91	87-109		
Dibromofluoromethane (S)	%						104	105	85-115		
Toluene-d8 (S)	%						100	101	70-120		

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QUALITY CONTROL DATA

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

QC Batch: MSV/2132 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates
Associated Lab Samples: 9210167005, 9210167006, 9210167007, 9210167009, 9210167014, 9210167017

METHOD BLANK: 56091
Associated Lab Samples: 9210167005, 9210167006, 9210167007, 9210167009, 9210167014, 9210167017

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	
1,2-Dichloroethane	ug/L	ND	5.0	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	
Benzene	ug/L	ND	5.0	
Diisopropyl ether	ug/L	ND	5.0	
Ethanol	ug/L	ND	200	
Ethyl-tert-butyl ether	ug/L	ND	10.0	
Ethylbenzene	ug/L	ND	5.0	
m&p-Xylene	ug/L	ND	10.0	
Methyl-tert-butyl ether	ug/L	ND	5.0	
Naphthalene	ug/L	ND	5.0	
o-Xylene	ug/L	ND	5.0	
tert-Amyl Alcohol	ug/L	ND	100	
tert-Amylmethyl ether	ug/L	ND	10.0	
tert-Butyl Alcohol	ug/L	ND	100	
tert-Butyl Formate	ug/L	ND	50.0	
Toluene	ug/L	ND	5.0	
Xylene (Total)	ug/L	ND	10.0	
1,2-Dichloroethane-d4 (S)	%	106	79-120	
4-Bromofluorobenzene (S)	%	91	87-109	
Dibromofluoromethane (S)	%	102	85-115	
Toluene-d8 (S)	%	101	70-120	

LABORATORY CONTROL SAMPLE: 56092

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	46.3	93	81-125	
1,2-Dichloroethane	ug/L	50	51.7	103	72-126	
3,3-Dimethyl-1-Butanol	ug/L	1000	692	69	55-148	
Benzene	ug/L	50	51.1	102	78-128	
Diisopropyl ether	ug/L	50	57.2	114	74-131	
Ethanol	ug/L	2000	2070	103	53-150	
Ethyl-tert-butyl ether	ug/L	100	108	108	77-136	
Ethylbenzene	ug/L	50	50.3	101	80-127	
m&p-Xylene	ug/L	100	98.1	98	82-127	
Methyl-tert-butyl ether	ug/L	50	52.9	106	71-130	
Naphthalene	ug/L	50	46.8	94	52-136	
o-Xylene	ug/L	50	47.8	96	83-124	
tert-Amyl Alcohol	ug/L	1000	741	74	50-150	
tert-Amylmethyl ether	ug/L	100	104	104	50-150	
tert-Butyl Alcohol	ug/L	500	542	108	50-150	

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QUALITY CONTROL DATA

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

LABORATORY CONTROL SAMPLE: 56092

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Formate	ug/L	200	190	95	50-150	
Toluene	ug/L	50	50.6	101	76-126	
Xylene (Total)	ug/L	150	155	103	83-125	
1,2-Dichloroethane-d4 (S)	%			106	79-120	
4-Bromofluorobenzene (S)	%			95	87-109	
Dibromofluoromethane (S)	%			105	85-115	
Toluene-d8 (S)	%			102	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 56093 56094

Parameter	Units	9210161002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Benzene	ug/L	ND	50	50	62.0	61.9	120	120	74-136	.2	
Toluene	ug/L	18.5	50	50	78.2	77.2	119	117	73-131	1	
1,2-Dichloroethane-d4 (S)	%						106	105	79-120		
4-Bromofluorobenzene (S)	%						94	96	87-109		
Dibromofluoromethane (S)	%						100	102	85-115		
Toluene-d8 (S)	%						101	100	70-120		

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QUALITY CONTROL DATA

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

QC Batch: MSV/2133 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates
Associated Lab Samples: 9210167013, 9210167016, 9210167019, 9210167020, 9210167021, 9210167023, 9210167024, 9210167025, 9210167027, 9210167028, 9210167029

METHOD BLANK: 56095

Associated Lab Samples: 9210167013, 9210167016, 9210167019, 9210167020, 9210167021, 9210167023, 9210167024, 9210167025, 9210167027, 9210167028, 9210167029

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	
1,2-Dichloroethane	ug/L	ND	5.0	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	
Benzene	ug/L	ND	5.0	
Diisopropyl ether	ug/L	ND	5.0	
Ethanol	ug/L	ND	200	
Ethyl-tert-butyl ether	ug/L	ND	10.0	
Ethylbenzene	ug/L	ND	5.0	
m&p-Xylene	ug/L	ND	10.0	
Methyl-tert-butyl ether	ug/L	ND	5.0	
Naphthalene	ug/L	ND	5.0	
o-Xylene	ug/L	ND	5.0	
tert-Amyl Alcohol	ug/L	ND	100	
tert-Amylmethyl ether	ug/L	ND	10.0	
tert-Butyl Alcohol	ug/L	ND	100	
tert-Butyl Formate	ug/L	ND	50.0	
Toluene	ug/L	ND	5.0	
Xylene (Total)	ug/L	ND	10.0	
1,2-Dichloroethane-d4 (S)	%	96	79-120	
4-Bromofluorobenzene (S)	%	102	87-109	
Dibromofluoromethane (S)	%	94	85-115	
Toluene-d8 (S)	%	101	70-120	

LABORATORY CONTROL SAMPLE: 56096

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	53.4	107	81-125	
1,2-Dichloroethane	ug/L	50	54.0	108	72-126	
3,3-Dimethyl-1-Butanol	ug/L	1000	840	84	55-148	
Benzene	ug/L	50	55.3	111	78-128	
Diisopropyl ether	ug/L	50	57.3	115	74-131	
Ethanol	ug/L	2000	2180	109	53-150	
Ethyl-tert-butyl ether	ug/L	100	109	109	77-136	
Ethylbenzene	ug/L	50	54.2	108	80-127	
m&p-Xylene	ug/L	100	108	108	82-127	
Methyl-tert-butyl ether	ug/L	50	53.1	106	71-130	
Naphthalene	ug/L	50	55.1	110	52-136	
o-Xylene	ug/L	50	52.4	105	83-124	
tert-Amyl Alcohol	ug/L	1000	1070	107	50-150	
tert-Amylmethyl ether	ug/L	100	112	112	50-150	

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QUALITY CONTROL DATA

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

LABORATORY CONTROL SAMPLE: 56096

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Alcohol	ug/L	500	447	89	50-150	
tert-Butyl Formate	ug/L	200	224	112	50-150	
Toluene	ug/L	50	55.0	110	76-126	
Xylene (Total)	ug/L	150	163	108	83-125	
1,2-Dichloroethane-d4 (S)	%			99	79-120	
4-Bromofluorobenzene (S)	%			100	87-109	
Dibromofluoromethane (S)	%			93	85-115	
Toluene-d8 (S)	%			101	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 56097 56098

Parameter	Units	9210161004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Benzene	ug/L	ND	50	50	51.3	68.5	103	137	74-136	29	M1
Toluene	ug/L	ND	50	50	50.5	67.0	101	134	73-131	28	M1
1,2-Dichloroethane-d4 (S)	%						97	96	79-120		
4-Bromofluorobenzene (S)	%						99	101	87-109		
Dibromofluoromethane (S)	%						92	90	85-115		
Toluene-d8 (S)	%						100	99	70-120		

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QUALITY CONTROL DATA

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

QC Batch: OEXT/2026
QC Batch Method: EPA 8011
Analysis Method: EPA 8011
Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 9210167001

METHOD BLANK: 56197
Associated Lab Samples: 9210167001

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	
1-Chloro-2-bromopropane (S)	%	100	60-140	

LABORATORY CONTROL SAMPLE & LCSD: 56198 56199

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.29	0.29	0.27	100	94	60-140	6	20	
1-Chloro-2-bromopropane (S)	%				96	93	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 56200 56201

Parameter	Units	9210044002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.29	.29	0.32	0.31	112	108	60-140	4	
1-Chloro-2-bromopropane (S)	%						94	92	60-140		

SAMPLE DUPLICATE: 56202

Parameter	Units	9210044003 Result	Dup Result	RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND	0	
1-Chloro-2-bromopropane (S)	%		90	7	

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QUALITY CONTROL DATA

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

QC Batch: OEXT/2027 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 9210167002, 9210167003, 9210167004, 9210167005, 9210167006, 9210167007, 9210167008, 9210167009, 9210167010, 9210167011, 9210167012, 9210167013, 9210167014, 9210167015, 9210167016, 9210167017, 9210167018, 9210167019, 9210167020, 9210167021

METHOD BLANK: 56205

Associated Lab Samples: 9210167002, 9210167003, 9210167004, 9210167005, 9210167006, 9210167007, 9210167008, 9210167009, 9210167010, 9210167011, 9210167012, 9210167013, 9210167014, 9210167015, 9210167016, 9210167017, 9210167018, 9210167019, 9210167020, 9210167021

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	
1-Chloro-2-bromopropane (S)	%	89	60-140	

LABORATORY CONTROL SAMPLE & LCSD: 56206 56207

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.29	0.27	0.26	94	92	60-140	2	20	
1-Chloro-2-bromopropane (S)	%				93	88	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 56208 56209

Parameter	Units	9210167002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.29	.29	0.29	0.28	100	98	60-140	2	
1-Chloro-2-bromopropane (S)	%						92	91	60-140		

SAMPLE DUPLICATE: 56210

Parameter	Units	9210167003 Result	Dup Result	RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND	0	
1-Chloro-2-bromopropane (S)	%		94	4	

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QUALITY CONTROL DATA

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

QC Batch: MSV/2137
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Oxygenates
Associated Lab Samples: 9210167022

METHOD BLANK: 56259
Associated Lab Samples: 9210167022

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	
1,2-Dichloroethane	ug/L	ND	5.0	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	
Benzene	ug/L	ND	5.0	
Diisopropyl ether	ug/L	ND	5.0	
Ethanol	ug/L	ND	200	
Ethyl-tert-butyl ether	ug/L	ND	10.0	
Ethylbenzene	ug/L	ND	5.0	
m&p-Xylene	ug/L	ND	10.0	
Methyl-tert-butyl ether	ug/L	ND	5.0	
Naphthalene	ug/L	ND	5.0	
o-Xylene	ug/L	ND	5.0	
tert-Amyl Alcohol	ug/L	ND	100	
tert-Amylmethyl ether	ug/L	ND	10.0	
tert-Butyl Alcohol	ug/L	ND	100	
tert-Butyl Formate	ug/L	ND	50.0	
Toluene	ug/L	ND	5.0	
Xylene (Total)	ug/L	ND	10.0	
1,2-Dichloroethane-d4 (S)	%	96	79-120	
4-Bromofluorobenzene (S)	%	102	87-109	
Dibromofluoromethane (S)	%	92	85-115	
Toluene-d8 (S)	%	99	70-120	

LABORATORY CONTROL SAMPLE: 56260

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	58.8	118	81-125	
1,2-Dichloroethane	ug/L	50	59.9	120	72-126	
3,3-Dimethyl-1-Butanol	ug/L	1000	954	95	55-148	
Benzene	ug/L	50	60.1	120	78-128	
Diisopropyl ether	ug/L	50	62.8	126	74-131	
Ethanol	ug/L	2000	2250	113	53-150	
Ethyl-tert-butyl ether	ug/L	100	121	121	77-136	
Ethylbenzene	ug/L	50	59.7	119	80-127	
m&p-Xylene	ug/L	100	118	118	82-127	
Methyl-tert-butyl ether	ug/L	50	59.6	119	71-130	
Naphthalene	ug/L	50	62.4	125	52-136	
o-Xylene	ug/L	50	57.3	115	83-124	
tert-Amyl Alcohol	ug/L	1000	1240	124	50-150	
tert-Amylmethyl ether	ug/L	100	126	126	50-150	
tert-Butyl Alcohol	ug/L	500	523	105	50-150	

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QUALITY CONTROL DATA

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

LABORATORY CONTROL SAMPLE: 56260

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Formate	ug/L	200	250	125	50-150	
Toluene	ug/L	50	60.4	121	76-126	
Xylene (Total)	ug/L	150	178	119	83-125	
1,2-Dichloroethane-d4 (S)	%			100	79-120	
4-Bromofluorobenzene (S)	%			103	87-109	
Dibromofluoromethane (S)	%			104	85-115	
Toluene-d8 (S)	%			101	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 56263 56264

Parameter	Units	9210183003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Benzene	ug/L	ND	50	50	58.7	51.7	117	103	74-136	13	
Toluene	ug/L	ND	50	50	54.2	48.1	108	96	73-131	12	
1,2-Dichloroethane-d4 (S)	%						96	95	79-120		
4-Bromofluorobenzene (S)	%						101	103	87-109		
Dibromofluoromethane (S)	%						93	92	85-115		
Toluene-d8 (S)	%						100	99	70-120		

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QUALITY CONTROL DATA

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

QC Batch: OEXT/2030 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 9210167022, 9210167023, 9210167024, 9210167025, 9210167026, 9210167027, 9210167028, 9210167029, 9210167030

METHOD BLANK: 56702

Associated Lab Samples: 9210167022, 9210167023, 9210167024, 9210167025, 9210167026, 9210167027, 9210167028, 9210167029, 9210167030

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,2,3-Trichloropropane	ug/L	ND	0.050	
1,2-Dibromo-3-chloropropane	ug/L	ND	0.050	
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	
1-Chloro-2-bromopropane (S)	%	101	60-140	

LABORATORY CONTROL SAMPLE & LCSD: 56703 56704

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,3-Trichloropropane	ug/L	.29	0.32	0.33	112	114	60-140	2	20	
1,2-Dibromo-3-chloropropane	ug/L	.29	0.33	0.33	114	116	60-140	2	20	
1,2-Dibromoethane (EDB)	ug/L	.29	0.30	0.30	106	106	60-140	0	20	
1-Chloro-2-bromopropane (S)	%				102	97	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 56705 56706

Parameter	Units	9210167022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
1,2,3-Trichloropropane	ug/L	ND	.29	.29	0.34	0.35	118	122	60-140	3	
1,2-Dibromo-3-chloropropane	ug/L	ND	.29	.29	0.29	0.29	100	102	60-140	2	
1,2-Dibromoethane (EDB)	ug/L	ND	.29	.29	0.37	0.38	130	132	60-140	2	
1-Chloro-2-bromopropane (S)	%						107	109	60-140		

SAMPLE DUPLICATE: 56707

Parameter	Units	9210167023 Result	Dup Result	RPD	Qualifiers
1,2,3-Trichloropropane	ug/L	ND	ND	0	
1,2-Dibromo-3-chloropropane	ug/L	ND	ND	0	
1,2-Dibromoethane (EDB)	ug/L	ND	ND	0	
1-Chloro-2-bromopropane (S)	%		99	2	

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QUALITY CONTROL DATA

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

QC Batch: MSV/2157 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates
Associated Lab Samples: 9210167015, 9210167018, 9210167026, 9210167030

METHOD BLANK: 57930
Associated Lab Samples: 9210167015, 9210167018, 9210167026, 9210167030

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	
1,2-Dichloroethane	ug/L	ND	5.0	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	
Benzene	ug/L	ND	5.0	
Diisopropyl ether	ug/L	ND	5.0	
Ethanol	ug/L	ND	200	
Ethyl-tert-butyl ether	ug/L	ND	10.0	
Ethylbenzene	ug/L	ND	5.0	
m&p-Xylene	ug/L	ND	10.0	
Methyl-tert-butyl ether	ug/L	ND	5.0	
Naphthalene	ug/L	ND	5.0	
o-Xylene	ug/L	ND	5.0	
tert-Amyl Alcohol	ug/L	ND	100	
tert-Amylmethyl ether	ug/L	ND	10.0	
tert-Butyl Alcohol	ug/L	ND	100	
tert-Butyl Formate	ug/L	ND	50.0	
Toluene	ug/L	ND	5.0	
Xylene (Total)	ug/L	ND	10.0	
1,2-Dichloroethane-d4 (S)	%	111	79-120	
4-Bromofluorobenzene (S)	%	94	87-109	
Dibromofluoromethane (S)	%	96	85-115	
Toluene-d8 (S)	%	98	70-120	

LABORATORY CONTROL SAMPLE: 57931

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	50	60.2	120	81-125	
1,2-Dichloroethane	ug/L	50	55.5	111	72-126	
3,3-Dimethyl-1-Butanol	ug/L	1000	969	97	55-148	
Benzene	ug/L	50	54.1	108	78-128	
Diisopropyl ether	ug/L	50	55.8	112	74-131	
Ethanol	ug/L	2000	2320	116	53-150	
Ethyl-tert-butyl ether	ug/L	100	109	109	77-136	
Ethylbenzene	ug/L	50	61.7	123	80-127	
m&p-Xylene	ug/L	100	124	124	82-127	
Methyl-tert-butyl ether	ug/L	50	53.0	106	71-130	
Naphthalene	ug/L	50	63.6	127	52-136	
o-Xylene	ug/L	50	59.7	119	83-124	
tert-Amyl Alcohol	ug/L	1000	1110	111	50-150	
tert-Amylmethyl ether	ug/L	100	113	113	50-150	
tert-Butyl Alcohol	ug/L	500	488	98	50-150	

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QUALITY CONTROL DATA

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

LABORATORY CONTROL SAMPLE: 57931

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butyl Formate	ug/L	200	223	111	50-150	
Toluene	ug/L	50	54.2	108	76-126	
Xylene (Total)	ug/L	150	158	105	83-125	
1,2-Dichloroethane-d4 (S)	%			113	79-120	
4-Bromofluorobenzene (S)	%			96	87-109	
Dibromofluoromethane (S)	%			92	85-115	
Toluene-d8 (S)	%			99	70-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 57932 57933

Parameter	Units	9210302001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Benzene	ug/L	ND	50	50	43.0	57.5	85	114	74-136	29	
Toluene	ug/L	ND	50	50	41.0	54.0	82	108	73-131	27	
1,2-Dichloroethane-d4 (S)	%						114	112	79-120		
4-Bromofluorobenzene (S)	%						94	95	87-109		
Dibromofluoromethane (S)	%						98	95	85-115		
Toluene-d8 (S)	%						99	98	70-120		

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QUALIFIERS

Project: GEORGE SOUT 08650/CA:31083
Pace Project No.: 9210167

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

L3	Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
S4	Surrogate recovery not evaluated against control limits due to sample dilution.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 3

1136795

Section A Required Client Information:

Company: SCDHEC-UST
Address: 2600 Bull St. Columbia, SC 29201
Email To:
Phone: 803.896.4140 Fax: 803.896.6245
Requested Due Date/TAT: 7 Day

Section B Required Project Information:

Report To: D. Thema
Copy To:
Purchase Order No.: 587465
Project Name: George Southers Grocery
Project Number: 08650 / CA: 31083

Section C Invoice Information:

Attention: Finance
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 1315-1

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER

Site Location STATE: SC

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

Requested Analysis Filtered (Y/N): BTEXMN (8260B) Y; 8-oxygenates Y; 1,2 DCA (8260B) Y; EDB (8011) Y

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	COLLECTED Composite Start TIME	COLLECTED Composite End/Grab DATE	COLLECTED Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	BTEXMN (8260B)	8-oxygenates	1,2 DCA (8260B)	EDB (8011)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-4	WT	G	12/17/07	1205	—	—	—	6				6					X	X	X	X		
2	MW-14R				1545	—	—	—															Bubble in Viles; No odor
3	MW-17				1035	—	—	—															
4	MW-24				1645	—	—	—															Slight odor?
5	MW-26				1555	—	—	—															Bubble in Viles; No odor
6	MW-28				1220	—	—	—															Strong odor
7	MW-29				1015	—	—	—															Mild odor
8	MW-41				1455	—	—	—															
9	MW-42				1440	—	—	—															
10	MW-43				1430	—	—	—															
11	PW-1				1345	—	—	—															~~Slight odor~~
12	PW-2				1300	—	—	—															~~Mild odor~~

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
PW-1: No odor	Dalton Reaves	12/18/07	1930				
PW-2: Slight odor							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Dalton Reaves
SIGNATURE of SAMPLER: Dalton Reaves
DATE Signed (MM/DD/YY): 12/18/07

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

2

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 2 of 3

1136796

Section A Required Client Information:

Company: SCDHEC-UST
Address: 2600 Bull St. Columbia, SC 29201
Email To:
Phone: 803.896.6240 Fax: 803.896.6245
Requested Due Date/TAT: 7 Day

Section B Required Project Information:

Report To: D. Thoma
Copy To:
Purchase Order No.: 587465
Project Name: George Souther's Grocery
Project Number: 08650 / CA: 31083

Section C Invoice Information:

Attention: Finance
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☒ UST ☐ RCRA ☐ OTHER

Site Location STATE: SC

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): BTEX MW (8260B) Y; 8-Oxygenates Y; 1,2 DCA (8260B) Y; EDB (SOIL) Y

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	BTEX MW (8260B)	8-Oxygenates	1,2 DCA (8260B)	EDB (SOIL)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	DW-1	WT	G	12/17	1150	—	—		6				6					X	X	X	X		Mild Odor
2	DW-2			12/17	1630	—	—																Slight Odor
3	DW-5			12/17	1100	—	—																Mild Odor
4	DW-6			12/17	1515	—	—																
5	MW-6R			12/18	945	—	—	—															Strong Odor
6	MW-11			12/18	1055	—	—	—															Mild Odor
7	MW-13R			12/18	900	—	—	—															Mild Odor
8	MW-15R			12/18	915	—	—	—															Mild Odor
9	MW-16			12/18	1245	—	—	—															
10	MW-19			12/18	1315	—	—	—															Mild Odor
11	MW-20			12/18	1255	—	—	—															Slight Odor
12	MW-21			12/18	1130	—	—	—															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature]	12/18/07	1730	[signature]	12/18/07	1730	4.0 / Y / N / Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Dalton Raines

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 12/18/07

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

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CHAIN-OF-CUSTODY / Analytical Request Document

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1136798

Section A Required Client Information:

Company: SCDHEC-UST
Address: 2600 Bull St. Columbia, SC 29201
Email To:
Phone: 803 896.6240 Fax: 803 896.6245
Requested Due Date/TAT: 7 Day

Section B Required Project Information:

Report To: D. Thomas
Copy To:
Purchase Order No.: 587465
Project Name: George Saylor's Grocery
Project Number: 08650 / CA: 51083

Section C Invoice Information:

Attention: Finance
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER

Site Location STATE: SC

Section D Required Client Information

Matrix Codes (MATRIX / CODE): Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N): BTEX MW (8260B) N; 8-Oxygenates N; 1,2 DCA (8260B) N; EDB (8011) N

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start DATE	Composite Start TIME	Composite End/Grab DATE	Composite End/Grab TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	BTEX MW (8260B)	8-Oxygenates	1,2 DCA (8260B)	EDB (8011)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-22	WT	G	12/18	1120	—	—	—	6				6					X	X	X	X		
2	MW-25			12/18	930	—	—																Mild Odor
3	MW-34			12/18	1220	—	—	—															
4	MW-40			12/18	1200	—	—	—															Slight Odor
5	DW-3			12/18	1015	—	—	—															
6	DW-4			12/18	1350	—	—	—															Mild Odor
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature]	12/18/07	1930	[signature]			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: D. Ken Reaves
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 12/18/07

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

2

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

SITE ACTIVITY SUMMARY

UST PERMIT # 08650
FACILITY NAME George Souther's Grocery
COUNTY Spartanburg
NAME OF SAMPLER Dalton Reames

Sample ID	sampled?	Date	Time	Depth of Well	Depth to Water	Depth to Product	FP Thickness	# gal purged	comments
MW-1	N	12/17/07	—	7-17	Dry	—	—	—	Dry; Strong Odor @ TOC
MW-2	N	12/17/07	—	7-17	Dry	—	—	—	Dry
MW-3	N	12/17/07	—	9-19	Dry	—	—	—	Dry; odor @ TOC
MW-4	Y	12/17/07	1205	9-19	16.66	—	—	—	—
MW-5	N	12/17/07	—	9.5-19.5	18.90	18.29	0.61	—	Free Product Present
MW-6R	Y	12/18/07	945	5-20	16.52	—	—	—	Strong Odor
MW-7	N	12/18/07	—	9-19	18.60	—	—	—	Not Enough H2O to Sample
MW-8	N	12/18/07	—	8-18	Dry	—	—	—	Dry; Strong Odor @ TOC
MW-9	N	12/17/07	—	14-24	23.42	—	—	—	Not enough H2O to Sample
MW-10R	N	12/17/07	—	2-17	Dry	—	—	—	Silted up at Bottom; Stick up-17" from TOC.
MW-11	Y	12/18/07	1055	13-23	20.45	—	—	—	Mild Odor; No well Cap
MW-12	N	12/17/07	—	15-25	—	—	—	—	* See Below
MW-13R	Y	12/18/07	900	2-17	17.55	—	—	—	Mild Odor
MW-14R	Y	12/17/07	1545	2-17	12.52	—	—	—	Could not Eliminate Bubbles
MW-15R	Y	12/18/07	915	2-17	14.66	—	—	—	Mild Odor
MW-16	Y	12/18/07	1245	15-35	22.80	—	—	—	—
MW-17	Y	12/17/07	1035	15-35	19.75	—	—	—	—
MW-18R	N	12/18/07	—	15-30	Dry	—	—	—	Dry
MW-19	Y	12/18/07	1315	20-40	29.58	—	—	—	Mild Odor
MW-20	Y	12/18/07	1255	16-36	31.64	—	—	—	Slight Odor
MW-21	Y	12/18/07	1130	5-20	12.72	—	—	—	—
MW-22	Y	12/18/07	1120	5-20	16.35	—	—	—	—
MW-23	N	12/18/07	—	8-23	Dry	—	—	—	Dry @ TD of 21.85'
MW-24	Y	12/17/07	1645	5-20	15.70	—	—	—	Slight Odor?
MW-25	Y	12/18/07	930	5-20	14.04	—	—	—	Mild Odor
MW-26	Y	12/17/07	1555	2-17	16.23	—	—	—	Very Silty; Could not Eliminate Bubbles
MW-27	N	12/17/07	—	2-17	Dry	—	—	—	Dry
MW-28	Y	12/17/07	1220	10-25	18.90	—	—	—	Strong Odor
MW-29	Y	12/17/07	1015	15-30	26.03	—	—	—	Mild Odor
MW-30	N	12/17/07	—	15-30	Dry	—	—	—	Dry
MW-31	N	12/17/07	—	15-30	Dry	—	—	—	Dry

* MW-12: Could not locate; New mobile home on site; Construction worker on site told me that well was covered during construction @ of Mobile Home Footing.

SITE ACTIVITY SUMMARY

UST PERMIT # 08650
FACILITY NAME George Souther's Grocery
COUNTY Spartanburg
NAME OF SAMPLER Dalton Reames

Sample ID	sampled?	Date	Time	Depth of Well	Depth to Water	Depth to Product	FP Thickness	# gal purged	comments
MW-32	N	12/18/07	—	30'	Dry	—	—	—	Dry @ TD of 27.15'; Strong odor @ TOC
MW-33	N	12/18/07	—	27.55'	Dry	—	—	—	Dry @ TD of 27.55'; No well cap
MW-34	Y	12/18/07	1220	40'	21.05	—	—	—	N/O; No well cap
MW-35	N	12/18/07	—	30'	Dry	—	—	—	Dry @ TD of 27.30'
MW-36	N	12/18/07	—	25'	Dry	—	—	—	Dry @ TD of 23.29' (Silted @ Bottom)
MW-37	N	12/18/07	—	17'	Dry	—	—	—	Dry
MW-38	N	12/18/07	—	17'	Dry	—	—	—	Dry
MW-39	N	12/18/07	—	17'	BPO(TOC)	—	—	—	Not enough H2O to Sample
MW-40	Y	12/18/07	1200	40'	34.00	—	—	—	Slight odor
MW-41	Y	12/17/07	1455	40'	31.79	—	—	—	—
MW-42	Y	12/17/07	1440	40'	31.42	—	—	—	—
MW-43	Y	12/17/07	1430	40'	31.41	—	—	—	—
MW-44	N	12/18/07	—	32.98'	Dry	—	—	—	TD < 33'; Dry
MW-45	N	12/17/07	—	30'	Dry	—	—	—	Dry
RW-1	N	12/17/07	—	30'	20.56	20.52	0.04	—	Free Product Present
PW-1	Y	12/17/07	1345	47'	20.65	—	—	5.0	N/O
PW-2	Y	12/17/07	1300	75'	22.27	—	—	5.0	N/O
DW-1	Y	12/17/07	1150	90'	17.25	—	—	5.0	N/O
DW-2	Y	12/17/07	1630	75'	13.77	—	—	5.0	N/O
DW-3	Y	12/18/07	1045	65'	20.31	—	—	5.0	N/O
DW-4	Y	12/18/07	1350	67'	20.75	—	—	5.0	N/O
DW-5	Y	12/17/07	1100	75'	24.76	—	—	5.0	N/O
DW-6	Y	12/17/07	1515	75'	30.26	—	—	5.0	N/O

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): 12/17/07

Field Personnel: Dalton Reames

General Weather Conditions: Sunny/Cold

Ambient Air Temperature: _____ °C 37°F

Quality Assurance

pH Meter		Conductivity Meter	
serial no.	09642	serial no.	103631
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: George Southers Grocery

Site ID#: 08650 **Monitoring Well #** DW-1

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): .166 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) 17.25 feet
Total Well Depth (TWD) 90.00 feet
Length of the water column (LWC=TWD-DGW) 72.75 feet
1 casing volume (CV=LWC X C)=72.75 X .166 = 12.0 gals
3 casing volume (3 X CV)= 36.0 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 5.0 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol 2.0	2nd Vol 2.0	3rd Vol 1.0	4th Vol	5th Vol	Post Sampling	
Time (military)		1141	1146	1149				
pH (s.u.)		9.58	9.67	9.69				
Specific Conductivity (µmhos/cm)		247	253	246				
Water Temperature (°C)		19.7	19.3	19.0				
Dissolved Oxygen	N/A							
PID readings, if required	—							

Remarks: N/O ; No Room for well cap ; Vault Bent/Slanted ; Sampled @ 1150

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): 12/17/01

Field Personnel: Dalton Reames

General Weather Conditions: Sunny / Cool

Ambient Air Temperature: _____ °C 49°F

Quality Assurance

pH Meter		Conductivity Meter	
serial no.	09642	serial no.	103631
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: George Souther's Grocery

Site ID#: 08650 **Monitoring Well #** DW-2

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): .166 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) 13.77 feet
Total Well Depth (TWD) 75.00 feet
Length of the water column (LWC=TWD-DGW) 61.23 feet
1 casing volume (CV=LWC X C)= 61.23 X .166 = 10.0 gals
3 casing volume (3 X CV)= 30.0 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 5.0 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol 2.0	2nd Vol 2.0	3rd Vol 1.0	4th Vol	5th Vol	Post Sampling	
Time (military)		1622	1627	1630				
pH (s.u.)		11.94	11.80	11.49				
Specific Conductivity (µmhos/cm)		3.82	3.70	3.70				
Water Temperature (°C)		25.8	25.0	24.7				
Dissolved Oxygen	N/A							
PID readings, if required	—							

Remarks: [redacted] N/O Sampled @ 1630

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): 12/18/07

Field Personnel: Dalton Reames

General Weather Conditions: Sunny/Cold

Ambient Air Temperature: _____ °C 35°F

Quality Assurance

pH Meter		Conductivity Meter	
serial no.	09642	serial no.	103631
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: George Souther's Grocery

Site ID#: 08650 **Monitoring Well #** DW-3

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): .166 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) 20.31 feet
Total Well Depth (TWD) 65.00 feet
Length of the water column (LWC=TWD-DGW) 44.69 feet
1 casing volume (CV=LWC X C)=44.69 X .166 = 7.5 gals
3 casing volume (3 X CV)= 22.5 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 5.0 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol 2.0	2nd Vol 2.0	3rd Vol 1.0	4th Vol	5th Vol	Post Sampling	
Time (military)		1034	1041	1045				
pH (s.u.)		9.45	9.27	9.15				
Specific Conductivity (µmhos/cm)		76.3	75.8	74.1				
Water Temperature (°C)		17.3	17.1	17.0				
Dissolved Oxygen	N/A							
PID readings, if required	—							

Remarks: Clear - N/O Sampled @ 1045

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): 12/18/07

Field Personnel: Dalton Reames

General Weather Conditions: M. Cloudy / Cool

Ambient Air Temperature: _____ °C 47°F

Quality Assurance

pH Meter		Conductivity Meter	
serial no.	09642	serial no.	103631
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: George Souther's Grocery

Site ID#: 08650 **Monitoring Well #** DW-4

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): .166 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) 20.75 feet
Total Well Depth (TWD) 67.00 feet
Length of the water column (LWC=TWD-DGW) 46.25 feet
1 casing volume (CV=LWC X C)=46.25 X .166 = 7.75 gals
3 casing volume (3 X CV)= 23.25 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 5.0 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol 2.0	2nd Vol 2.0	3rd Vol 1.0	4th Vol	5th Vol	Post Sampling	
Time (military)	1L	1340	1346	1350				
pH (s.u.)	↓	9.56	9.43	9.43				
Specific Conductivity (µmhos/cm)	↓	303	297	300				
Water Temperature (°C)	↓	18.6	18.0	17.9				
Dissolved Oxygen	N/A							
PID readings, if required	—							

Remarks: [redacted] N/O Sampled @ 1350

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): 12/17/07

Field Personnel: Dalton Reames

General Weather Conditions: Sunny/Cold

Ambient Air Temperature: _____ °C 35°F

Quality Assurance

pH Meter		Conductivity Meter	
serial no.	09642	serial no.	103631
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: George Souther's Grocery

Site ID#: 08650 **Monitoring Well #** DW-5

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): .166 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) 24.76 feet
Total Well Depth (TWD) 75.00 feet
Length of the water column (LWC=TWD-DGW) 50.24 feet
1 casing volume (CV=LWC X C)=50.24 X .166 =8.25 gals
3 casing volume (3 X CV)= 24.75 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 5.0 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol 2.0	2nd Vol 2.0	3rd Vol 1.0	4th Vol	5th Vol	Post Sampling	
Time (military)	12	1050	1055	1058				
pH (s.u.)	↓	6.95	6.81	6.69				
Specific Conductivity (µmhos/cm)	↓	129.8	127.7	129.1				
Water Temperature (°C)	↓	20.1	19.7	19.3				
Dissolved Oxygen	N/A							
PID readings, if required	—							

Remarks: No Odor; No Room for Well Cap; Sampled @ 1100

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): 12/17/01

Field Personnel: Dalton Reames

General Weather Conditions: Sunny/Cool

Ambient Air Temperature: _____ °C 50°F

Quality Assurance

pH Meter		Conductivity Meter	
serial no.	09642	serial no.	103631
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: George Souther's Grocery

Site ID#: 08650 **Monitoring Well #** DW-6

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): .166 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)	30.26	feet
Total Well Depth (TWD)	75.00	feet
Length of the water column (LWC=TWD-DGW)	44.74	feet

1 casing volume (CV=LWC X C)= 44.74 X .166 = 7.5 gals
3 casing volume (3 X CV)= 22.5 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 5.0 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol 2.0	2nd Vol 2.0	3rd Vol 1.0	4th Vol	5th Vol	Post Sampling	
Time (military)		1507	1512	1515				
pH (s.u.)		8.05	8.00	7.90				
Specific Conductivity (µmhos/cm)		372	363	354				
Water Temperature (°C)		18.7	18.3	18.3				
Dissolved Oxygen	N/A							
PID readings, if required	—							

Remarks: Clear - N/O

Sampled @ 1515

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): 12/17/07

Field Personnel: Dalton Reames

General Weather Conditions: Sunny/Cool

Ambient Air Temperature: ____ °C 45°F

Quality Assurance

pH Meter		Conductivity Meter	
serial no.	09642	serial no.	103631
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: George Southern's Grocery

Site ID#: 08650 **Monitoring Well #** PW-1

Water Supply Well **Public** ____ **Private** ____

Monitoring Well Diameter (D): .166 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) 20.65 feet
Total Well Depth (TWD) 47.00 feet
Length of the water column (LWC=TWD-DGW) 26.35 feet
1 casing volume (CV=LWC X C)= 26.35 X .166 = 4.25 gals
3 casing volume (3 X CV)= 12.75 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 5.0 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol 2.0	2nd Vol 2.0	3rd Vol 1.0	4th Vol	5th Vol	Post Sampling	
Time (military)	1[illegible]	1336	1341	1344				
pH (s.u.)	↓	8.02	7.90	7.81				
Specific Conductivity (µmhos/cm)	↓	84.8	81.6	81.3				
Water Temperature (°C)	↓	21.4	20.6	20.5				
Dissolved Oxygen	N/A							
PID readings, if required	/							

Remarks: Clear-No Sampled @ 1345

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): 12/17/07

Field Personnel: Dalton Reames

General Weather Conditions: Sunny/Cool

Ambient Air Temperature: _____ °C 43°F

Quality Assurance

pH Meter		Conductivity Meter	
serial no.	09642	serial no.	103631
pH=4.0	—	standard	—
pH=7.0	—	standard	—
pH=10.0	—	standard	—

Chain of Custody

Dalton Reames

Relinquished by Date/Time Received by Date/Time

Facility Name: George Souther's Grocery

Site ID#: 08650 **Monitoring Well #** PW-2

Water Supply Well **Public** _____ **Private** _____

Monitoring Well Diameter (D): .166 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) 22.27 feet
Total Well Depth (TWD) 75.00 feet
Length of the water column (LWC=TWD-DGW) 52.73 feet
1 casing volume (CV=LWC X C)= 52.73 X .166 = 8.75 gals
3 casing volume (3 X CV)= 26.25 gals (standard purge volume)

Total Volume of Water Purged Before Sampling 5.0 gals.
*If free product is present over 1/8 inch, sampling will not be required.

Cumulative Volume Purged (gallons)	Inital	1st Vol 2.0	2nd Vol 2.0	3rd Vol 1.0	4th Vol	5th Vol	Post Sampling	
Time (military)	NL	1257	1257	1300				
pH (s.u.)	↓	8.24	8.13	8.01				
Specific Conductivity (µmhos/cm)	↓	178.7	181.3	182.6				
Water Temperature (°C)	↓	21.3	20.6	20.5				
Dissolved Oxygen	N/A							
PID readings, if required	—							

Remarks: [redacted] NO Sampled @ 1300

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

UST DOCKET

NOV 0 4 2010

MR GEORGE E SOUTHER
280 GOODJOIN ROAD
CAMPOBELLO SC 29322

Re: **AFVR and Comprehensive Survey Directive**
George Souther's Grocery (former), 280 Goodjoin Road, Campobello, SC
UST Permit #08650; Cost Agreement #40320
Release reported December 31, 1991
Report of Recovery Well Installation/Water Supply Well Abandonment received October 11, 2010
Spartanburg County

Dear Mr. Souther:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (SCDHEC) recognizes your commitment to continue work at this site using Bunnell-Lammons Engineering, Inc. (BLE) as your contractor. The UST Division has determined the next necessary scope of work is to conduct multiple Aggressive Fluid Vapor Recovery (AFVR) events to remove free-phase petroleum product, hydrocarbon vapors, and petroleum-impacted groundwater. A manifolded AFVR event should be conducted on wells RW-1 and MW-5, and individual AFVR events should be conducted on wells MW-7 and RW-2. The AFVR events may be conducted on consecutive days. In addition, due to the elevation discrepancies observed from the October 1, 2010 survey of RW-2 and several existing monitoring wells, a comprehensive survey should be performed to tie in all wells associated with the site to a common vertical datum.

Cost Agreement #40320 has been approved in the amount shown on the enclosed cost agreement form for the aforementioned scope of work. The AFVR activities may proceed immediately upon receipt of this letter. The report submitted at the completion of these activities should include the following:

- A narrative portion documenting the AFVR events noting site conditions, the name of the AFVR contractor, field personnel, date, time the AFVR events started and ended, ambient air temperature, and general weather conditions during the AFVR events.
- A brief description of the completed work scope and any relevant descriptions pertaining to the data tables.
- A table summarizing the airflow (in CFM) and volatile air emissions concentrations collected from the stack of the truck every thirty minutes through the duration of the events. The table shall also document which well(s) were being recovered from during that time interval.
- A table summarizing the magnehelic gauge measurements from all applicable wells on a thirty-minute time interval.
- The total volume of water recovered (gallons).

- The total volume of free-phase petroleum product recovered (typically measured with a product/water interface device inserted into the top of the tanker at the completion of the event and then converted to an approximate volume). Wells containing free-phase product should be gauged at the beginning and end of the AFVR event with the data documented in a table.
- The total weight of petroleum removed as vapor. This is calculated based on the airflow rate and the concentration of vapor.
- A table documenting the free product thickness in each well before and after the recovery events.
- Scaled base map depicting the location of the extraction wells and the surrounding wells equipped with magnehelic gauges.
- Recovered free phase petroleum and groundwater must be accepted by a permitted treatment facility. There can be no spillage or leakage in transport. A copy of the disposal manifest from the receiving facility that clearly designates the quantity received must be included as an appendix to the final report.

Magnehelic gauges must be installed on the extraction well and monitoring wells immediately surrounding the extraction well. The AFVR events should be completed by establishing a vacuum on the subsurface through the existing monitoring wells. The unit must be capable of providing a minimum airflow of 250 cubic feet per minute (CPM) at 25 inches of Mercury vacuum. An airtight seal must be established on the top of the extraction well. The drop tube or "stinger" inserted into the extraction well should have an inside diameter of at least one inch and should initially be installed six inches below the bottom of the free-phase product (product) or at the top of the water table interface if product is not present. After the first two hours, the height of the stinger may be adjusted up or down at six-inch intervals while monitoring the petroleum vapor recovery. If a stinger depth is found that results in a higher petroleum vapor recovery, then the stinger should remain at that depth until such time as the vapor recovery falls off. At that time, the height of the stinger may be readjusted as described above. If at any time during the event, the water recovery exceeds 4 gallons per minute (gpm), the stinger should be raised at six-inch intervals until the water recovery drops back below 4 gpm. **The overall goal is to maximize the recovery of product and petroleum vapors in the capillary fringe and to minimize the recovery of groundwater.**

BLE 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.

An AFVR report and invoice are due within sixty (60) days from the date of this letter. Interim invoices may not be submitted for this scope of work. If the invoice is not submitted within one hundred twenty (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 UST 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 UST Division 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, the 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 SCDHEC grants pre-approval for transportation of virgin petroleum impacted 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.

On all correspondence concerning this directive and site, please reference **UST Permit #08650 and CA #40320.** If there are any questions concerning this project, please contact me by telephone at (803) 896-4078, by fax at (803) 896-6245 or by e-mail at RIVERSMS@dhec.sc.gov.

Sincerely,

Michael Rivers

Michael (Mike) Rivers, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Mr. Trevor J. Benton, P.G., Bunnell-Lammons Engineering, Inc., 6004 Ponders Court, Greenville, SC 29615 (w/ enc)
Technical File (w/ enc)

MR/AFVRDIR10.19.10

Approved Cost Agreement 40320

Facility: 08650 GEORGE SOUTHER'S GROCERY
RIVERSMS
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
03 COMPREHENSIVE SURVEY						
			COMPREHENSIVE SURVEY	2.0000	1,000.00	2,000.00
04 MOB/DEMOB						
		A	EQUIPMENT	3.0000	575.00	1,725.00
		B	PERSONNEL	3.0000	290.00	870.00
17 DISPOSAL						
		A2	WASTEWATER - PUMPING TEST	4,000.0000	0.60	2,400.00
19 RPT/PROJECT MNGT & COORDINATIO						
		PCT	PERCENT	0.1500	16,835.00	2,525.25
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		19,360.25

BLE
BUNNELL-LAMMONS ENGINEERING, INC.
GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

UST
JUN 21 2011
PROGRAM

June 16, 2011

South Carolina Department of Health and Environmental Control
Underground Storage Tank Program
Bureau of Land and Waste Management
2600 Bull St.
Columbia, SC 29201-1708

Attention: Mr. Mike Rivers
Hydrogeologist

Subject: **Report of Aggressive Fluid Vapor Recovery Events and Comprehensive Survey**
George Souther's Grocery
280 Goodjoin Road, Campobello, SC
Spartanburg County
UST Permit #08650; CA #40320
BLE Project ~~No. J10~~-7051-03

UST DOCKET

Dear Mr. Rivers:

On behalf of Mr. George Souther, Bunnell-Lammons Engineering, Inc. (BLE) has completed four aggressive fluid vapor recovery events (AFVRs) and performed a comprehensive site survey at the subject site. This scope of work was performed in response to South Carolina Department of Health and Environmental Control's (SCDHEC) directive, dated November 4, 2010. The results of our activities are provided herein. Please feel free to contact us if you have any questions concerning this report.

Sincerely,

BUNNELL-LAMMONS ENGINEERING, INC.

Trevor J. Benton, P.G.
Project Hydrogeologist
Registered, South Carolina No. 2395

TREVOR J. BENTON REGISTERED No. 2395 SOUTH CAROLINA PROFESSIONAL GEOLOGIST

Thomas L. Lammons, P.G
Principal Hydrogeologist
Registered, South Carolina No. 893

PROFESSIONAL GEOLOGIST REGISTERED No. 893 SOUTH CAROLINA THOMAS L. LAMMONS

cc: Mr. George Souther, 280 Goodjoin Road, Campobello, SC 29322

6004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615

PHONE (864) 288-1265
FAX (864) 288-4430

PROJECT INFORMATION

The subject property is located at the intersection of Goodjoin Road and Mt. Lebanon Road in Campobello, South Carolina (Figure 1). The site currently operates as a convenience store and petroleum retail store. Structures on the property consist of a convenience store/office building, a canopy, fuel dispenser islands, and four active underground storage tanks registered under UST Permit #14391. Adjacent parcels primarily consist of residential properties and woodlands.

In December 1991, one 550-gallon kerosene UST, one 3,000-gallon diesel UST, one 4,000-gallon gasoline UST, and three 3,000-gallon gasoline USTs were abandoned at the site. The tanks were replaced by one 2,000-gallon kerosene UST, one 2,000-gallon diesel UST, one 6,000-gallon gasoline UST, and one 10,000-gallon gasoline UST (under new UST permit #14391) and are currently in operation today. In response to a release of petroleum contaminants detected during the UST closure, 53 groundwater monitoring wells have been installed by other contractors to assess groundwater contamination at the site.

On November 4, 2009, BLE was retained as the contractor of choice for this site by Mr. George E. Souther. On May 5, 2010, BLE personnel visited the site to investigate a water supply well located in the crawlspace of the convenience store. A five-foot diameter, unsealed, hand dug water supply well was observed in the crawlspace. The well was 29.5 feet deep and contained 0.8 feet of petroleum free-product at the time of our measurement (approximately 117.5 gallons). Conversations with store employees indicated that strong petroleum odors were frequently detected in the store. On May 6, 2010, BLE personnel remobilized to the site with an explosimeter to evaluate the petroleum vapor concentrations in the crawl space of the store. Explosive conditions (100% of the lower explosive limit (LEL)) were noted in the immediate vicinity of the water supply well; therefore, as an emergency abatement procedure, BLE personnel immediately installed and secured a vapor barrier over the well.

In an effort to utilize this well as a future free-product recovery point, BLE recommended to construct a 4-inch diameter recovery well inside of the water supply well prior to closure. The filter pack medium consisted of pea gravel in the annulus between the 4-inch well casing and five-foot

diameter uncased (dug) well. The well annulus was sealed to the ground surface with bentonite and neat cement grout. By this well completion, flammable vapors within the building crawl space were mitigated. The recovery well (RW-2) was installed and piped to the exterior of the facility, where free-product removal could be conducted via aggressive fluid vapor recovery (AFVR). The recovery well (RW-2) was installed on July 13-14, 2010. The piping and drop-tube for RW-2 was plumbed to the exterior rear of the building and completed in a standard 2-foot by 2-foot concrete pad.

In a directive dated November 4, 2010 (and addendum dated November 22, 2010), SCDHEC required AFVR events be performed at the site, to remove free-phase product and to reduce concentrations of dissolved chemicals of concern (CoCs). AFVR events were to be conducted on monitoring wells MW-5, MW-7, RW-1, and RW-2. Additionally, due to discrepancies in well locations and elevation data from the prior comprehensive site survey (performed by others), an updated comprehensive site survey was completed at the site. The results of the current scope of work are documented in this report.

AGGRESSIVE FLUID VAPOR RECOVERY EVENTS

On November 12, 19, and 21, 2010, and December 13, 2010, BLE personnel mobilized to the site to perform AFVR events on existing monitoring/recovery wells MW-5, MW-7, RW-1, and RW-2. A hydrogeologist from BLE was on site for observation and monitoring during each event. The AFVR events were performed by Landprobe Drilling Services (Landprobe) of Greenville, South Carolina. A site and well location plan is shown as Figure 2. The results of each AFVR event are provided below.

AGGRESSIVE FLUID VAPOR RECOVERY EVENT #1 – NOVEMBER 12, 2010

On November 12, 2010, the first 8-hour AFVR event was conducted in monitoring well MW-7. Prior to initiating the event, BLE personnel gauged the monitoring well using a Solinst® Interface Meter Model 122. Approximately 0.37 feet of free-phase petroleum product was detected in the well (Figure 2). The initial depth to groundwater readings in the source area wells are presented in Table 1.

The AFVR event was initiated at 0815 and concluded at 1615. The general weather conditions observed during this period of time were sunny skies; winds varied between 3 and 9 miles per hour (mph) with an ambient temperature between 50° and 65° Fahrenheit. Throughout the duration of the AFVR event, a continuous vacuum of 19 to 26 inches of mercury was applied to MW-7. In addition to collecting vacuum readings, the depth to water (feet below top of casing (btoc)) was measured every 30 minutes in nearby monitoring well MW-6R to evaluate drawdown. Gauging data observed during the event is shown in Table 1.

Due to the close proximity of the site to a populated area, volatile air emissions were treated on-site by Landprobe personnel using a granular activated carbon (GAC) unit. Influent and effluent vapor concentrations were measured every 30 minutes throughout the event using a MiniRAE® 2000 portable Photo-Ionization Detector (PID). The observed influent and effluent vapor concentrations are shown in Table 1.

At the completion of the AFVR event, a total volume of 143 gallons of petroleum impacted groundwater was determined to have been recovered from the site. No free-phase product was measured in the holding tanks at the end of the AFVR event. Please note that petroleum losses occur from volatilization during an AFVR event. Additionally, the measurement of free-product in the recovery tank is affected by emulsification with the groundwater which occurs as a result of the AFVR process. Therefore, the liquids may not have had sufficient time to separate in order to obtain an accurate free-product thickness measurement. Waste transportation and disposal records for the petroleum impacted groundwater recovered during the AFVR event are provided in Appendix A.

A total of approximately 2.15 pounds of gasoline vapor which is equivalent to approximately 0.34 gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR emissions calculations for this event are provided as Table 1A.

MW-7 was gauged immediately following the conclusion of the event and no free-phase product was detected in the well. Total water level changes for this event are shown in Table 1.

AGGRESSIVE FLUID VAPOR RECOVERY EVENT #2 – NOVEMBER 19, 2010

On November 19, 2010, the second 8-hour AFVR event was conducted in recovery well RW-1. Prior to initiating the event, BLE personnel gauged the monitoring well using a Solinst® Interface Meter Model 122. Approximately 3.06 feet of free-phase petroleum product was detected in the well (Figure 2). The initial depth to groundwater readings in the source area wells are presented in Table 1.

The AFVR event was initiated at 0815 and concluded at 1615. The general weather conditions observed during this period of time were sunny skies; winds varied between 5 and 10 mph with an ambient temperature between 45° and 60° Fahrenheit. Throughout the duration of the AFVR event, a continuous vacuum of 21 to 23 inches of mercury was applied to RW-1. In addition to collecting vacuum readings, the depth to water (feet btoc) was measured every 30 minutes in nearby monitoring well MW-1 to evaluate drawdown. Gauging data observed during the event is shown in Table 1.

Due to the close proximity of the site to a populated area, volatile air emissions were treated on-site by Landprobe personnel using a GAC unit. Influent and effluent vapor concentrations were measured every 30 minutes throughout the event using a MiniRAE® 2000 portable PID. The observed influent and effluent vapor concentrations are shown in Table 2.

At the completion of the AFVR event, a total volume of 569 gallons of petroleum impacted groundwater was determined to have been recovered from the site. No free-phase product was measured in the holding tanks at the end of the AFVR event. Please note that petroleum losses occur from volatilization during an AFVR event. Additionally, the measurement of free-product in the recovery tank is affected by emulsification with the groundwater which occurs as a result of the AFVR process. Therefore, the liquids may not have had sufficient time to separate in order to obtain an accurate free-product thickness measurement. Waste transportation and disposal records for the petroleum impacted groundwater recovered during the AFVR event are provided in Appendix A.

A total of approximately 3.62 pounds of gasoline vapor which is equivalent to approximately 0.58

measured every 30 minutes throughout the event using a MiniRAE® 2000 portable PID. The observed influent and effluent vapor concentrations are shown in Table 4.

At the completion of the AFVR event, a total volume of 190 gallons of petroleum impacted groundwater was determined to have been recovered from the site. No free-phase product was measured in the holding tanks at the end of the AFVR event. Please note that petroleum losses occur from volatilization during an AFVR event. Additionally, the measurement of free-product in the recovery tank is affected by emulsification with the groundwater which occurs as a result of the AFVR process. Therefore, the liquids may not have had sufficient time to separate in order to obtain an accurate free-product thickness measurement. Waste transportation and disposal records for the petroleum impacted groundwater recovered during the AFVR event are provided in Appendix A.

A total of approximately 1.62 pounds of gasoline vapor which is equivalent to approximately 0.26 gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR emissions calculations for this event are provided as Table 4A.

RW-2 was gauged immediately following the conclusion of the event and no free-phase product was detected in the well. Total water level changes for this event are shown in Table 4.

COMPREHENSIVE SURVEY AND WELL EVALUATION

Due to discrepancies in well locations and elevation data from the prior comprehensive site survey (performed by others), an updated comprehensive site survey was completed at the site. The existing well locations were surveyed by Souther Land Surveying (George B. Souther - PLS 21232) of Inman, South Carolina on January 17, 2011 to establish horizontal control and vertical elevations of the top of PVC casings and ground surface. Additionally, on March 3, 2011, BLE mobilized to the site and performed a well evaluation at each monitoring well location. Each location was verified, and the total well depth and depth to groundwater was measured. Monitoring wells MW-44 and MW-45 were not located during the survey/well evaluation. Additionally, monitoring wells MW-2, MW-3, MW-18R, MW-32, PMW-2, and PMW-3 were dry at the time of measurement. Updated well data is provided as Table 5. The comprehensive site survey is provided as Figure 3.

RECOMMENDATIONS

In an effort to fully define the extent of the free-product plume and to provide maximum coverage for free-product recovery, we recommend the re-installation of dry monitoring wells MW-2, MW-3, and MW-32. These wells have exhibited free-product or near free-product concentrations in prior sampling events. Additionally, the wells should be installed with 20-foot (minimum) well screens to provide maximum vapor removal from the vadose zone. After installation of the new wells, we recommend a series of five additional 8-hour AFVR events be conducted to 1) remove free-phase product from the area around the extraction points, 2) remove petroleum hydrocarbon vapors from the unsaturated zone, and 3) remove petroleum impacted groundwater from the subsurface. We recommend performing additional AFVRs in the following well combinations:

- RW-1 and MW-3R (proposed);
- MW-2 (proposed);
- MW-5;
- MW-7; and
- RW-2.

The AFVR events should be performed in each well or group of wells, on consecutive days. Approximately 30 days after the final AFVR event, we recommend a comprehensive groundwater sampling event be conducted to evaluate contaminant concentration trends. According to our records, the last comprehensive groundwater sampling event was performed in December 2007/January 2008.

QUALIFICATION OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessments of this type. Our evaluation of site conditions has been based on our understanding of the site and project information and the data obtained in our exploration.

This report has been prepared on behalf of and exclusively for the use of Mr. George Souther. This report and the findings contained herein shall not, in whole or in part, be used or relied upon by any other party without BLE's prior written consent. Any unauthorized use or distribution of BLE's work shall be at third parties risk and without liability to BLE.

TABLES

TABLE 1

AFVR Gauging Data (MW-7) - November 12, 2010
George Souther's Grocery
Campobello, South Carolina
SCDHEC UST Permit #08650; Cost Agreement #40320
BLE Project Number J10-7051-03

	Monitoring Well Gauging Data			Air Emissions	
	Vacuum (in. of Hg)	Depth to Free-Product / Water (feet BTOC)		Influent (ppm)	Effluent (ppm)
Time	MW-7	MW-7	MW-6R		
0815	19.0	17.43 / 17.80	15.10	661	17
0845	23.0	AFVR EVENT	15.11	467	14
0915	24.0		15.11	742	14
0945	24.0		15.11	949	17
1015	24.0		15.11	984	11
1045	24.0		15.11	870	32
1115	24.0		15.11	1,141	20
1145	25.0		15.10	981	19
1215	25.0		15.10	710	17
1245	25.0		15.09	1,106	27
1315	25.0		15.08	1,045	15
1345	25.0		15.08	1,260	20
1415	25.0		15.07	1,298	20
1445	25.0		15.07	1,072	30
1515	25.0		15.06	1,090	32
1545	25.0		15.06	1,160	32
1615	25.0	18.13	15.06	852	39
	Initial Free Product (feet)	**0.37**	**0.00**		
	Final Free Product (feet)	**0.00**	**0.00**		

NOTES:
AFVR event performed on November 12, 2010
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
0.37 feet of free-product was detected in MW-7 prior to initiating the AFVR event.
in. of Hg - inches of mercury
BTOC - below top of casing
ppm - parts per million
ND - Not Detected

Prepared By: TJB
Checked By : IAI

TABLE 1A

AFVR Emissions Field Data - November 12, 2010
George Souther's Grocery
Campobello, South Carolina
SCDHEC UST Permit #08650; Cost Agreement #40320
BLE Project Number J10-7051-03

WELL ID #: MW-7

AFVR FIELD MEASUREMENTS									EMISSION CALCULATIONS								
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	$PPM_{measured}$ (ppm)	Elapsed Time (hr:min)	Q_{std} (DSCFM)	PPM_d	PPM_c	K	C_{cm} (mg/dsm3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	PMR_g (gal/hr)
11/12/2010	0815	19.0	429	3	48.7	79.2	661	00:00	21.24	680.17	2,720.67	4	1,357.51	8.47E-05	0.11	0.13	0.02
11/12/2010	0845	25.5	760	3	57.9	76.7	467	00:30	36.96	480.54	1,922.17	4	959.09	5.99E-05	0.13	0.15	0.02
11/12/2010	0915	26.0	741	3	64.9	76.3	742	01:00	35.56	763.52	3,054.07	4	1,523.86	9.51E-05	0.20	0.23	0.04
11/12/2010	0945	25.5	760	3	66.2	76.2	949	01:30	36.38	976.52	3,906.08	4	1,948.98	1.22E-04	0.27	0.31	0.05
11/12/2010	1015	25.5	779	3	73.0	76.5	984	02:00	36.81	1,012.54	4,050.14	4	2,020.86	1.26E-04	0.28	0.32	0.05
11/12/2010	1045	25.5	721	3	77.1	76.1	870	02:30	33.81	895.23	3,580.92	4	1,786.74	1.12E-04	0.23	0.26	0.04
11/12/2010	1115	25.5	741	3	79.8	75.8	1,141	03:00	34.58	1,174.09	4,696.35	4	2,343.30	1.46E-04	0.30	0.35	0.06
11/12/2010	1145	26.0	546	3	81.3	75.5	981	03:30	25.41	1,009.45	4,037.79	4	2,014.70	1.26E-04	0.19	0.22	0.04
11/12/2010	1215	26.0	643	3	84.3	75.2	710	04:00	29.76	730.59	2,922.36	4	1,458.14	9.10E-05	0.16	0.19	0.03
11/12/2010	1245	26.0	663	3	85.1	75.6	1,106	04:30	30.64	1,138.07	4,552.29	4	2,271.42	1.42E-04	0.26	0.30	0.05
11/12/2010	1315	26.0	663	3	86.9	75.4	1,045	05:00	30.53	1,075.30	4,301.22	4	2,146.14	1.34E-04	0.25	0.28	0.05
11/12/2010	1345	26.0	643	3	89.6	75.3	1,260	05:30	29.47	1,296.54	5,186.16	4	2,587.69	1.62E-04	0.29	0.33	0.05
11/12/2010	1415	26.0	643	3	91.2	74.9	1,298	06:00	29.38	1,335.64	5,342.57	4	2,665.73	1.66E-04	0.29	0.34	0.05
11/12/2010	1445	26.0	701	3	92.3	75.2	1,072	06:30	31.97	1,103.09	4,412.35	4	2,201.59	1.37E-04	0.26	0.31	0.05
11/12/2010	1515	26.0	741	3	94.1	74.6	1,090	07:00	33.68	1,121.61	4,486.44	4	2,238.56	1.40E-04	0.28	0.33	0.05
11/12/2010	1545	26.0	604	3	94.1	74.8	1,160	07:30	27.46	1,193.64	4,774.56	4	2,382.32	1.49E-04	0.25	0.28	0.05
11/12/2010	1615	26.0	643	3	93.9	74.9	852	08:00	29.24	876.71	3,506.83	4	1,749.77	1.09E-04	0.19	0.22	0.04
Average Values		25.4	672	3	80.0	75.8	964		31.35	991.96	3,967.82	4	1,979.79	1.24E-04	0.23	0.27	0.04
B_{ws}	0.028	B_{wsw}	0.017														

Total Pounds of Carbon Recovered as Emissions: 1.86
Total Pounds of Gasoline Recovered as Emissions: 2.15
Total Gallons of Gasoline Recovered as Emissions: 0.34

NOTES:
AFVR event performed on November 12, 2010
Vacuum applied to monitoring well MW-7.
0.37 feet of free-product was detected in MW-7 prior to initiating the AFVR event.
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
in. of Hg - inches of mercury
ppm - parts per million
Q_{std} - flow at DSCFM
DSCFM - Dry Standard Cubic Feet per Minute
PPM_d - "dry" concentration

PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP
K - number of carbons in calibration gas
C_{cm} - mass concentration of VOC emissions as carbon
PMR_c - pollutant mass removal of VOCs as carbon
PMR_g - pollutant mass removal of VOCs as gasoline
B_{wsw} - lb of water per lb of dry air
B_{ws} - water vapor % by volume
Calculations have been derived from published guidance

Prepared By: TJB
Checked By : IAI

TABLE 2

AFVR Gauging Data (RW-1) - November 19, 2010
George Souther's Grocery
Campobello, South Carolina
SCDHEC UST Permit #08650; Cost Agreement #40320
BLE Project Number J10-7051-03

	Monitoring Well Gauging Data			Air Emissions	
	Vacuum (in. of Hg)	Depth to Free-Product / Groundwater (feet BTOC)		Influent (ppm)	Effluent (ppm)
Time	RW-1	MW-1	RW-1		
0815	23.0	15.98	18.34 / 21.40	577	16
0845	22.0	15.99	AFVR EVENT	688	129
0915	22.0	16.00		1,128	141
0945	22.0	16.00		1,243	159
1015	22.0	16.01		1,275	127
1045	22.0	16.01		1,089	188
1115	22.0	16.02		1,155	108
1145	22.0	16.02		1,356	164
1215	21.0	16.02		1,028	177
1245	21.0	16.02		1,139	187
1315	21.0	16.03		1,298	200
1345	21.0	16.03		1,473	110
1415	21.0	16.03		1,396	217
1445	21.0	16.03		1,230	138
1515	21.0	16.03		1,248	107
1545	21.0	16.03		1,206	136
1615	21.0	16.03	24.98	1,305	135
	Initial Free Product (feet)	**0.00**	**3.06**		
	Final Free Product (feet)	**0.00**	**0.00**		

NOTES:
AFVR event performed on November 19, 2010
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
3.06 feet of free-product was detected in RW-1 prior to initiating the AFVR event.
in. of Hg - inches of mercury
BTOC - below top of casing
ppm - parts per million

Prepared By: TJB
Checked By : IAI

TABLE 2A

AFVR Emissions Field Data - November 19, 2010
George Souther's Grocery
Campobello, South Carolina
SCDHEC UST Permit #08650; Cost Agreement #40320
BLE Project Number J10-7051-03

WELL ID #: RW-1

AFVR FIELD MEASUREMENTS									EMISSION CALCULATIONS								
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	$PPM_{measured}$ (ppm)	Elapsed Time (hr:min)	Q_{std} (DSCFM)	PPM_d	PPM_c	K	C_{cm} (mg/dsm3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	PMR_g (gal/hr)
11/19/2010	0815	27.0	429	3	48.5	88.3	577	00:00	20.85	605.09	2,420.35	4	1,207.66	7.54E-05	0.09	0.11	0.02
11/19/2010	0845	26.5	701	3	60.2	86.7	688	00:30	33.31	721.49	2,885.96	4	1,439.98	8.99E-05	0.18	0.21	0.03
11/19/2010	0915	26.5	1,013	3	76.6	86.8	1,128	01:00	46.66	1,182.91	4,731.63	4	2,360.90	1.47E-04	0.41	0.48	0.08
11/19/2010	0945	26.5	818	3	82.5	86.2	1,243	01:30	37.27	1,303.51	5,214.02	4	2,601.60	1.62E-04	0.36	0.42	0.07
11/19/2010	1015	26.5	877	3	86.0	86.6	1,275	02:00	39.70	1,337.06	5,348.25	4	2,668.57	1.67E-04	0.40	0.46	0.07
11/19/2010	1045	26.5	838	3	90.6	86.6	1,089	02:30	37.62	1,142.01	4,568.04	4	2,279.27	1.42E-04	0.32	0.37	0.06
11/19/2010	1115	26.5	975	3	93.5	86.1	1,155	03:00	43.54	1,211.22	4,844.89	4	2,417.41	1.51E-04	0.39	0.46	0.07
11/19/2010	1145	26.0	1,111	3	94.2	85.8	1,356	03:30	49.55	1,422.01	5,688.03	4	2,838.10	1.77E-04	0.53	0.61	0.10
11/19/2010	1215	26.0	994	3	89.2	86.0	1,028	04:00	44.73	1,078.04	4,312.16	4	2,151.60	1.34E-04	0.36	0.42	0.07
11/19/2010	1245	26.0	1,033	3	98.4	85.9	1,139	04:30	45.72	1,194.44	4,777.77	4	2,383.92	1.49E-04	0.41	0.47	0.08
11/19/2010	1315	26.0	975	3	101.4	85.7	1,298	05:00	42.92	1,361.18	5,444.73	4	2,716.71	1.70E-04	0.44	0.51	0.08
11/19/2010	1345	26.0	1,072	3	102.3	85.6	1,473	05:30	47.12	1,544.70	6,178.81	4	3,082.99	1.92E-04	0.54	0.63	0.10
11/19/2010	1415	26.0	975	3	102.7	85.2	1,396	06:00	42.82	1,463.95	5,855.81	4	2,921.82	1.82E-04	0.47	0.54	0.09
11/19/2010	1445	26.0	1,072	3	102.9	85.4	1,230	06:30	47.07	1,289.87	5,159.49	4	2,574.39	1.61E-04	0.45	0.53	0.08
11/19/2010	1515	26.0	1,170	3	103.1	85.4	1,248	07:00	51.35	1,308.75	5,235.00	4	2,612.06	1.63E-04	0.50	0.58	0.09
11/19/2010	1545	26.0	1,092	3	102.9	85.5	1,206	07:30	47.95	1,264.70	5,058.82	4	2,524.16	1.58E-04	0.45	0.52	0.08
11/19/2010	1615	26.0	1,111	3	102.0	85.3	1,305	08:00	48.86	1,368.52	5,474.10	4	2,731.36	1.71E-04	0.50	0.58	0.09
Average Values		26.2	956	3	90.4	86.1	1,167		42.77	1,223.50	4,893.99	4	2,441.91	1.52E-04	0.39	0.45	0.07
B_{ws}	0.046	B_{wsw}	0.028														

Total Pounds of Carbon Recovered as Emissions: 3.13

Total Pounds of Gasoline Recovered as Emissions: 3.62

Total Gallons of Gasoline Recovered as Emissions: 0.58

NOTES:

AFVR event performed on November 19, 2010
Vacuum applied to monitoring well RW-1.
3.06 feet of free-product was detected in RW-1 prior to initiating the AFVR event.
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
in. of Hg - inches of mercury
ppm - parts per million
Q_{std} - flow at DSCFM
DSCFM - Dry Standard Cubic Feet per Minute
PPM_d - "dry" concentration

PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP
K - number of carbons in calibration gas
C_{cm} - mass concentration of VOC emissions as carbon
PMR_c - pollutant mass removal of VOCs as carbon
PMR_g - pollutant mass removal of VOCs as gasoline
B_{wsw} - lb of water per lb of dry air
B_{ws} - water vapor % by volume
Calculations have been derived from published guidance

Prepared By: TJB
Checked By : IAI

TABLE 3

AFVR Gauging Data (MW-5) - November 23, 2010
George Souther's Grocery
Campobello, South Carolina
SCDHEC UST Permit #08650; Cost Agreement #40320
BLE Project Number J10-7051-03

	Monitoring Well Gauging Data			Air Emissions	
	Vacuum (in.of Hg)	Depth to Free-Product / Groundwater (feet BTOC)		Influent (ppm)	Effluent (ppm)
Time	MW-5	MW-4	MW-5		
0900	21.5	15.14	16.98 / 17.22	495	47
0930	21.5	15.15	AFVR EVENT	667	17
1000	21.5	15.16		480	31
1030	21.5	15.17		1,119	137
1100	21.5	15.19		1,018	121
1130	21.5	15.21		1,074	120
1200	21.5	15.23		1,496	172
1230	21.5	15.23		1,637	189
1300	21.5	15.24		1,198	187
1330	21.5	15.25		1,292	218
1400	21.5	15.25		1,289	250
1430	21.5	15.26		1,259	87
1500	21.5	15.27		1,279	161
1530	21.5	15.28		1,058	115
1600	21.5	15.29		1,358	191
1630	21.5	15.30		1,314	132
1700	21.5	15.31	18.48	1,297	124
	Initial Free Product (feet)	**0.00**	**0.24**		
	Final Free Product (feet)	**0.00**	**0.00**		

NOTES:
AFVR event performed on November 23, 2010
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
0.24 feet of free-product was detected in MW-5 prior to initiating the AFVR event.
in. of Hg - inches of mercury
BTOC - below top of casing
ppm - parts per million

Prepared By: TJB
Checked By : IAI

TABLE 3A

AFVR Emissions Field Data - November 23, 2010
George Souther's Grocery
Campobello, South Carolina
SCDHEC UST Permit #08650; Cost Agreement #40320
BLE Project Number J10-7051-03

WELL ID #: MW-5

AFVR FIELD MEASUREMENTS									EMISSION CALCULATIONS								
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	$PPM_{measured}$ (ppm)	Elapsed Time (hr:min)	Q_{std} (DSCFM)	PPM_d	PPM_c	K	C_{cm} (mg/dsm3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	PMR_g (gal/hr)
11/23/2010	0900	25.5	681	3	64.0	90.4	495	00:00	32.01	520.91	2,083.63	4	1,039.65	6.49E-05	0.12	0.14	0.02
11/23/2010	0930	25.5	779	3	65.3	89.9	667	00:30	36.52	701.91	2,807.63	4	1,400.90	8.75E-05	0.19	0.22	0.04
11/23/2010	1000	25.5	1,092	3	89.9	90.2	480	01:00	48.91	505.12	2,020.49	4	1,008.14	6.29E-05	0.18	0.21	0.03
11/23/2010	1030	25.5	1,228	3	91.9	90.6	1,119	01:30	54.80	1,177.56	4,710.26	4	2,350.24	1.47E-04	0.48	0.56	0.09
11/23/2010	1100	25.5	1,092	3	93.3	89.8	1,018	02:00	48.61	1,071.28	4,285.11	4	2,138.11	1.33E-04	0.39	0.45	0.07
11/23/2010	1130	25.5	1,013	3	94.8	89.8	1,074	02:30	44.97	1,130.21	4,520.84	4	2,255.72	1.41E-04	0.38	0.44	0.07
11/23/2010	1200	25.5	1,072	3	95.7	89.6	1,496	03:00	47.51	1,574.29	6,297.18	4	3,142.05	1.96E-04	0.56	0.65	0.10
11/23/2010	1230	25.5	1,052	3	96.6	89.3	1,637	03:30	46.55	1,722.67	6,890.70	4	3,438.19	2.15E-04	0.60	0.69	0.11
11/23/2010	1300	25.5	1,033	3	98.2	89.4	1,198	04:00	45.58	1,260.70	5,042.80	4	2,516.16	1.57E-04	0.43	0.50	0.08
11/23/2010	1330	25.5	994	3	98.9	89.0	1,292	04:30	43.80	1,359.62	5,438.47	4	2,713.59	1.69E-04	0.45	0.52	0.08
11/23/2010	1400	25.5	1,111	3	99.6	88.7	1,289	05:00	48.90	1,356.46	5,425.85	4	2,707.29	1.69E-04	0.50	0.57	0.09
11/23/2010	1430	25.5	955	3	98.0	88.8	1,259	05:30	42.15	1,324.89	5,299.57	4	2,644.28	1.65E-04	0.42	0.48	0.08
11/23/2010	1500	25.5	1,170	3	97.3	89.1	1,279	06:00	51.71	1,345.94	5,383.75	4	2,686.28	1.68E-04	0.52	0.60	0.10
11/23/2010	1530	25.5	1,130	3	95.7	88.6	1,058	06:30	50.08	1,113.37	4,453.49	4	2,222.12	1.39E-04	0.42	0.48	0.08
11/23/2010	1600	25.5	994	3	93.7	88.2	1,358	07:00	44.21	1,429.07	5,716.29	4	2,852.21	1.78E-04	0.47	0.55	0.09
11/23/2010	1630	25.5	1,111	3	90.6	88.3	1,314	07:30	49.70	1,382.77	5,531.08	4	2,759.79	1.72E-04	0.51	0.59	0.10
11/23/2010	1700	25.5	1,033	3	89.4	88.5	1,297	08:00	46.31	1,364.88	5,459.52	4	2,724.09	1.70E-04	0.47	0.55	0.09
Average Values		25.5	1,032	3	91.3	89.3	1,137		46.02	1,196.57	4,786.27	4	2,388.17	1.49E-04	0.41	0.48	0.08

B_{ws}	0.050	B_{wsw}	0.03

Total Pounds of Carbon Recovered as Emissions: 3.29

Total Pounds of Gasoline Recovered as Emissions: 3.81

Total Gallons of Gasoline Recovered as Emissions: 0.61

NOTES:

AFVR event performed on November 23, 2010
Vacuum applied to monitoring well MW-5.
0.24 feet of free-product was detected in MW-5 prior to initiating the AFVR event.
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
in. of Hg - inches of mercury
ppm - parts per million
Q_{std} - flow at DSCFM
DSCFM - Dry Standard Cubic Feet per Minute
PPM_d - "dry" concentration

PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP
K - number of carbons in calibration gas
C_{cm} - mass concentration of VOC emissions as carbon
PMR_c - pollutant mass removal of VOCs as carbon
PMR_g - pollutant mass removal of VOCs as gasoline
B_{wsw} - lb of water per lb of dry air
B_{ws} - water vapor % by volume
Calculations have been derived from published guidance

Prepared By: TJB
Checked By : IAI

TABLE 4

AFVR Gauging Data (RW-2) - December 13, 2010
George Souther's Grocery
Campobello, South Carolina
SCDHEC UST Permit #08650; Cost Agreement #40320
BLE Project Number J10-7051-03

	Monitoring Well Gauging Data			Air Emissions	
	Vacuum (in. of Hg)	Depth to Free-Product / Groundwater (feet BTOC)		Influent (ppm)	Effluent (ppm)
Time	RW-2	MW-9	RW-2		
0945	26.5	23.41	22.18 / 22.72	266	10
1015	25.0	23.42	AFVR EVENT	331	10
1045	24.0	23.42		364	10
1115	23.0	23.42		619	13
1145	23.0	23.43		591	16
1215	23.0	23.43		785	12
1245	23.5	23.42		995	20
1315	23.5	23.43		1,035	13
1345	23.5	23.43		1,135	15
1415	23.5	23.43		926	17
1445	23.5	23.43		1,085	14
1515	23.5	23.43		927	20
1545	23.5	23.43		1,172	25
1615	23.5	23.43		1,087	20
1645	23.5	23.43		1,064	22
1715	23.5	23.43		1,010	20
1745	23.5	23.43	22.47	1,132	26
	Initial Free Product (feet)	**0.00**	**0.54**		
	Final Free Product (feet)	**0.00**	**0.00**		

NOTES:
AFVR event performed on December 13, 2010
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
0.54 feet of free-product was detected in RW-2 prior to initiating the AFVR event.
in. of Hg - inches of mercury
BTOC - below top of casing
ppm - parts per million
ND - Not Detected

Prepared By: TJB
Checked By : IAI

TABLE 4A

AFVR Emissions Field Data December 13, 2010
George Souther's Grocery
Campobello, South Carolina
SCDHEC UST Permit #08650; Cost Agreement #40320
BLE Project Number J10-7051-03

WELL ID #: RW-2

AFVR FIELD MEASUREMENTS									EMISSION CALCULATIONS								
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	$PPM_{measured}$ (ppm)	Elapsed Time (hr:min)	Q_{std} (DSCFM)	PPM_d	PPM_c	K	C_{cm} (mg/dsm3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	PMR_g (gal/hr)
12/13/2011	0945	26.5	135	3	58.6	70.1	266	00:00	6.60	271.86	1,087.44	4	542.59	3.39E-05	0.01	0.02	0.00
12/13/2011	1015	25.5	467	3	80.6	69.8	331	00:30	21.91	338.29	1,353.16	4	675.18	4.22E-05	0.06	0.06	0.01
12/13/2011	1045	25.0	663	3	41.1	69.3	364	01:00	33.55	372.02	1,488.07	4	742.49	4.64E-05	0.09	0.11	0.02
12/13/2011	1115	25.0	604	3	59.7	69.4	619	01:30	29.47	632.63	2,530.54	4	1,262.64	7.88E-05	0.14	0.16	0.03
12/13/2011	1145	25.0	584	3	68.3	69.7	591	02:00	28.03	604.02	2,416.07	4	1,205.53	7.53E-05	0.13	0.15	0.02
12/13/2011	1215	25.0	604	3	71.0	69.3	785	02:30	28.85	802.29	3,209.16	4	1,601.25	1.00E-04	0.17	0.20	0.03
12/13/2011	1245	25.0	604	3	80.6	68.5	995	03:00	28.33	1,016.92	4,067.66	4	2,029.61	1.27E-04	0.22	0.25	0.04
12/13/2011	1315	25.0	604	3	80.4	68.2	1,035	03:30	28.34	1,057.80	4,231.19	4	2,111.20	1.32E-04	0.22	0.26	0.04
12/13/2011	1345	25.0	584	3	77.5	68.4	1,135	04:00	27.55	1,160.00	4,640.00	4	2,315.18	1.45E-04	0.24	0.28	0.04
12/13/2011	1415	25.0	546	3	83.4	68.6	926	04:30	25.48	946.40	3,785.58	4	1,888.86	1.18E-04	0.18	0.21	0.03
12/13/2011	1445	25.0	623	3	84.7	68.1	1,085	05:00	29.00	1,108.90	4,435.59	4	2,213.19	1.38E-04	0.24	0.28	0.04
12/13/2011	1515	25.0	584	3	82.4	67.9	927	05:30	27.30	947.42	3,789.67	4	1,890.90	1.18E-04	0.19	0.22	0.04
12/13/2011	1545	25.0	584	3	79.1	67.8	1,172	06:00	27.47	1,197.81	4,791.26	4	2,390.65	1.49E-04	0.25	0.28	0.05
12/13/2011	1615	25.0	604	3	77.3	67.9	1,087	06:30	28.51	1,110.94	4,443.77	4	2,217.27	1.38E-04	0.24	0.27	0.04
12/13/2011	1645	25.0	604	3	75.5	67.5	1,064	07:00	28.60	1,087.44	4,349.74	4	2,170.35	1.35E-04	0.23	0.27	0.04
12/13/2011	1715	25.0	564	3	75.3	67.6	1,010	07:30	26.72	1,032.25	4,128.98	4	2,060.20	1.29E-04	0.21	0.24	0.04
12/13/2011	1745	25.0	604	3	75.7	67.6	1,132	08:00	28.59	1,156.93	4,627.73	4	2,309.06	1.44E-04	0.25	0.29	0.05
Average Values		25.1	562	3	73.6	68.6	854		26.73	873.17	3,492.68	4	1,742.71	1.09E-04	0.17	0.20	0.03

B_{ws}	0.022	B_{wsw}	0.013

Total Pounds of Carbon Recovered as Emissions: 1.40
Total Pounds of Gasoline Recovered as Emissions: 1.62
Total Gallons of Gasoline Recovered as Emissions: 0.26

NOTES:
AFVR event performed on December 13, 2010
Vacuum applied to monitoring well RW-2.
0.54 feet of free-product was detected in RW-2 prior to initiating the AFVR event.
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
inches of Hg - inches of mercury
ppm - parts per million
Q_{std} - flow at DSCFM
DSCFM - Dry Standard Cubic Feet per Minute
PPM_d - "dry" concentration

PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP
K - number of carbons in calibration gas
C_{cm} - mass concentration of VOC emissions as carbon
PMR_c - pollutant mass removal of VOCs as carbon
PMR_g - pollutant mass removal of VOCs as gasoline
B_{wsw} - lb of water per lb of dry air
B_{ws} - water vapor % by volume
Calculations have been derived from published guidance

Prepared By: TJB
Checked By : IAI

TABLE 5

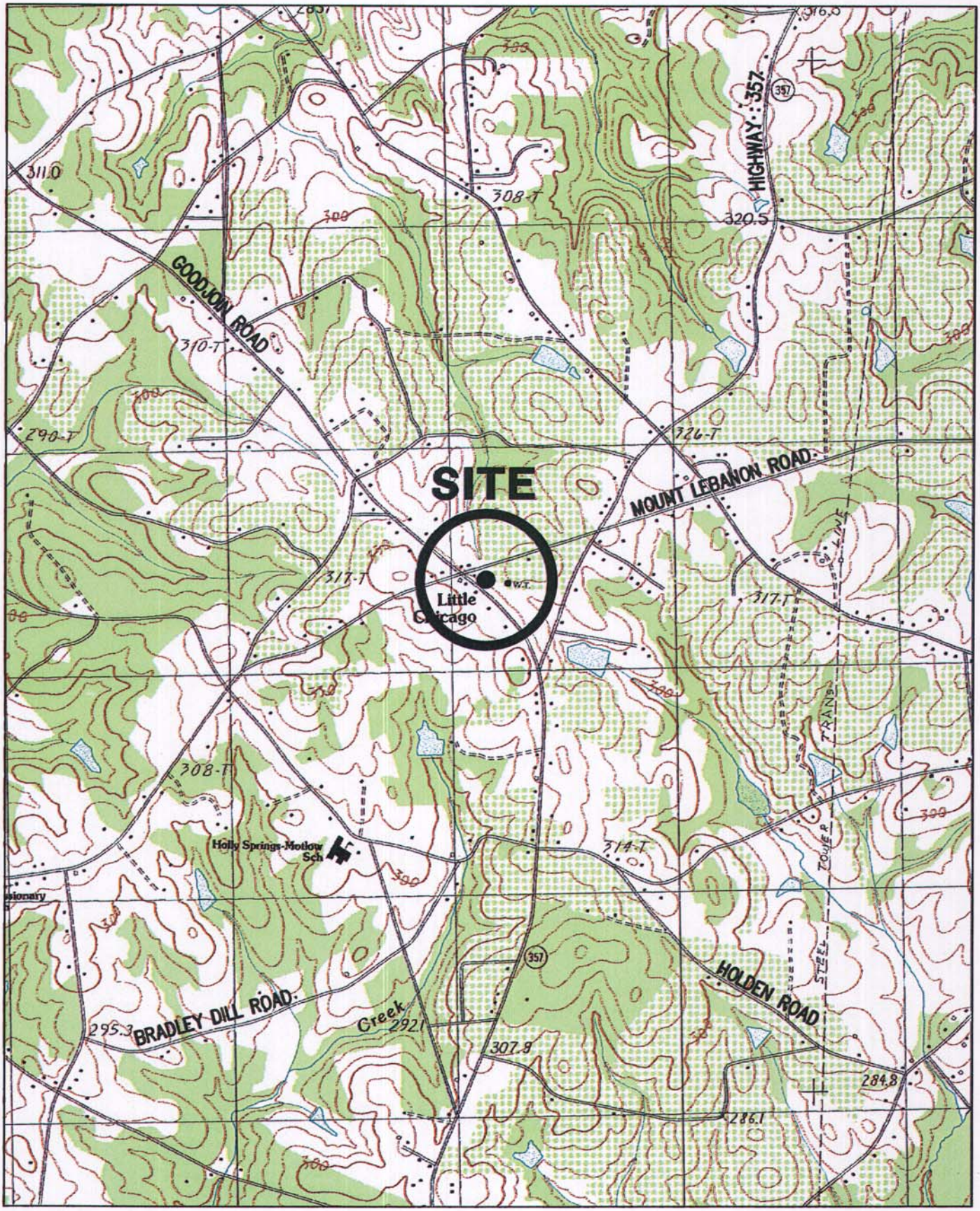
Monitoring Well Data
George Souther's Grocery
Campobello, South Carolina
SCDHEC UST Permit #08650; Cost Agreement #40320
BLE Project Number J10-7051-03

Monitoring Well	TOC Elev.	Ground Elev.	Listed Well Depth (Tier II Report)	Listed Screened Interval Depth (Tier II Report)	Measured Well Depth (3-3-11)	Well Depth Discrepancy	GW Depth BTOC (3-3-11)
MW-1	96.48	96.71	17.0	7.0 - 17.0	16.45	-0.55	15.75
MW-2	99.93	100.32	17.0	7.0 - 17.0	17.40	0.40	Dry
MW-3	97.03	97.20	19.0	9.0 - 19.0	18.60	-0.40	Dry
MW-4	89.54	89.69	19.0	9.0 - 19.0	18.40	-0.60	14.52
MW-5	93.55	93.80	19.5	9.5 - 19.5	19.34	-0.16	16.34
MW-6R	92.03	92.28	20.0	5.0 - 20.0	18.30	-1.70	14.35
MW-7	95.39	95.71	19.0	9.0 - 19.0	18.96	-0.04	17.85
MW-8	99.71	100.19	18.0	8.0 - 18.0	24.28	6.28	22.80
MW-9	99.95	100.36	24.0	14.0 - 24.0	23.86	-0.14	23.45
MW-10R	89.81	90.15	17.0	2.0 - 17.0	19.95	2.95	8.16
MW-11	96.78	96.91	23.0	13.0 - 23.0	29.26	6.26	18.55
MW-12	94.45	94.91	25.0	15.0 - 25.0	26.45	1.45	19.85
MW-13R	93.21	93.62	17.0	2.0 - 17.0	21.57	4.57	15.21
MW-14R	85.34	85.60	25.0	10.0 - 25.0	15.41	-9.59	7.45
MW-15R	90.66	91.26	17.0	2.0 - 17.0	19.83	2.83	11.63
MW-16	99.04	99.41	35.0	15.0 - 35.0	31.10	-3.90	21.10
MW-17	93.43	93.91	35.0	15.0 - 35.0	34.60	-0.40	18.01
MW-18R	107.18	107.50	30.0	15.0 - 30.0	29.20	-0.80	Dry
MW-19	104.66	105.07	40.0	20.0 - 40.0	39.55	-0.45	28.46
MW-20	106.96	107.50	36.0	16.0 - 36.0	36.33	0.33	30.45
MW-21	88.90	89.43	20.0	5.0 - 20.0	22.85	2.85	10.21
MW-22	92.65	93.27	20.0	5.0 - 20.0	22.76	2.76	14.16
MW-23	99.52	99.71	23.0	8.0 - 23.0	21.96	-1.04	21.31
MW-24	89.25	89.54	20.0	5.0 - 20.0	20.40	0.40	11.76
MW-25	90.56	90.78	20.0	5.0 - 20.0	19.75	-0.25	12.38
MW-26	89.33	89.66	17.0	2.0 - 17.0	17.80	0.80	12.05
MW-27	91.99	92.31	17.0	2.0 - 17.0	17.29	0.29	3.30
MW-28	93.34	93.68	25.0	10.0 - 25.0	23.02	-1.98	17.21
MW-29	99.80	100.18	30.0	15.0 - 30.0	27.31	-2.69	24.59
MW-30	103.63	103.99	30.0	15.0 - 30.0	29.30	-0.70	28.85
MW-31	101.12	101.33	30.0	15.0 - 30.0	29.47	-0.53	27.72
MW-32	101.71	102.13	30.0	15.0 - 30.0	27.49	-2.51	Dry
MW-33	109.18	109.38	40.0	25.0 - 40.0	27.45	-12.55	25.29
MW-34	106.61	106.90	40.0	25.0 - 40.0	26.72	-13.28	11.86
MW-35	104.51	104.81	30.0	15.0 - 30.0	27.51	-2.49	26.30
MW-36	98.48	98.79	25.0	10.0 - 25.0	23.17	-1.83	20.66
MW-37	97.70	97.94	17.0	2.0 - 17.0	17.50	0.50	17.04
MW-38	99.51	99.73	17.0	2.0 - 17.0	20.31	3.31	19.81
MW-39	94.76	95.29	17.0	2.0 - 17.0	19.95	2.95	16.80
MW-40	110.56	110.81	40.0	25.0 - 40.0	40.10	0.10	33.76
MW-41	102.10	102.41	40.0	25.0 - 40.0	37.75	-2.25	31.00
MW-42	101.90	102.23	40.0	25.0 - 40.0	38.11	-1.89	30.55
MW-43	101.88	102.18	40.0	25.0 - 40.0	39.48	-0.52	30.70
MW-44	NA	NA	35.0	20.0 - 35.0	NA	NA	NL
MW-45	NA	NA	30.0	15.0 - 30.0	NA	NA	NL
PMW-1	96.47	96.69	47.0	45.0 - 47.0	44.70	-2.30	19.15
PMW-2	97.44	97.87	75.0	70.0 - 75.0	8.90	-66.10	Dry
PMW-3	97.44	97.91	NA	NA	10.55	NA	Dry
DW-1	97.57	97.79	90.0	85.0 - 90.0	73.50	-16.50	20.55
DW-2	91.39	91.61	75.0	70.0 - 75.0	69.70	-5.30	12.71
DW-3	96.37	96.58	65.0	60.0 - 65.0	56.69	-8.31	18.55
DW-4	99.77	100.14	67.0	62.0 - 67.0	58.42	-8.58	24.4
DW-5	99.45	99.71	75.0	70.0 - 75.0	70.02	-4.98	23.61
DW-6	102.04	102.32	75.0	70.0 - 75.0	63.40	-11.60	28.85
RW-1	96.29	96.49	30.0	25.0 - 30.0	29.25	-0.75	19.06
RW-2	98.9	NA	NA	15.3 - 29.3	29.50	NA	21.84

NOTES:
Groundwater levels were measured on March 3, 2011.
Measurements are in feet; elevations are relative to top of casing elevations.
Listed well and screen interval depths are from the *Tier II Assessment Addendum*, dated May 1, 2006 by Consultech Environmental, Inc.
Updated site survey by Souther Land Surveying, Inc., January 17, 2011.
BTOC - below top of casing
NA - Not Available
NL - Not Located

Prepared By: TJB
Checked By: IAI

FIGURES

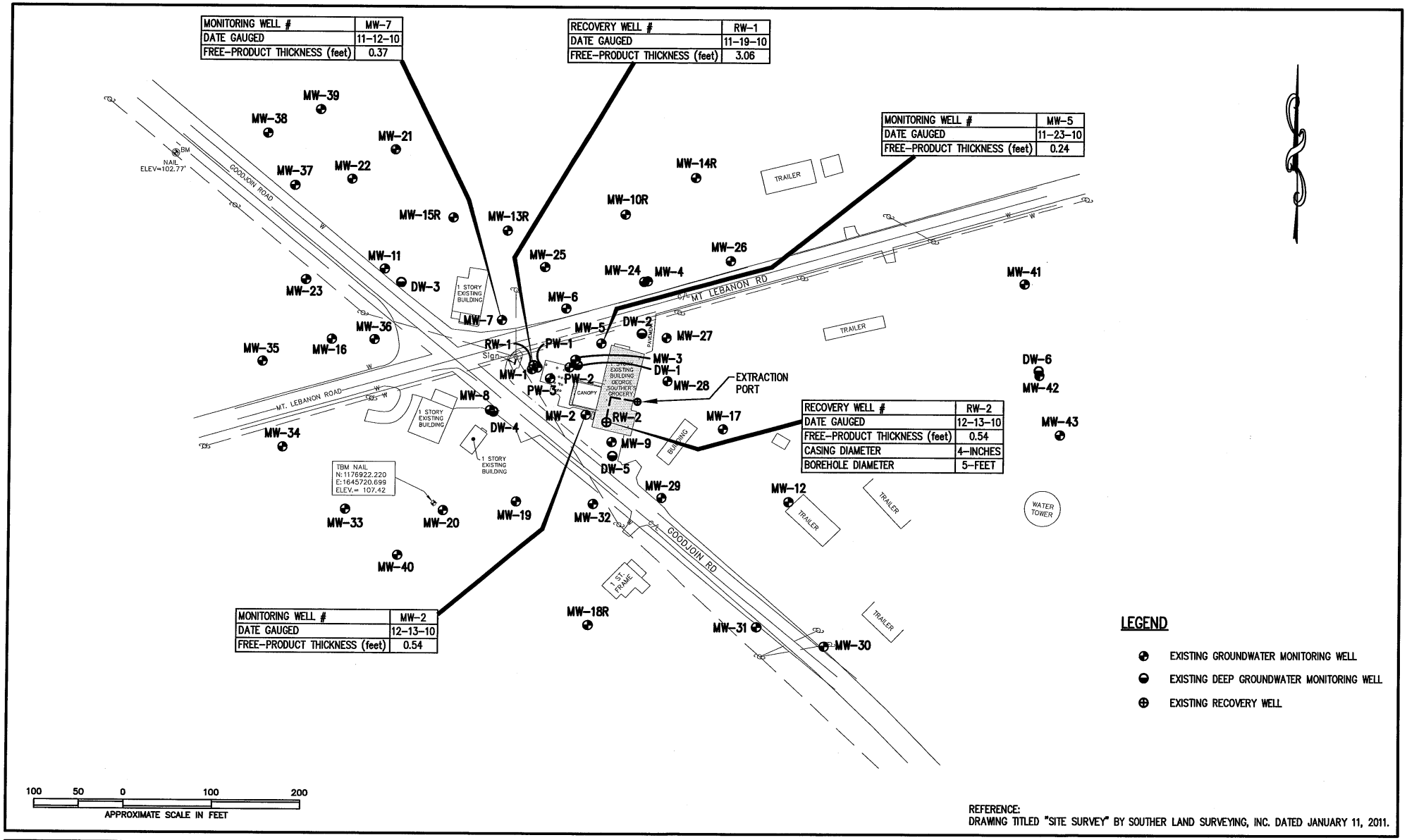


1 .5 0 KILOMETERS 1

1000 0 METERS 1000

REFERENCE:
USGS TOPOGRAPHIC MAP, 7.5 MINUTE SERIES, CAMPOBELLO, S.C. QUADRANGLE, 1983.

DRAWN: ACE	DATE: 06-11-11	BLE INC. BUNNELL-LAMMONS ENGINEERING, INC. 6004 PONDERS COURT GREENVILLE, SOUTH CAROLINA 29615 PHONE: (864)288-1265 FAX: (864)288-4430	SITE LOCATION MAP GEORGE SOUTHERS GROCERY UST PERMIT #08650 CAMPOBELLO, SOUTH CAROLINA	FIGURE 1
CHECKED: TJB	CAD: GEORGESOUGR-03SLM			
APPROVED:	JOB NO: J11-7051-03			



REFERENCE:
DRAWING TITLED "SITE SURVEY" BY SOUTHER LAND SURVEYING, INC. DATED JANUARY 11, 2011.

DRAWN BY:	ACE	DATE:	06-11-11
CHECKED BY:	TJB	FILE:	GEORGESOUGR-03FPAM
APPROVED BY:		JOB NO:	J11-7051-03

REVISIONS

No.	DESCRIPTION	BY

BUNNELL-LAMMONS ENGINEERING, INC.
6004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615
PHONE: (864)288-1265 FAX: (864)288-4430

FREE-PRODUCT ASSESSMENT MAP
GEORGE SOUTHERS GROCERY
UST PERMIT #08650
CAMPOBELLO, SOUTH CAROLINA

FIGURE 2

APPENDICES

APPENDIX A

WASTE TRANSPORTATION AND DISPOSAL RECORDS

Conf # 1833

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number 7051-03

5. Generator's Name and Mailing Address
BURNELL LAMMONS ENG, INC
6004 PINDERS COURT
GREENVILLE, SC 29615
As Agent For

Generator's Site Address (if different than mailing address)
Southern's Grocery
280 Goodson Rd
Campobello, SC

Generator's Phone:

6. Transporter 1 Company Name BLE — U.S. EPA ID Number

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

8. Designated Facility Name and Site Address ALS Recovery Services Piedmont, LLC
305 South Main St.
Mauldin, SC 29550
U.S. EPA ID Number SCR000762468
Facility's Phone: 864-962-9953

	9. Waste Shipping Name and Description	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.
1	NON HAZ NON REG WELL WATER #11312 — Cross Roads Convenience, 867 Memorial Park Rd, Lancaster, SC UST #10137			8	gal
2	NON HAZ NON REG WELL WATER #11312 — Southern's Grocery, 280 Goodson Rd, Campobello, SC UST #08650			143	gal
3	NON HAZ NON REG WELL WATER #11312 — Spark 109, 1900 Wade Hase Rd, Greenville, SC UST #10992			570	gal
4					

13. Special Handling Instructions and Additional Information

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: Regina Koenig — Signature: Regina Koenig — Month 11 Day 16 Year 10

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: Regina Koenig — Signature: Regina Koenig — Month 11 Day 16 Year 10

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: Brian Tripp — Signature: [signature] — Month 11 Day 16 Year 10

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

Cay 1936

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number 7051-03

GENERATOR

5. Generator's Name and Mailing Address
BURNELL LAMMONS ENG, INC
5004 PINDERS COURT
GREENVILLE, SC 29615
Agent
Fax
Generator's Phone:

Generator's Site Address (if different than mailing address)
Southern Green
280 Goodson Rd
Campobello, SC

6. Transporter 1 Company Name
BLE
U.S. EPA ID Number

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

8. Designated Facility Name and Site Address
VLS Recovery Services Piedmont, LLC
305 South Main St.
Mauldin, SC 29660
864-962-9353
Facility's Phone:
U.S. EPA ID Number
SCR000752458

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	NON HAZ NON REG WELL WATER #11312 SPINX 251 FAR ENMARK 7853 White Horse Rd Greenville, SC UST # 10683			39	gal
2.	Non Haz Non Reg DEWATER #11312 Southern Green 280 Goodson Rd Campobello, SC UST # 08650			569	gal
3.					
4.					

13. Special Handling Instructions and Additional Information

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: Regina Koenig
Signature: Regina Koenig
Month 11 Day 22 Year 10

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: Regina Koenig
Signature: Regina Koenig
Month 11 Day 22 Year 10
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: Brian Tripp
Signature: Brian Tripp
Month 11 Day 22 Year 10

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
2. Page 1 of
3. Emergency Response Phone
4. Waste Tracking Number: 7057-03

5. Generator's Name and Mailing Address
BUNNELL LAMMONS ENG. INC
6004 PINDERS COURT
GREENVILLE, SC 29615

Generator's Site Address (if different than mailing address)
SPINX 109
7900 White Horse Rd
Greenville, SC

Generator's Phone:

6. Transporter 1 Company Name: BLE
U.S. EPA ID Number:

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

8. Designated Facility Name and Site Address
VLS Recovery Services Piedmont, LLC
305 South Main St.
Mauldin, SC 29660
U.S. EPA ID Number: SCR000762468

Facility's Phone: 864-962-9953

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. NON HAZ NON REG WELL WATER #11312 Southern's Grocery UST # 08650			171	gal
2. NON HAZ Non Reg WELLWATER #11312 SPINX 109 UST # 10992			863	gal
3.				
4.				

13. Special Handling Instructions and Additional Information

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: REGINA KOENIG
Signature: [signature]
Month 11 Day 04 Year 10

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: REGINA KOENIG
Signature: [signature]
Month 11 Day 04 Year 10

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: Brian Tripp
Signature: [signature]
Month 11 Day 29 Year 10

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

169-BLC-O 5 11977 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
2. Page 1 of
3. Emergency Response Phone
4. Waste Tracking Number: 5975-04

5. Generator's Name and Mailing Address
BUNNELL LAMMONS ENG. INC
6004 PINDERS COURT
GREENVILLE, SC 29615

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

Generator's Phone:

6. Transporter 1 Company Name: BLE
U.S. EPA ID Number

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

8. Designated Facility Name and Site Address: ALS Recovery Services Piedmont, LLC
305 South Main St.
Mauldin, SC 29650
U.S. EPA ID Number: SCR000742485

Facility's Phone: 864-962-9353

9. Waste Shipping Name and Description	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.
1. NON HAZ NON REG WELL WATER #11312 KELLETT SHELL UST #04595			408	gal
2. NON HAZ NON REG #11312 SOUTHERS GROCERY UST #08650			190	gal
3.				
4.				

13. Special Handling Instructions and Additional Information

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: Reese Kelley
Signature
Month 12 Day 15 Year 10

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

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Reese Kelley
Signature
Month 12 Day 15 Year 10

Transporter 2 Printed/Typed Name
Signature
Month Day Year

17. Discrepancy

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

17b. Alternate Facility (or Generator)
Manifest Reference Number:
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: Angela Talley
Signature: Angela Talley
Month 12 Day 15 Year 10

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

169-BLC-O 5 11977 (Rev. 9/09)

GENERATOR'S/SHIPPER'S INITIAL COPY

D H E C

PROMOTE PROTECT PROSPER

Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

UST DOCKETING

MAR 19 2012

MR GEORGE E SOUTHER
280 GOODJOIN ROAD
CAMPOBELLO SC 29322

Re: **QAPP Contractor Addendum Directive**
George Souther's Grocery (former), 280 Goodjoin Road, Campobello, SC
UST Permit #08650
Release reported December 31, 1991
Report of Aggressive Fluid Vapor Recovery Events and Comprehensive Survey received June 21, 2011
Spartanburg County

Dear Mr. Souther:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed the referenced report. The report indicates the presence of chemicals of concern in the groundwater.

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 monitoring well installation as outlined in the UST Quality Assurance Program Plan (QAPP) is necessary. Specifically, existing dry monitoring wells MW-2, MW-3, and MW-32 should be reinstalled. This scope of work should be conducted in accordance with the UST QAPP and in compliance with all applicable regulations. A copy of the SCDHEC QAPP for the UST Division is available at:
http://www.dhec.sc.gov/environment/lwm/html/ust.htm

Please have your contractor complete and submit the QAPP Contractor Addendum and Cost Agreement to the UST Division within thirty (30) 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 technical and financial pre-approval from the SCDHEC must be issued before work begins.**

On all correspondence regarding this site, please reference **UST Permit #08650**. If you have questions or need additional information, feel free to contact me by telephone at (803) 896-4078, by fax at (803) 896-6245, or by e-mail to RIVERSMS@dhec.sc.gov.

Sincerely,

Michael Rivers

Michael (Mike) Rivers, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Mr. Trevor J. Benton, P.G., Bunnell-Lammons Engineering, Inc., 6004 Ponders Court, Greenville, SC 29615
Technical File

MR/QAPPA03.08.12

B L E INC.
BUNNELL-LAMMONS ENGINEERING, INC.
GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

July 1, 2012

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
2600 Bull Street
Columbia, South Carolina 29201-1708

Attention: Mr. Michael Rivers
Hydrogeologist

Subject: **QAPP Addendum – Monitoring Well Installation**
Revision Number: 00
George Souther's Grocery
280 Goodjoin Road
Campobello, Spartanburg County, South Carolina
SCDHEC UST Permit #08650
BLE Project No. J12-7051-04

Dear Mr. Rivers:

On behalf of Mr. George Souther, Bunnell-Lammons Engineering, Inc. (BLE) submits herein the Quality Assurance Program Plan (QAPP) addendum for the subject site. This submittal is in response to the South Carolina Department of Health and Environmental Control's (SCDHEC) QAPP addendum request dated March 19, 2012 for the installation of three replacement groundwater monitoring wells at the subject site. Upon approval from the SCDHEC, additional copies of the QAPP addendum will be distributed to the parties listed in section A3.

Please do not hesitate to contact us if you have any questions concerning this submittal.

Sincerely,

BUNNELL-LAMMONS ENGINEERING, INC.

Trevor J. Benton, P.G.
Project Hydrogeologist
Registered, South Carolina #2395

Thomas L. Lammons, P.G., CHMM
Principal Hydrogeologist
Registered, South Carolina #893

cc: Mr. George Souther, 280 Goodjoin Road, Campobello, SC 29322

6004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615

PHONE (864) 288-1265
FAX (864) 288-4430

Section A – Project Management

A1 Title and Approval Page

Quality Assurance Project Plan
Addendum to the SCDHEC UST Programmatic QAPP
For
George Souther's Grocery – UST Permit #08650

280 Goodjoin Road, Campobello, Spartanburg County, South Carolina

Prepared by: Trevor J. Benton, P.G. – Bunnell-Lammons Engineering, Inc.

Date: July 1, 2012

Bunnell-Lammons Engineering, Inc. – SCDHEC Certified Contractor No. UCC-010

Approvals

Michael Rivers _____ Date _____
SCDHEC Project Manager Signature

Trever Z. Slack, P.G. _____ Date 7/1/12
Contractor QA Manager Signature

Thomas L. Lammons, P.G. _____ Date 7/1/12
Site Rehabilitation Contractor Signature

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STANDARD OPERATING PROCEDURES AND FORMS
Attachment A – Monitoring Well Construction Procedures
Attachment B – MiniRae 3000 VOC Detector Calibration and Operation Procedures

ASSESSMENT COMPONENT COST AGREEMENT

A3 Distribution List

Name	Title	Organization/Address	Telephone Number	Fax Number	Email Address
Michael Rivers	SCDHEC Technical Project Manager	SCDHEC UST Management Division 2600 Bull Street Columbia, SC 29201	803-896-4078	803-896-6245	riversms@ dhec.sc.gov
Thomas Lammons, P.G., CHMM	Site Rehabilitation Contractor	Bunnell-Lammons Engineering, Inc. 6004 Ponders Court Greenville, SC 29615	864-288-1265	864-288-4430	tom@blecorp.com
Trevor Benton, P.G.	Field Manager	Bunnell-Lammons Engineering, Inc. 6004 Ponders Court Greenville, SC 29615	864-288-1265	864-288-4430	trevor@blecorp.com
Marty King	Well Services/Driller	Landprobe Drilling 6004 Ponders Court Greenville, SC 29615	864-527-9324	864-288-4430	marty@landprobe.com
Trever Slack, P.G.	Contractor QA Manager/ Project Verifier	Bunnell-Lammons Engineering, Inc. 6004 Ponders Court Greenville, SC 29615	864-288-1265	864-288-4430	tslack@blecorp.com

Table 1A: Addendum Distribution List

A4 Project Organization

Role from the UST Master QAPP	Name of person in this Role for this Project	Organization/ Address	Telephone Number	Fax Number	Email Address
Project Manager	Michael Rivers	SCDHEC UST Management Division 2600 Bull Street Columbia, SC 29201	803-896-4078	803-896-6245	riversms@ dhec.sc.gov
Site Rehabilitation Contractor	Thomas Lammons, P.G., CHMM	Bunnell-Lammons Engineering, Inc. 6004 Ponders Court Greenville, SC 29615	864-288-1265	864-288-4430	tom@blecorp.com
Field Manager	Trevor Benton, P.G.	Bunnell-Lammons Engineering, Inc. 6004 Ponders Court Greenville, SC 29615	864-288-1265	864-288-4430	trevor@blecorp.com

Role from the UST Master QAPP	Name of person in this Role for this Project	Organization/ Address	Telephone Number	Fax Number	Email Address
Monitoring Well Driller	Marty King	Landprobe Drilling 6004 Ponders Court Greenville, SC 29615	864-527-9324	864-288-4430	marty@landprobe.com
Contractor QA Manager/ Project Verifier	Trevor Slack, P.G.	Bunnell-Lammons Engineering, Inc. 6004 Ponders Court Greenville, SC 29615	864-288-1265	864-288-4430	tslack@blecorp.com

Table 2A: Addendum Role Identification and Contact Information

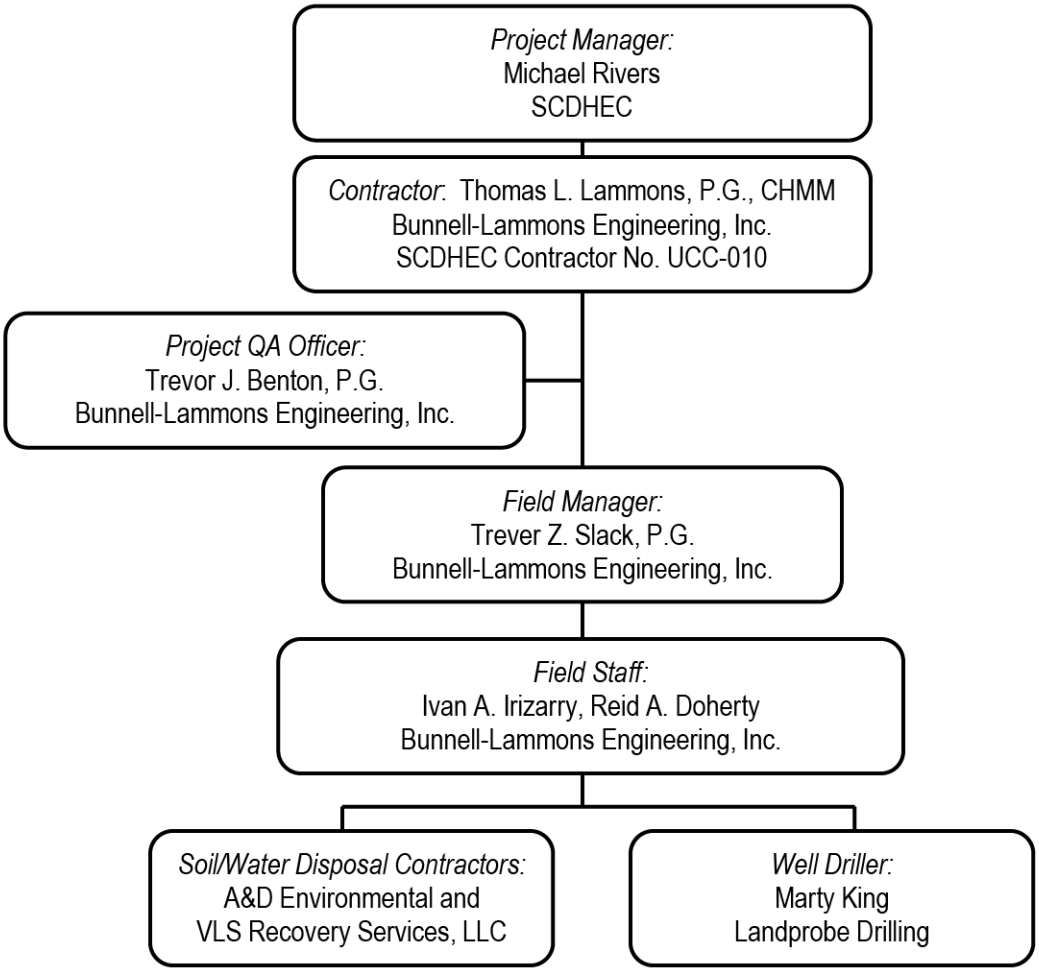


Figure 1A: Organizational Chart

Discuss the responsibilities of key individuals associated with the project.

SCDHEC Project Manager – Responsible for direct oversight of contractors conducting assessment and site rehabilitation of releases at UST sites. Perform day-to-day review of plans and reports related to site rehabilitation activities on their assigned sites. These reviews include verification and analysis of data submitted to the UST Management Division by site rehabilitation contractors and analytical laboratories and recommendations for future work. Also responsible for validating the Project Data.

Contractor – Responsible for managing and coordinating field and office activities necessary for assessment or cleanup. Perform data analysis and interpretation of field data.

Project QA Officer – Responsible for the Quality Assurance aspect of the Project. The QA officer is independent of the staff generating the project data; however, works closely with the Field Manager to ensure tasks are completed in compliance with the QAPP procedures. Additionally, the QA officer is responsible for maintaining the QA project plan.

Field Manager – Oversees and reviews all field activities. Responsible for all duties (i.e site access, boring access, utility clearance, etc.) required to initiate field activities. Field Staff and the analytical laboratory report directly to the Field Manager with any problems or potential issues. The Field Manager also reviews and compiles all field data provided by the Field Staff. Project information is discussed with the Project QA Officer to ensure compliance.

Field Staff – Conducts field activities such as drilling oversight and sample collection. Field Staff report directly to and provide daily field notes to the Field Manager. Additionally, the field staff are responsible for coordination and management of on-site subcontractors during field work completion.

Soil Boring and Monitoring Well Driller – Installs soil borings and monitoring wells at the direction of the Field Manager and Field Staff. Driller must be a certified South Carolina Well Driller.

A5 Problem Definition/Background

Discuss the background (as much as is known) of the site and appropriate historical information, and why this site is being assessed.

The subject property is located at the intersection of Goodjoin Road and Mt. Lebanon Road in Campobello, South Carolina (Figure 1). The site currently operates as a convenience store and petroleum retail store. Structures on the property consist of a convenience store/office building, a canopy, fuel dispenser islands, and four active underground storage tanks registered under UST Permit #14391. Adjacent parcels primarily consist of residential properties and woodlands.

In December 1991, one 550-gallon kerosene UST, one 3,000-gallon diesel UST, one 4,000-gallon gasoline UST, and three 3,000-gallon gasoline USTs were abandoned at the site. The tanks were replaced by one 2,000-gallon kerosene UST, one 2,000-gallon diesel UST, one 6,000-gallon gasoline UST, and one 10,000-gallon gasoline UST (under new UST permit #14391) and are currently in operation today. In response to a release of petroleum contaminants detected during the UST closure, 53 groundwater monitoring wells have been installed to assess groundwater contamination at the site.

On May 5, 2010, BLE personnel visited the site to investigate a water supply well located in the crawlspace of the convenience store. A five-foot diameter, unsealed, hand dug water supply well was observed in the crawlspace. The well was 29.5 feet deep and contained 0.8 feet of petroleum free-product at the time of our measurement

(approximately 117.5 gallons). Conversations with store employees indicated that strong petroleum odors were frequently detected in the store. On May 6, 2010, BLE personnel remobilized to the site with an explosimeter to evaluate the petroleum vapor concentrations in the crawl space of the store. Explosive conditions (100% of the lower explosive limit (LEL)) were noted in the immediate vicinity of the water supply well; therefore, as an emergency abatement procedure, BLE personnel immediately installed and secured a vapor barrier over the well.

In an effort to utilize this well as a future free-product recovery point, BLE constructed (upon approval from SCDHEC) a 4-inch diameter recovery well inside of the water supply well and capped the well at the ground surface with concrete. By this well completion, flammable vapors within the building crawl space were mitigated. The recovery well (RW-2) was installed and piped to the exterior of the facility, where free-product removal could be conducted via aggressive fluid vapor recovery (AFVR).

As directed by SCDHEC, AFVR events have been conducted in various monitoring/recovery wells at the site to remove free-phase product and to reduce concentrations of dissolved chemicals of concern (CoCs). Additionally, several key source area monitoring wells (MW-2, MW-3, and MW-32) were observed to be dry during the prior assessment. Therefore, in order to define the extent of the free-phase petroleum product plume at the site, SCDHEC has required the replacement of dry monitoring wells MW-2, MW-3, and MW-32.

Please answer the following: Does this project fall under UST or Brownfields area?

UST Division (UST Permit #08650)

A6 Project/Task Description

1. ***Summarize what is known about the work to be done. This can be a short sentence indicating what the Scope of this project is (see Master QAPP Section A6).***

   Install three replacement groundwater monitoring wells and perform a subsequent site survey to incorporate the new wells in the comprehensive site-wide survey. This scope of work will be completed pursuant to the SCDHEC's Master QAPP - Section A6.

2. ***The work will begin within <u>two weeks</u> after cost approval and the project should be <u>completed within 60 days</u>.***

3. ***Are there are time or resource constraints? Include those factors that may interfere with the tentative schedule.***

   Property access, utility clearance, weather, and drill rig availability are potential time constraints for this project.

A7 Data Quality Objectives (DQOs) and Data Quality Indicators (DQIs)

Detail the geographical area that is to be part of the project. Maps should be included to show not only the topography and the geographical area of the State, but also to show more detail of the site itself including property lines.

See attached Figures 1 and 2.

A8 Training and Certificates

Required training and licenses:

Title/Job	Name	Training Required	Date Training Received	Type of License	License Number
Hydrogeologist	Thomas Lammons, P.G., CHMM	40-hour OSHA HAZWOPER & 8-Hour Refresher	2/3/12	SC Professional Geologist	#893
Hydrogeologist	Trevor Benton, P.G.	40-hour OSHA HAZWOPER & 8-Hour Refresher	2/3/12	SC Professional Geologist	#2395
Hydrogeologist	Trever Slack, P.G.	40-hour OSHA HAZWOPER & 8-Hour Refresher	2/3/12	SC Professional Geologist	#2565
Geologist	Ivan Irizarry	40-hour OSHA HAZWOPER & 8-Hour Refresher	2/3/12	N/A	N/A
Geologist	Reid Doherty	40-hour OSHA HAZWOPER & 8-Hour Refresher	2/3/12	N/A	N/A
Well Driller	Marty King	40-hour OSHA HAZWOPER & 8-Hour refresher	2/3/12	SC Well Driller	#1089
Surveyor	Ben Souther	NA	NA	PLS	#21232

Table 3A: Required Training and Licenses

Thomas L. Lammons, P.G. of Bunnell-Lammons Engineering, Inc. is responsible for ensuring that personnel participating in this project receive the proper training. All training records will be stored in the following location: Bunnell-Lammons Engineering, Inc., Human Resources Department Files c/o Ms. Esther Lande.

It is understood that training records will be produced if requested by SC DHEC.

The following Laboratory(ies) will be used for this Project:

Commercial Lab(s)

Full Name of the Laboratory: Not Applicable for this scope of work
Name of Lab Director:
SC DHEC Certification Number:
Parameters this Lab will analyze for this project:

Please note: SCDHEC may require that the contractor submit some or all of the Laboratory's SOPs as part of this QAPP.

A9 Documents and Records

Personnel will receive the most current version of the QAPP Addendum via:
(Check all that apply)

__✓__US Mail _____ Courier __✓__Hand delivered

Other (please specify): _____

Record	Produced By	Hardcopy/ Electronic	Storage Location & For how long?	Archival
Project Field Notes	BLE Personnel	Hardcopy	BLE file library. Hard copy storage for a minimum of 5 years.	After 5 years, the project data may be scanned and transferred to CD. CDs will be archived in BLE's file library.
Boring Logs	Landprobe Personnel	Hardcopy	BLE file library. Hard copy storage for a minimum of 5 years.	After 5 years, the project data may be scanned and transferred to CD. CDs will be archived in BLEs file library.
Final Report	BLE Personnel	Hardcopy & Electronic	BLE file library and electronic data storage backup. Hard copy storage for a minimum of 5 years.	After 5 years, the project data may be scanned and transferred to CD. CDs will be archived in BLEs file library.

Table 4A: Record Identification, Storage, and Disposal

Section B – Measurement/Data Acquisition

B1 Sampling Process/Experimental Design

Item	Start Date	End Date	Comments
QAPP Addendum Preparation/Approval	July 1, 2012	July 15, 2012	Date assumes two weeks for SCDHEC QAPP review.
Well Drilling	July 30, 2012	August 1, 2012	Three shallow (Type II) replacement groundwater monitoring wells will be installed to approximately 25 feet below ground surface with 10-foot screens. See SOP Attachment A for procedures for installing monitoring wells. Additionally, see attached Figure 2 for proposed monitoring well locations.
Well Development	August 1, 2012	August 1, 2012	Purge a minimum of three well volumes to remove fine-grained sediments from the well screen and filter pack.
Subsequent Site Survey	August 13, 2012	August 17, 2012	Perform a subsequent site survey to incorporate the newly installed groundwater monitoring wells and the existing monitoring wells on one site map. Survey results will be tied into the State Plane Coordinate System.
Report Preparation, Review, and Submittal	August 27, 2012	September 15, 2012	Report preparation, review, and submittal dates are contingent on completion of all required project activities. Date may be subject to change.

Table 5A: Sampling Activities

B2 Sampling Methods

Please note: The contractor must follow sampling protocols as given in the UST QAPP.

***Estimate* the number of samples of each matrix that are expected to be collected:**

Soil	0
Groundwater from Monitoring Wells	0
From Drinking/Irrigation Water Wells	0
From Surface Water Features	0
Field Duplicates	0
Field Blanks	0
Trip Blanks	0
Total Number of Water Samples	0
Total Number of Soil Samples	0

The samples will be (check as many as apply): ____Homogenized ____Split

For the sample matrices indicated above, please describe how samples will be collected and the equipment needed.

A Heron Little Dipper Water Level Indicator and/or Solinst Interface Meter will be used to measure the depth-to-water and free-product thickness in the monitoring wells upon completion of well installation activities.

Will Sampling Equipment have to be cleaned and decontaminated or is everything disposable?

Drilling rods and equipment will be decontaminated (high pressure steam-cleaning) prior to mobilizing to the site. Additionally, all drill rods will be properly decontaminated after each boring location and prior to leaving the site.

The Heron Little Dipper Water Level Indicator and Solinst Interface Meter will require cleaning and decontamination between each groundwater monitoring well.

If sampling equipment must be cleaned please give a detailed description of how this is done and the disposal of by-products from the cleaning and decontamination.

A decontamination pad will be established on-site. Soil cuttings and drilling decontamination fluids will be contained and transferred to steel 55-gallon drums, which will be staged on-site for proper disposal. High pressure steam-cleaning will be utilized as the decontamination procedure.

The Heron Little Dipper Water Level Indicator and Solinst Interface Meter will be cleaned and decontaminated by between each use. Decontamination procedures will consist of donning a new, clean pair of disposable gloves. A clean, lint free paper towel saturated with an alconox (or similar laboratory detergent)-potable water mix and a second paper towel saturated with distilled water will be used to wipe the water level tape as it is rewound onto the spool. Plastic will be placed underneath the meter to capture any rinse fluids. The water level/free-product indicator probe will be rinsed with an alconox-potable water mix, followed by a final rinse with distilled water. Used gloves and paper towels will be properly disposed of after decontamination procedures are complete.

By-products of the cleaning and decontamination will be contained in a 55-gallon drum and transported off-site for disposal at a permitted facility.

Identify any equipment and support facilities needed. This may include such things as Fed-Ex to ship the samples, a Geoprobe, field analysis done by another contractor (who must be certified), and electricity to run sampling equipment.

Equipment: CME 750X ATV drill rig

Soil/Water Disposal Contractor: A&D Environmental – 1741 Calks Ferry Road, Lexington, SC
VLS Recovery Services, LLC – 305 S. Main Street, Mauldin, SC 29662

Surveyor: Souther Land Surveying – 10253 Asheville Highway, Inman, SC (SC PLS #21232)

Address the actions to be taken when problems occur in the field, and the person responsible for taking corrective action and how the corrective action will be documented.

Failure	Response	Documentation	Individual Responsible
Property Access	Notify SCDHEC PM of failure to receive property access.	Telephone record/email correspondence to the SCDHEC placed in project file.	*Field Manager* Trevor J. Benton, P.G.
Drill Rig Breakdown	Make repairs in field or get replacement drilling equipment.	Field notes placed in project file.	*Driller* Marty King
Well Location Inaccessibility – Power Lines or Other Utilities	Move well within 5 feet of proposed boring location. Notify SCDHEC PM if location is still not accessible.	Field notes placed in project file. Telephone record/email (if applicable) to SCDHEC placed in project file.	*Field Manager* Trevor J. Benton, P.G.
Heron Little Dipper Water Level Indicator Failure	Notify field manager of equipment failure. Clean indicator probe and replace batteries in the field. If problem persists, use backup water level indicator and send failed equipment to Field Environmental Instruments, Inc. in Pittsburgh, Pennsylvania for repair.	Telephone record/email correspondence to field manager.	*Field Staff* Ivan A. Irizarry Reid A. Doherty *Field Manager* Trevor J. Benton, P.G.

Failure	Response	Documentation	Individual Responsible
Solinst Interface Meter – Model 122	Notify field manager of equipment failure. Clean indicator probe and replace batteries in the field. If problem persists, use backup water level indicator and send failed equipment to Field Environmental Instruments, Inc. in Pittsburgh, Pennsylvania for repair.	Telephone record/email correspondence to field manager.	*Field Staff* Ivan A. Irizarry Reid A. Doherty *Field Manager* Trevor J. Benton, P.G.

Table 6A: Field Corrective Action

B3 Sample Handling and Custody

1. ***How will the samples get from the Site to the Lab to ensure holding requirements are met?***

   Not Applicable for this scope of work.

2. ***How will the contractors cool the samples and keep the samples cool?***

   Not Applicable for this scope of work.

3. ***How will the lab determine the temperature of the samples upon receipt? Will they be using a temperature blank?***

   Not Applicable for this scope of work.

4. ***Where will the samples be stored in the Lab once they are received?***

   Not Applicable for this scope of work.

5. ***Describe the chain of custody procedure and attach a copy of each chain of custody that will be used. If a Chain of Custody SOP exists from the Lab and the Contractor is willing to adhere to it, then this may be attached.***

   Not Applicable for this scope of work.

B4 Analytical Methods

1. ***Identify the SOPs which will be used to analyze the samples, the method which the SOP references and the equipment or instrumentation that is needed:***

Not Applicable for this scope of work.

Parameter	SOP ID*	Method Referenced	Equipment	Comments

Table 7A: Analytical SOPs and Referenced Methods

*** This can be a full name of a SOP, an abbreviation, or a number. In the latter two cases, the abbreviation or number must be associated with the full name of the SOP. See also Table 8A SOP Abbreviation Key.**

Abbreviation	Lab Identification of this SOP	Full Name of the SOP
SOP Attachment A	SOP Attachment A	Monitoring Well Construction Procedures
SOP Attachment B	SOP Attachment B	MiniRae 3000 VOC Detector Calibration and Operation Procedures

Table 8A: SOP Abbreviation Key

2. **Identify procedures to follow when failures occur, identify the individual responsible for corrective action and appropriate documentation:**

Not Applicable for this scope of work.

Failure	Response	Documented Where?	Individual Responsible

Table 9A: Corrective Action Procedures

3. **Identify sample disposal procedures.**

Not Applicable for this scope of work.

Analysis	Matrix	Schedule for Disposal	Method for disposal	Comments

Table 10A: Sample Disposal

4. **Provide SOPs for the Kerr Method or the Ferrous Iron Method if these are parameters for this study. This can be attached or written here. If attached please note that it is an attachment and where it is located (if applicable).**

   Not Applicable for this scope of work.

B5 Quality Control Requirements:

All QC will follow the requirements laid out in Section B5 of the UST Programmatic QAPP.

B6 Field Instrument and Equipment Testing, Inspection and Maintenance

1. **Identify all field and laboratory equipment needing periodic maintenance, the schedule for this, and the person responsible. Note the availability and location of spare parts.**

Instrument	Serial Number	Type of Maintenance	Frequency	Parts Needed/Location	Person Responsible
MiniRae 3000 Photo-Ionization Detector	592-903471	Filter inspection and lamp cleaning	Filter inspection – Daily Lamp Cleaning – Monthly or as needed	Filters, calibration gases, and lamp cleaning supplies - available at Pine Environmental Services, Inc. in Lilburn, GA	Ivan Irizarry
Heron little dipper water level indicator	18816	Indicator probe cleaning and battery monitoring	Daily	Replacement probe/battery – available at Field Environmental Instruments, Inc. in Pittsburgh, PA	Ivan Irizarry
Solinst Interface Meter - Model 122	122 007909-1	Indicator probe cleaning	Daily	Replacement probe – available at Field Environmental Instruments, Inc. in Pittsburgh, PA	Ivan Irizarry

Table 11A: Instrument and Equipment Maintenance

2. **Identify the testing criteria for each lab or field instrument that is used to ensure the equipment is performing properly. Indicate how deficiencies, if found, will be resolved, re-inspections performed, and effectiveness of corrective action determined and documented. Give the person responsible for this.**

Instrument/Equipment & Serial Number	Type of Inspection	Requirement	Individual Responsible	Resolution of Deficiencies
MiniRae 3000 Photo-Ionization Detector 592-903471	Filter inspection and lamp cleaning	Inspect filter for dust, moisture, and/or debris. Inspect lamp for moisture or smudges.	Ivan Irizarry	Clean/replace PID filter and/or lamp
Heron little dipper water level indicator	Daily indicator probe cleaning and battery monitoring	Inspect probe for cracks. Verify that probe is functioning and that batteries are charged..	Ivan Irizarry	Clean/replace probe or batteries
Solinst Interface Meter - Model 122	Daily indicator probe cleaning and battery monitoring	Inspect probe for cracks. Verify that probe is functioning and that batteries are charged.	Ivan Irizarry	Clean/replace probe or batteries

Table 12A: Instrument and Equipment Inspection

B7 Instrument Calibration and Frequency

1. **Identify equipment, tools, and instruments for field or lab work that should be calibrated and the frequency.**
2. **Describe how the calibrations should be performed and documented, indicating test criteria and standards or certified equipment.**
3. **Identify how deficiencies should be resolved and documented. Identify the person responsible for corrective action.**

Instrument	Calibration Procedure	Frequency of Calibration	Acceptance Criteria	Corrective Action (CA)	Person Responsible for CA	SOP Reference*
MiniRae 3000 Photo-Ionization Detector	Zero gas calibration and span gas calibration.	Daily	Verify span gas calibration against 100 ppm isobutylene	Raise or lower span gas output value to match span gas concentration.	Ivan Irizarry	SOP Attachment B *MiniRae 3000 Volatile Organic Compound Detector Calibration Procedures*
Heron little dipper water level indicator	Calibrate against an invar steel surveyor's chain or steel tape	Monthly	Within 0.01 foot per 10 feet length	Replace water level meter tape	Ivan Irizarry	See Master QAPP
Solinst Interface Meter - Model 122	Calibrate against an invar steel surveyor's chain or steel tape	Monthly	Within 0.01 foot per 10 feet length	Replace water level meter tape	Ivan Irizarry	See Master QAPP

Table 13A: Instrument Calibration Criteria and Corrective Action

*** This can be a full name of a SOP, an abbreviation, or a number. In the latter two cases, the abbreviation or number must be associated with the full name of the SOP. See also Table 8A SOP Abbreviation Key.**

B8 Inspection/Acceptance Requirements for Supplies and Consumables

1. Identify critical supplies and consumables for field and laboratory, noting supply source, acceptance criteria, and procedures for tracking, storing and retrieving these materials.
2. Identify the individual(s) responsible for this.

Item	Vendor	Acceptance criteria	Handling/Storage Conditions	Person Responsible for Inspection and Tracking
PID calibration gas	Pine Environmental	Canister of 100 ppm factory verified Isobutylene calibration gas	Store away from heat in padded protective case	Ivan Irizarry
Leather Work Gloves	Grainger	New or in good condition (if previously used) with no tears	Store away from direct sunlight in work vehicle	Ivan Irizarry
Latex Gloves	Eon Products	New material	Store in clean supply room located at BLE office	Ivan Irizarry
PVC Well Screen, PVC Pipe, PVC End Caps, Locking Well Caps, #2 Filter Sand, 3/8-inch Bentonite Pellets, 8-inch Well Vaults, Well ID Tags	DSI, Inc.	New Material. PVC pipe must be individually sealed in plastic to protect from contamination.	Store in a clean, dry location until ready for use. Material will be handled with new disposable latex gloves to prevent cross contamination.	Marty King
Portland Cement	Lowes	New Material	Store in a dry location until ready for use.	Marty King
Concrete	Lowes	New Material	Store in a dry location until ready for use.	Marty King
55-Gallon Steel Open-Head Drums	Dependable Drum Co.	New or reconditioned. Drums with holes or cracks will not be accepted	Storage at Landprobe lay-down yard until transported to site. At the site, drums will be filled and staged in a safe location. Drums will be moved around the site with a 1,000-lb capacity drum dolly.	Marty King
36-inch Weighted Polyethylene Bailer	Eon Products	New material	Store in clean supply room located at BLE office	Ivan Irizarry
Five-gallon Polyethylene Bucket	Lowes	New or in good condition (if previously used) with no cracks or holes	Store in clean supply room located at BLE office	Ivan Irizarry
Nylon Twine	Grainger/ Lowes	New material	Store in clean supply room located at BLE office	Ivan Irizarry

Item	Vendor	Acceptance criteria	Handling/Storage Conditions	Person Responsible for Inspection and Tracking
Non-Hazardous Waste Labels (Vinyl)	Grainger	New material	Store in clean supply room located at BLE office	Ivan Irizarry

Table 14A: List of Consumables and Acceptance Criteria

B9 Data Acquisition Requirements (Non-Direct Measurements)

1. **Identify data sources, for example, computer databases or literature files, or models that should be accessed or used.**

2. **Describe the intended use of this information and the rationale for their selection, i.e., its relevance to project.**

3. **Indicate the acceptance criteria for these data sources and/or models.**

Data Source	Used For	Justification For Use In This Project	Comments
Report of AFVR Events and Comprehensive Site Survey, by BLE dated 6-16-11	Site map used to identify locations of existing groundwater monitoring wells.	Prior site map utilized for locating existing well locations and to aid in placement of new groundwater monitoring wells.	None

Table 15A: Non-Direct Measurements

4. **Identify key resources/support facilities needed.**

   Not applicable to this scope of work.

B10 Data Management

1. Describe the data management scheme from field to final use and storage.

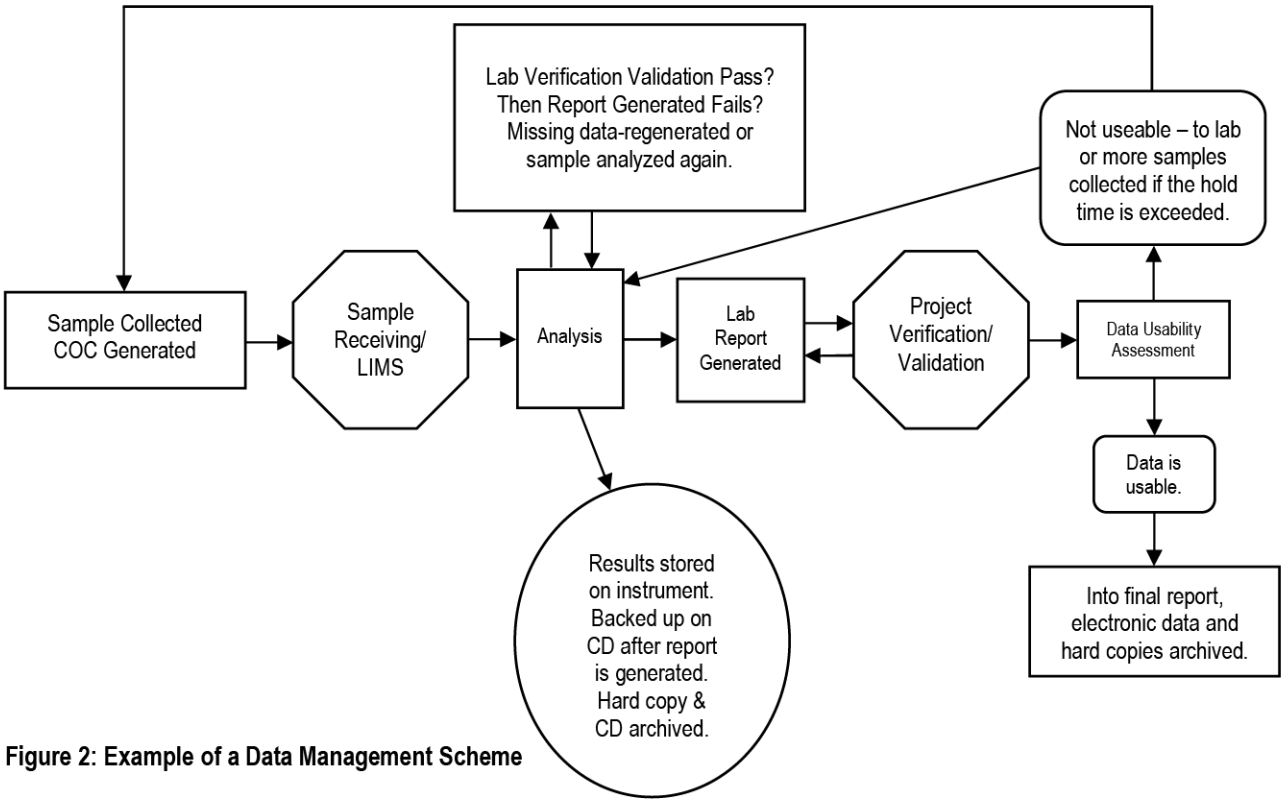


Figure 2: Example of a Data Management Scheme

2. How does the lab and field staff ensure that no unauthorized changes are made to the chain of custody, sampling notebooks, laboratory notebooks and computer records?

Field notes and logs will be stored in hardback bound field books and/or on standard 8 ½" x 11" field data sheets. Field data sheets are signed by field staff upon completion of daily work. Copies of field notes and driller 1903 forms are provided to the Field Manager on a daily basis and placed in the project file. Field boring logs are submitted to the BLE AutoCAD operator for boring log finalization. Digital copies of the final boring logs are kept on a backed-up digital file library.

Copies of field notes, boring logs, and sampling logs are reviewed by the Field Manager and placed in the project file. Additionally, field notes/logs are scanned, password secured, and placed into the digital project file. Original data sheets will also be kept by the field staff in field notebooks/folders for a minimum of three years.

3. How does the lab ensure that there are no errors in samples records including times when sample information is compiled, data calculated and/or transmitted.

Not Applicable for this scope of work.

4. How will the data be archived once the report is produced? How can it be retrieved? (This applies to both electronic and hard copies).

Hard copies of BLE's final reports are contained in the specific project folder in BLE's file library. Additionally, each report is converted to digital format and stored in its applicable digital file folder. Hard copy storage will be for a minimum of three years. Digital storage will be indefinite. Digital data is backed-up on a weekly basis on a four month rolling schedule. For security purposes, current week's data is stored at an off-site location. Additionally, data is backed-up and stored for a minimum of three years at an off-site location on a biannual basis.

Section C – Assessment and Oversight

C1 Assessment and Response Actions

1. ***The Contractor is supposed to observe field personnel daily during sampling activities to ensure samples are collected and handled properly and report problems to DHEC within 24 hours. Please state who is responsible for doing this and what observations will be made. Will this person have the authority to stop work if severe problems are seen?***

   Internal field audits may be performed on a daily basis by Trevor Benton, P.G. of Bunnell-Lammons Engineering, Inc. If any significant problems or deviations from the QAPP are noted, work may be stopped to resolve the issues. The SCDHEC project manager will be notified of the issues within 24 hours of the occurrence.

2. ***The SCDHEC UST QAPP states that the Lab will receive an Offsite Technical System Audit. For this project, what assessments will be done on the Commercial Lab(s) that are being used—other than their certification audit? When or how often are these done? Who will the results be given to and who has the ability to stop work if problems are severe?***

   Not Applicable for this scope of work.

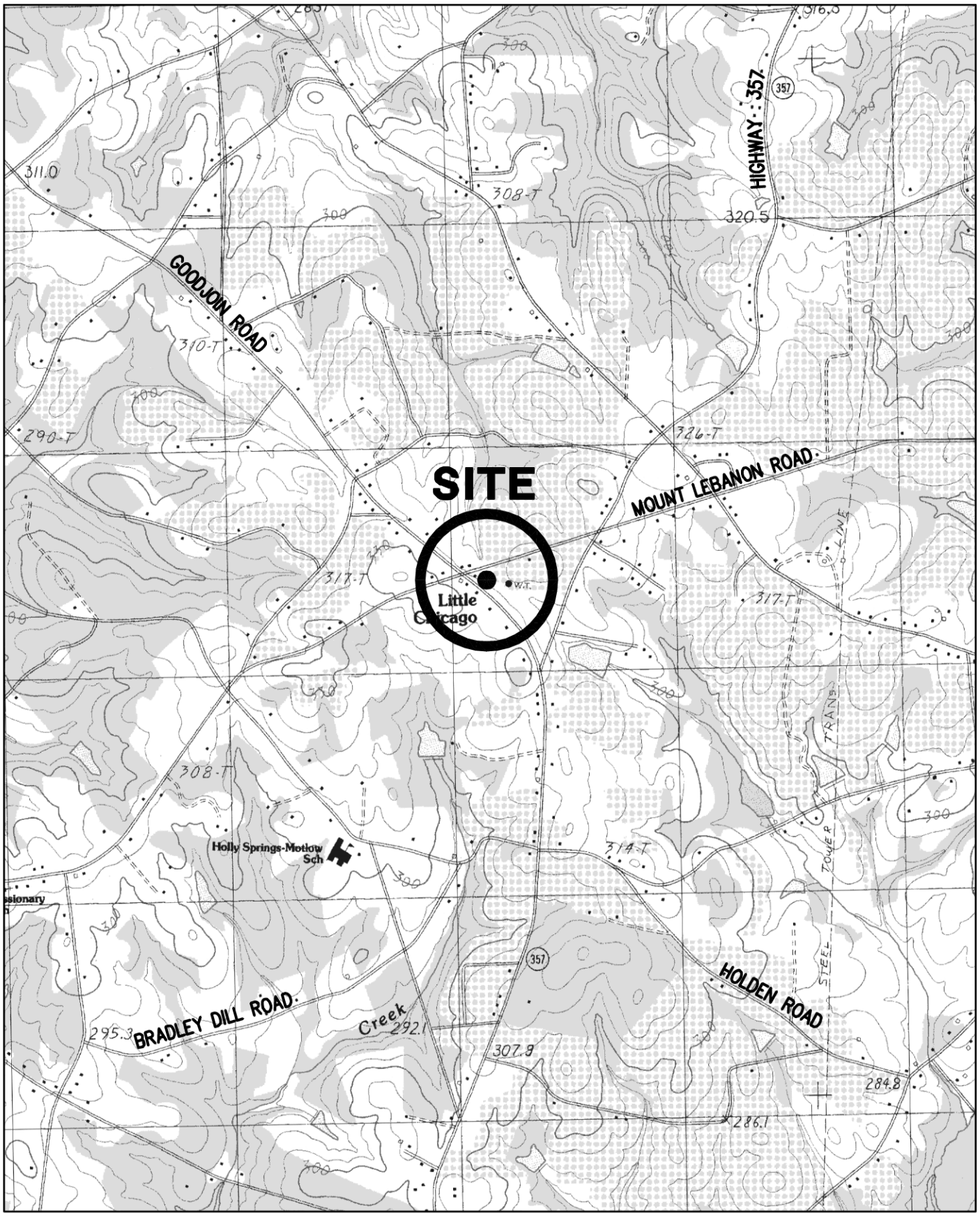
C2 Reports to Management

See the SC DHEC UST Programmatic QAPP (UST Master QAPP).

Section D – Data Validation and Usability

See the SC DHEC UST Programmatic QAPP (UST Master QAPP).

FIGURES



1 .5 0 KILOMETERS 1

1000 0 METERS 1000

REFERENCE:
USGS TOPOGRAPHIC MAP, 7.5 MINUTE SERIES, CAMPOBELLO, S.C. QUADRANGLE, 1983.

DRAWN: ACE	DATE: 07-01-11	BLE INC. BUNNELL-LAMMONS ENGINEERING, INC. 6004 PONDERS COURT GREENVILLE, SOUTH CAROLINA 29615 PHONE: (864)288-1265 FAX: (864)288-4430	SITE LOCATION MAP GEORGE SOUTHERS GROCERY UST PERMIT #08650 CAMPOBELLO, SOUTH CAROLINA	FIGURE
CHECKED: TJB	CAD: GEORGESOUGR-04SLM			1
APPROVED:	JOB NO: J12-7051-04			

REFERENCE:
DRAWING TITLED "SITE SURVEY" BY SOUTHER LAND SURVEYING, INC. DATED JANUARY 11, 2011.

DRAWN BY: ACE	DATE: 07-01-12	REVISIONS	
CHECKED BY: TJB	FILE: GEORGESOUGR-04MWLP	No. / DESCRIPTION / BY	
APPROVED BY:	JOB NO: J12-7051-04		

BLE INC.
BUNNELL-LAMMONS ENGINEERING, INC.
6004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615
PHONE: (864)288-1265 FAX: (864)288-4430

MONITORING WELL LOCATION PLAN
GEORGE SOUTHERS GROCERY
UST PERMIT #08650
CAMPOBELLO, SOUTH CAROLINA

FIGURE
2

STANDARD OPERATING PROCEDURES AND FORMS

ATTACHMENT A

MONITORING WELL CONSTRUCTION PROCEDURES

Shallow Type II Well

Type II groundwater monitoring wells consist of 2-inch polyvinyl chloride (PVC) Schedule 40 casing with flush-threaded joints installed in an 8 ½-inch nominal diameter augered borehole or 6-inch nominal diameter air rotary borehole. The bottom 10-foot section of each well is a manufactured well screen with 0.010-inch wide machined slots. The well screen is installed to the depth of the boring and brackets the water table.

A. General

In the Type II wells, a washed sand filter pack is emplaced around the outside of the pipe from the bottom of the well casing to approximately two feet above the top of the well screen. The sand filter pack is used to stabilize the formation and to help yield a less turbid groundwater sample.

An approximate two-foot thick bentonite seal is installed on top of the sand filter pack to seal the monitoring well at the desired level. The well annulus is then grouted to the surface with a cement/bentonite grout mixture. A PVC cap and flush mount steel, bolted manhole cover is secured over each wellhead.

ATTACHMENT B

MINIRAE 3000 VOLATILE ORGANIC COMPOUND (VOC) DETECTOR CALIBRATION AND OPERATION PROCEDURES

INSTRUMENT CALIBRATION

The calibration of the MiniRae 3000 (MiniRae) is a two point process using fresh air and a standard reference gas or span calibration. The fresh air calibration is performed by exposing the meter probe to a zero point gas or fresh air (0.0 parts per million (ppm)). The secondary calibration or span calibration is performed by exposing the probe to a standardized gas. Choices of calibration gases are available, but for our calibration purposes a gas cylinder of 100 ppm isobutylene is utilized.

Fresh Air (Zero) Calibration

The fresh air calibration on the MiniRae is performed by exposing the sensor to a fresh air source without trace concentrations of VOCs (reading of 0.0 ppm). The probe is exposed for approximately 30 seconds to the fresh air gas or clean ambient air. Once completed the sensor automatically updates the internal database and displays the appropriate fresh air calibration reading.

Span Calibration

For the second point calibration a standard cylinder of gas is connected to a >500 cubic centimeter per minute (cc/min) flow monitoring regulator with an attached coupling tube for the probe. Span values in the MiniRae are present for the appropriate gas. The gas is applied to the probe for approximately 30 seconds. After exposure to the span gas, the concentration readings should be within three ppm of the span gas concentration.

INSTRUMENT OPERATION

Upon completion of the calibration procedures, turn the instrument on (MODE key) and allow the unit to perform a self test. Once the self tests are complete the unit is ready to operate. When the instrument is in operation mode, gas concentrations are displayed in ppm. Instantaneous readings of the concentrations are updated every second.

ASSESSMENT COMPONENT COST AGREEMENT

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

Facility Name: **George Souther's Grocery**

UST Permit #: 08650 **Cost Agreement #**

ITEM	QUANTITY	UNIT	UNIT PRICE		TOTAL
1. **Plan***					
B. Tax Map		x	$50.00		$0.00
C. Tier II or Comp. Plan /QAPP Appendix B	1	x	$525.00		$525.00
2. **Receptor Survey ***		x	$500.00		$0.00
3. **Survey (500 x 500 feet)**					
A. Comprehensive Survey		x	$1,000.00		$0.00
B. Subsurface Geophysical Survey					
1. < 10 meters below grade		x	$2,750.00		$0.00
2. > 10 meters below grade		x	$3,250.00		$0.00
C. Geophysical UST or Drum Survey		x	$1,125.00		$0.00
4. **Mob/Demob (Each)**					
A. Equipment	1	x	$575.00		$575.00
B. Personnel	2	x	$290.00		$580.00
C. Adverse Terrain Vehicle to install wells		x	$575.00		$0.00
5. **Soil Borings (hand auger)* (Feet)**		feet x	$14.00		$0.00
6. **Soil Borings (drilled) & Field Screening ***					
Rate includes collection of water sample or soil sample, and lab or other analyses					
A. Standard		feet x	$17.00		$0.00
C. Fractured Rock		feet x	$27.50		$0.00
7. **Soil Leachability Model (Each)**		each x	$200.00		$0.00
8. **Abandonment* (per foot)**					
A. 2" diameter or less		feet x	$5.00		$0.00
B. Greater than 2" to 6" diameter		feet x	$5.50		$0.00
C. Dug/Bored well (up to 6 foot diameter)		feet x	$18.00		$0.00
9. **Well Installation* (per foot)**					
A. Water Table (hand augered)		feet x	$20.00		$0.00
B. Water Table (drill rig)	75	feet x	$38.00		$2,850.00
C. Telescoping/ Pit Cased		feet x	$58.00		$0.00
D. Rock Drilling		feet x	$58.00		$0.00
E. 2" Rock Coring		feet x	$45.00		$0.00
G. Rock Multi-sampling ports/screens		feet x	$47.20		$0.00
H. Recovery Well (4 inch diameter)		each x	$45.00		$0.00
I. Pushed Pre-packed screen (1.25 diameter)		each x	$18.50		$0.00
J. Rotosonic (2 inch diameter)		each x	$45.00		$0.00
10. **Groundwater Sample Collection / Gauge Depth to Water or Product (Each)**					
A. Groundwater Purge		wells x	$55.00		$0.00
B. Air or Vapors		samples x	$90.00		$0.00
C. Water Supply		samples x	$30.00		$0.00
D. Groundwater No Purge or Duplicate		samples x	$35.00		$0.00
E. Gauge Well only		per well x	$20.00		$0.00
F. Sample Below Product		wells x	$50.00		$0.00
G. Pasive Diffusion Bag		each x	$40.00		$0.00
H. Field Blank		each x	$5.00		$0.00

11. Laboratory Analyses-Groundwater (Each Sample)					
A1. BTEX+Naphth.+ Oxyg's+ 1,2 DCA + Ethanol		samples x	$100.00		$0.00
AA. Lead, Filtered		samples x	$46.00		$0.00
B1. Rush EPA Method 8260B (All of item A.)		samples x	$143.00		$0.00
C1. Trimethal, Butyl, and Isopropyl Benzenes		samples x	$40.00		$0.00
D. PAH's		samples x	$120.00		$0.00
E. Lead, Unfiltered		samples x	$20.00		$0.00
F. EDB by EPA 8011		samples x	$55.00		$0.00
FF. EDB by EPA Method 8011 Rush		samples x	$75.00		$0.00
G. 8 RCRA Metals		samples x	$140.00		$0.00
H. TPH (9070)		samples x	$55.00		$0.00
I. pH		samples x	$10.00		$0.00
J. BOD		samples x	$40.00		$0.00
P1. Ethanol		samples x	$21.50		$0.00
11. **Analyses-Soil (Each Sample)**					
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. Oil & Grease (9071)		samples x	$60.00		$0.00
U. TPH-DRO (3550B/8015B)		samples x	$65.00		$0.00
V. TPH- GRO (5030B/8015B)		samples x	$65.00		$0.00
W. Grain size/hydrometer		samples x	$99.00		$0.00
X. Total Organic Carbon		samples x	$35.00		$0.00
11. **Analyses-Air (Each Sample)**					
Y. BTEX + Naphthalene		samples x	$247.50		$0.00
11. **Analyses-Free Phase Product (Each Sample)**					
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* (Each)**		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	$300.00		$0.00
B. Tier II Risk Evaluation		x	$500.00		$0.00
16. **Subsequent Survey***	1	x	$300.00		$300.00
17. **Disposal* (gallons or tons)**					
A. Wastewater		gallons x	$0.80		$0.00
B1. Free Product		gallons x	$0.85		$0.00
C. Soil Treatment/Disposal	6	tons x	$72.50		$435.00
D. Drilling fluids	25	gallons x	$0.80		$20.00
18. **Miscellaneous (attach receipts)**					
		x			$0.00
		x			$0.00
		x			$0.00
20. **Tier I Assessment (Use DHEC 3665 form)**		x			$0.00
21. **IGWA (Use DHEC 3666 form)**		x			$0.00
22. **Corrective Action (Use DHEC 3667 form)**		x			$0.00

23. **Aggressive Fluid & Vapor Recovery (AFVR)**					
A. 8-hour Event*		each x	$3,000.00		$0.00
B. AFVR per-hour Continuance		per hour x	$204.00		$0.00
C. Off-gas treatment per-hour Continuance		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
B1. Refurbished GAC Sys. Install*		each x	$1,180.00		$0.00
C. Filter replacement/removal*		each x	$450.00		$0.00
D1. GAC System removal, cleaning, & refurbishment*		each x	$720.00		$0.00
E. GAC System housing		each x	$450.00		$0.00
F. In-line particulate filter		each x	$150.00		$0.00
G. Additional piping & fittings		feet x	$4.00		$0.00
25. **Well Repair**					
A. Additional Copies of the Report Delivered		each x	$32.50		$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
F. Replace well cover bolts		each x	$10.00		$0.00
G. Replace locking well cap & lock		each x	$15.00		$0.00
H. Replace/Repair stick-up		each x	$137.50		$0.00
I. Convert Flush-mount to Stick-up		each x	$175.00		$0.00
J. Convert Stick-up to Flush-mount		each x	$125.00		$0.00
K. Replace missing/illegible well ID plate		each x	$22.50		$0.00
Report Prep & Project Management	15%	x	$5,285.00		$792.75
TOTAL					$6,077.75

*The appropriate mobilization cost can be added to complete these tasks, as necessary

Mike

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OCT 16 2003

UNDERGROUND STORAGE TANK PROGRAM

PERMISSION FORM

UNDERGROUND STORAGE TANK AND PROPERTY OWNER

UST Permit #08650

If you are the owner of the former or existing underground storage tanks and the property owner, please complete this form.

I, George Souther, certify that I am the legal owner of the underground storage tanks and property 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 (SCDHEC) to secure on my behalf contractor services to conduct assessment and corrective action activities as required, and authorize SCDHEC, or a contractor selected by SCDHEC, to enter this property at reasonable times only to accomplish these site rehabilitation tasks. 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 SCDHEC 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 Division of Underground Storage Tank Management in writing.

Name of Facility Briar Patch Gro. Phone # 864-895-1889

Street Address of Facility 280 Gordjoni Rd

Town, City, District, Suburb Campobello, SC 29322

Name of nearest intersecting street, road, highway, alley Mt. Lebanon Rd

Is this facility within the city limits? (yes or no) _____

Does a public water or sewer utility service this facility? (yes or no) (water only), if no, please provide the name and phone number of a person that we can contact that can assist in the location of private water and septic tank lines George Souther, phone number 895 3253

Were underground storage tanks previously removed from the ground at this facility? (yes or no) yes If yes, please provide the name of a person we can contact that can assist in the location of the former underground storage tank excavation George Souther Phone number 895 3253

Is the property currently leased or rented to someone? (yes or no) yes. If yes, please provide their name Mr. Manney Mander and phone number _____ and let them know about the pending assessment activities. If vehicles or other mobile structures are parked over the former or existing underground storage tanks, they should be moved before SCDHEC's contractor gets to the site.

DOCKETING 24 Del

NAME of UST/property owner (Please Print): George Souther

Phone Number (home) 895 3253 (work) _____

Signature of UST/property Owner: George E. Souther

Witness: Carolyn A. Souther

Date: 10/10/03 Month 10th Day 10 Year 03

PA

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NOV 02 2005
UNDERGROUND STORAGE
TANK PROGRAM

Consultech Environmental, Inc.

1800 MacLeod Drive, Suite F
Lawrenceville, Georgia 30043
(678) 377-0400
Fax: (678) 377-0051

FAX TRANSMISSION COVER SHEET

USTech DOCKETING

Date: 11/2/05

To: MAIA MILENKOVA

Company Name: SC DHEC

Fax: (803) 896-6245

Re: GEORGE SOUTHER SCREENING

Project No.: UST # 08650

Sender: JIM WILSON

YOU SHOULD RECEIVE 10 [Pages (including cover sheet)] PAGE(S), INCLUDING THIS COVER SHEET. IF YOU DO NOT RECEIVE ALL THE PAGES, PLEASE CALL (678) 377-0400.

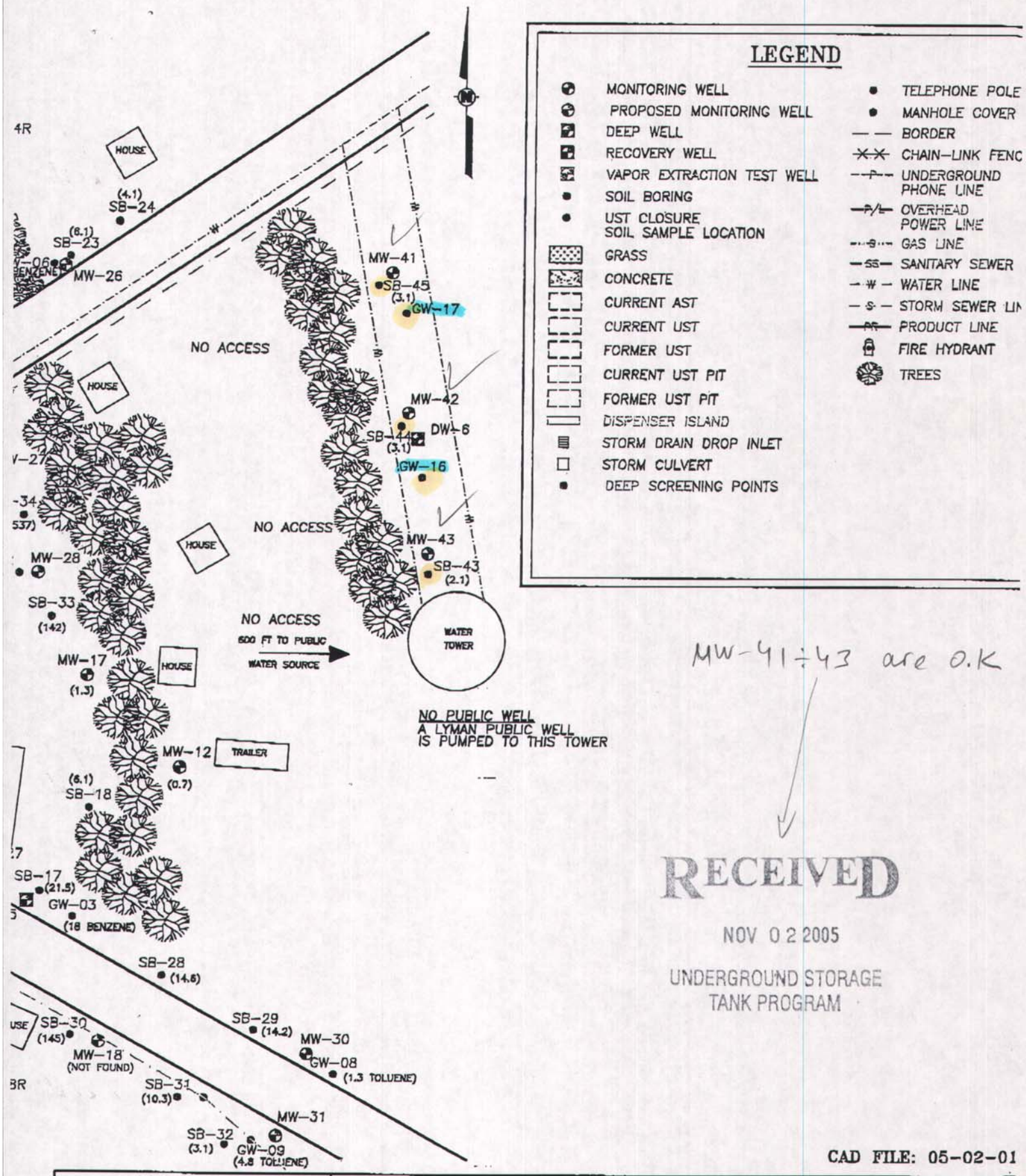
MAIA, HERE IS THE LAST OF THE SCREENING RESULTS AND WATER SAMPLES

FOR SB-43, SB-44, + SB-45
+ GW-16 + GW-17

SINCE THIS AREA IS UP ON A HILL
WATER IS AT 35' AND
MW-41, 42, + 43 WILL NOW BE 40' WELLS
PW-6 WILL STILL BE 75'

CALL ME AFTER REVIEW.

THANKS, J.



MW-41÷43 are O.K

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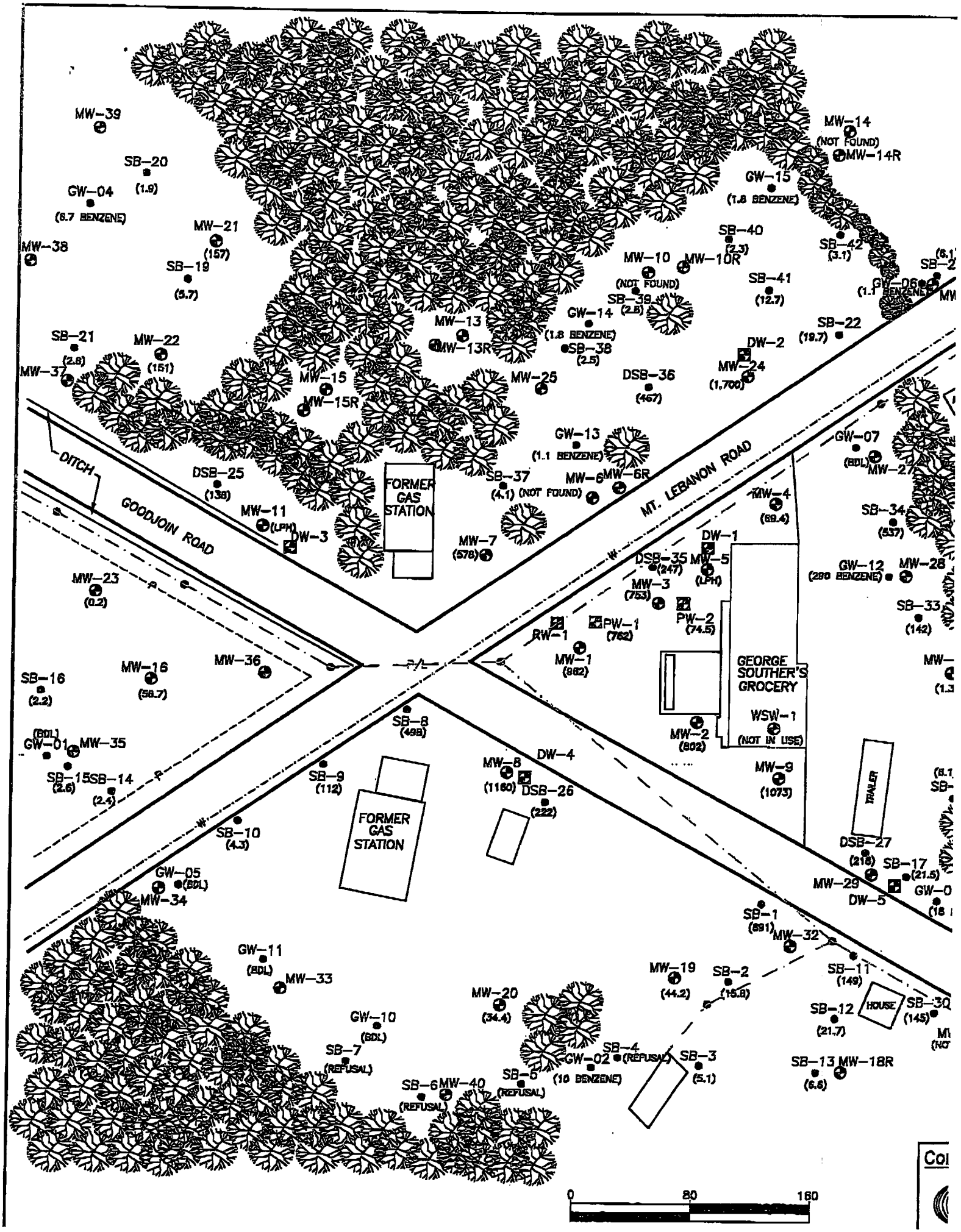
NOV 02 2005

UNDERGROUND STORAGE TANK PROGRAM

CAD FILE: 05-02-01

CONSULTECH ENVIRONMENTAL, INC. Environmental Consulting and Engineering © 1999	DRAWN: SRC	DATE: 11/02/05
	UST#: 08650	
	PROJECT: GEORGE SOUTHER'S GROCERY	
	PROJECT No.: 05-02-015	

FIGURE 2
SITE PLAN MAP


MW-39
SB-20
(1.9)
GW-04
(6.7 BENZENE)
MW-38
MW-21
(157)
SB-19
(5.7)
SB-21
(2.8)
MW-37
MW-22
(151)
MW-14
(NOT FOUND)
MW-14R
GW-15
(1.8 BENZENE)
SB-40
(2.3)
SB-42
(3.1)
MW-10
(NOT FOUND)
MW-10R
SB-41
(12.7)
SB-39
(2.8)
GW-14
(1.8 BENZENE)
SB-38
(2.5)
MW-13
MW-13R
SB-22
(19.7)
DW-2
MW-24
(1,700)
DSB-36
(467)
MW-25
MW-15
MW-15R
GW-13
(1.1 BENZENE)
GW-07
(BDL)
MW-27
DITCH
DSB-25
(138)
FORMER GAS STATION
SB-37
(4.1) (NOT FOUND)
MW-6
MW-6R
MT. LEBANON ROAD
MW-4
(69.4)
SB-34
(537)
MW-11
(LPH)
DW-3
GOODJOIN ROAD
MW-7
(578)
DW-1
DSB-35
(247)
MW-5
(LPH)
GW-12
(280 BENZENE)
MW-28
MW-23
(0.2)
MW-3
(753)
PW-2
(74.5)
SB-33
(142)
RW-1
PW-1
(762)
MW-1
(882)
GEORGE SOUTHER'S GROCERY
SB-16
(2.2)
MW-16
(56.7)
MW-36
WSW-1
(NOT IN USE)
MW-2
(802)
GW-01
(BDL)
MW-35
SB-8
(498)
DW-4
MW-8
(1160)
DSB-26
(222)
MW-9
(1073)
SB-15
(2.6)
SB-14
(2.4)
SB-9
(112)
FORMER GAS STATION
TRAILER
SB-10
(4.3)
DSB-27
(218)
SB-17
(21.5)
GW-05
(BDL)
MW-34
MW-29
DW-5
SB-1
(591)
MW-32
GW-11
(BDL)
MW-33
MW-19
(44.2)
SB-2
(15.8)
SB-11
(149)
MW-20
(34.4)
SB-12
(21.7)
HOUSE
SB-30
(145)
GW-10
(BDL)
SB-7
(REFUSAL)
SB-4
(REFUSAL)
GW-02
(10 BENZENE)
SB-3
(5.1)
SB-13
(6.6)
MW-18R
SB-6
(REFUSAL)
MW-40
SB-5
(REFUSAL)
0
80
160

Consultech Environmental, Inc.

1800 MacLeod Drive, Suite F
Lawrenceville, Georgia 30043
(678) 377-0400
Fax: (678) 377-0051

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NOV 14 2005
UNDERGROUND STORAGE TANK PROGRAM

FAX TRANSMISSION COVER SHEET

Date: 11/14/05

To: MAIA MILENKOVA

Company Name: SC DHEC

Fax: (803) 896-6245

Re: COST ADDENDUM #08650

Project No.: UST# 08650

Sender: JIM WILSON

GEORGE SOUTHER'S GROCERY
CAMPOBELLO, SC

YOU SHOULD RECEIVE 5 [Pages (including cover sheet)] PAGE(S), INCLUDING THIS COVER SHEET. IF YOU DO NOT RECEIVE ALL THE PAGES, PLEASE CALL (678) 377-0400.

MAIA, HERE IS THE COST ADDENDUM FOR UST# 08650. THIS INCLUDES THE ADDITIONAL SCREENING, WELL FOOTAGE, CHANGE OVER TO ROCK DRILLING ON DEEP WELLS AND THREE SHALLOW WELLS. THE FIRST 7 SCREENING WATER SAMPLES WERE ON NORMAL TURN AROUND TIME SO I PUT IT WITH THE ADDITIONAL BOEX/MTBE/NAPH WATER SAMPLES. THIS ALSO INCLUDES THE EXTRA SURVEY. I HAVE ALSO INCLUDED THE FINAL ESTIMATED AMOUNT. GIVE ME A CALL AFTER REVIEWING.

THANKS

Jim

D H E C

PROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

ASSESSMENT COMPONENT COST AGREEMENT
SCDHEC
Underground Storage Tank Program
State Underground Petroleum Environmental Response Bank Account
Consultech Environmental SB-26861-10/26/04-EMW

Facility Name **George Souther's Grocery Addendum**

UST Permit # **08650** Cost Agreement # 21963

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1. Plan*				
A. Plan Preparation	0	x	$50.00	$0.00
B. Tax Map	0	x	$50.00	$0.00
2. Receptor Survey *	0	x	$50.00	$0.00
3. Comprehensive Survey	1	x	$600.00	$600.00
4. Mob/Demob				
A. Equipment	1	x	$125.00	$125.00
B. Personnel	1	each x	$30.00	$30.00
C. Adverse Train Vehicle	0	x	$125.00	$0.00
5. Soil Borings (hand auger)*		feet x	$0.00	$0.00
6. Field Screening-standard	288	feet x	$10 00	$2,880.00
alternative		feet x	$0.00	$0.00
fractured rock		feet x	$0.00	$0.00
7. Soil Leachability Model		each x	$50.00	$0.00
8. Abandonment*		feet x	$4.00	$0.00
9. Well Installation*				
A. Water Table (hand auger)		feet x	$0.00	$0.00
B. Water Table (drilled)	370	feet x	$25 00	$9,250.00
C. Telescoping	0	feet x	$30.00	$0.00
D Rock Drilling	580	feet x	$35.00	$20,300.00
E. 2" Core Drilling		feet x	$0.00	$0.00
F. 4" Core Drilling		feet x	$1.00	$0.00
G. Multi sampling ports/screen intervals		feet x	$23.00	$0.00
10. Groundwater Sample Collection				
A.Groundwater	12	samples x	$30.00	$360.00
B. Air Vapor		samples x	$15.00	$0.00
C. Water Supply	0	samples x	$15.00	$0.00
D. Groundwater No Purge		samples x	$15.00	$0.00
E. Gauge Well Only	0	samples x	$15.00	$0.00
F Sample below product		samples x	$15.00	$0.00
E. Passive Diffusion Bag		per well x	$0.00	$0.00
11 Analyses-Groundwater (See Analytical Methodology for analyses)				
A. BTEX+Napth.+MTBE	19	samples x	$31.50	$598.50
B. Rush BTEX analysis	0	samples x	$63.00	$0.00
D PAH's	0	samples x	$52.00	$0.00
E Lead	12	samples x	$6.50	$78.00
F. EDB	12	samples x	$30.50	$366.00
G 8 RCRA Metals		samples x	$52.00	$0.00
H.TPH (1664)		samples x	$21.00	$0.00
I. pH		samples x	$8.50	$0.00
J. BOD		samples x	$25.50	$0.00
K. Nitrate	17	samples x	$16.00	$272.00
L. Sulfate	17	samples x	$13.50	$229 50
M. Ferrous Iron	17	samples x	$8.50	$144.50
N Methane	17	samples x	$37 00	$629 00
O Filtered Lead		samples x	$9.00	$0.00
P 8 Oxygenates	12			
1,2 DCA				

11. Analyses-Soil				
Q. BTEX + Napth	0	samples x	$31.50	$0.00
R. PAH's		samples x	$52.00	$0.00
S 8 RCRA Metals		samples x	$52.00	$0.00
U. TPH (3550B/8015B)		samples x	$34.00	$0.00
V. TPH (5030B/8015B)		samples x	$38.00	$0.00
W. Grain size/hydrometer	0	samples x	$50.00	$0.00
X. Total Organic Carbon		samples x	$19.00	$0.00
11. Analyses-Air				
Y. BTEX + Napth.		samples x	$100.00	$0.00
11. Z. Hydrocarbon Fuel Identification		samples x	$34.00	$0.00
12. A. Pumping Test*		hours x	$30.00	$0.00
B. Slug Test*	0	tests x	$30.00	$0.00
C. Fractured Rock*		tests x	$0.00	$0.00
13. Free Product Recovery Rate Test*	0	tests x	$30.00	$0.00
14 A. Mathematical Model		each x	$50.00	$0.00
B. Computer Model		each x	$150.00	$0.00
15 A. Tier 1 Risk Evaluation		x	$0.00	$0.00
B. Tier II Risk Evaluation	0	x	$150.00	$0.00
16. Subsequent Survey*		x	$100.00	$0.00
17. Disposal*				
A. Wastewater				
1. Purging/Sampling	2	drums x	$90.00	$180.00
2. Pumping Test/EFR		gallons x	$0.20	$0.00
B Free Product		drums x	$0.00	$0 00
C Soil (Treatment/Disposal)	20	drum x	$50.00	$1,000.00
		tons x	$0.00	$0.00
18 Miscellaneous (attach receipts)				
Additional Copies of Report		each x	$25.00	$0.00
Repair 2x2 monitoring well pad		each x	$20.00	$0.00
Repair 4x4 monitoring well pad		each x	$23.00	$0.00
Replace well vault		each x	$28.00	$0.00
Replace well cover and gasket		each x	$0.00	$0.00
Replace well cover bolts		each x	$0.00	$0.00
Replace locking well cap & lock		each x	$7.00	$0.00
23. EFR				
A. 8-hour Event*		each x		
B Additional Hour		per hour x		
C. Off-gas treatment		per hour x		
24 Granulated Activated Carbon (GAC) filter system installation & service				
A. New GAC System Installation*		each x		
B. Refurbished GAC Sys. Install*		each x		
C. Filter replacement/removal*		each x		
D. GAC System removal, cleaning, & refurbishmen		each x		
E. GAC System housing		each x		
F In-line particulate filter		each x		
G. Additional piping & fittings		feet x		
19. Report/Project Management and Coordination	3%	x	$37,798.50	$1,133.96
25. TOTAL				$38,932.46

*The appropriate mobilization cost can be added to complete these tasks, as necessary

D H E C

PROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

ASSESSMENT COMPONENT COST AGREEMENT
SCDHEC
Underground Storage Tank Program
State Underground Petroleum Environmental Response Bank Account
Consultech Environmental SB-26861-10/26/04-EMW

Facility Name **George Souther's Grocery Final Estimated**

UST Permit # **08650** Cost Agreement # 21963

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1. Plan*				
A. Plan Preparation	1	x	$50.00	$50.00
B. Tax Map	1	x	$50.00	$50.00
2. Receptor Survey *	1	x	$50.00	$50.00
3. Comprehensive Survey	3	x	$600.00	$1,800.00
4. Mob/Demob				
A. ~~Equipment~~	~~3~~	x	~~$125.00~~	~~$375.00~~
B. Personnel	5	each x	$30.00	$150.00
C. Adverse Train Vehicle	0	x	$125.00	$0.00
5. Soil Borings (hand auger)*		feet x	$0.00	$0.00
6 Field Screening-standard	1488	feet x	$10.00	$14,880.00
alternative		feet x	$0.00	$0.00
fractured rock		feet x	$0.00	$0.00
7. Soil Leachability Model		each x	$50.00	$0.00
8. Abandonment*		feet x	$4.00	$0.00
9. Well Installation*				
A. Water Table (hand auger)		feet x	$0.00	$0.00
B. Water Table (drilled)	520	feet x	$25.00	$13,000.00
C. Telescoping	0	feet x	$30.00	$0.00
D. Rock Drilling	580	feet x	$35.00	$20,300.00
E 2" Core Drilling		feet x	$0.00	$0.00
F. 4" Core Drilling		feet x	$1.00	$0.00
G. Multi sampling ports/screen intervals		feet x	$23.00	$0.00
10. Groundwater Sample Collection				
A.Groundwater	52	samples x	$30.00	$1,560.00
B. Air Vapor		samples x	$15.00	$0.00
C. Water Supply	0	samples x	$15.00	$0.00
D. Groundwater No Purge		samples x	$15.00	$0.00
~~E. Gauge Well Only~~	~~21~~	~~samples x~~	~~$15.00~~	~~$315.00~~
F. Sample below product		samples x	$15.00	$0.00
E. Passive Diffusion Bag		per well x	$0.00	$0.00
11. Analyses-Groundwater (See Analytical Methodology for analyses)				
A. BTEX+Napth.+MTBE	59	samples x	$31.50	$1,858.50
B. Rush BTEX analysis	0	samples x	$63.00	$0.00
D. PAH's	0	samples x	$52.00	$0.00
E Lead	52	samples x	$6.50	$338.00
F. EDB	52	samples x	$30 50	$1,586.00
G. 8 RCRA Metals		samples x	$52.00	$0.00
H.TPH (1664)		samples x	$21 00	$0.00
I. pH		samples x	$8.50	$0.00
J. BOD		samples x	$25 50	$0.00
K. Nitrate	30	samples x	$16.00	$480.00
L. Sulfate	30	samples x	$13.50	$405.00
M. Ferrous Iron	30	samples x	$8.50	$255.00
N Methane	30	samples x	$37.00	$1,110.00
O. Filtered Lead	?	samples x	$9.00	$0.00
P.	?		$63	

11. Analyses-Soil				
Q. BTEX + Napth.	0	samples x	$31.50	$0.00
R. PAH's		samples x	$52.00	$0.00
S. 8 RCRA Metals		samples x	$52.00	$0.00
U. TPH (3550B/8015B)		samples x	$34.00	$0.00
V. TPH (5030B/8015B)		samples x	$38.00	$0.00
W. Grain size/hydrometer	0	samples x	$50.00	$0.00
X. Total Organic Carbon		samples x	$19.00	$0.00
11. Analyses-Air				
Y. BTEX + Napth.		samples x	$100.00	$0.00
11. Z. Hydrocarbon Fuel Identification		samples x	$34.00	$0.00
12 A. Pumping Test*		hours x	$30.00	$0.00
B. Slug Test*	0	tests x	$30.00	$0.00
C. Fractured Rock*		tests x	$0.00	$0.00
13. Free Product Recovery Rate Test*	2	tests x	$30.00	$60.00
14. A. Mathematical Model		each x	$50.00	$0.00
B. Computer Model		each x	$150.00	$0.00
15. A. Tier 1 Risk Evaluation		x	$0.00	$0.00
B. Tier II Risk Evaluation	0	x	$150.00	$0.00
16. Subsequent Survey*		x	$100.00	$0.00
17. Disposal*				
A. Wastewater				
1. Purging/Sampling	10	drums x	$90.00	$900.00
2. Pumping Test/EFR		gallons x	$0.20	$0.00
B. Free Product		drums x	$0 00	$0.00
C. Soil (Treatment/Disposal)	70	drum x	$50.00	$3,500.00
		tons x	$0.00	$0.00
18. Miscellaneous (attach receipts)				
Additional Copies of Report		each x	$25.00	$0.00
Repair 2x2 monitoring well pad		each x	$20.00	$0.00
Repair 4x4 monitoring well pad		each x	$23.00	$0.00
Replace well vault		each x	$28.00	$0.00
Replace well cover and gasket		each x	$0.00	$0.00
Replace well cover bolts		each x	$0.00	$0.00
Replace locking well cap & lock		each x	$7.00	$0.00
23. EFR				
A. 8-hour Event*		each x		
B. Additional Hour		per hour x		
C. Off-gas treatment		per hour x		
24 Granulated Activated Carbon (GAC) filter system installation & service				
A. New GAC System Installation*		each x		
B Refurbished GAC Sys. Install*		each x		
C. Filter replacement/removal*		each x		
D GAC System removal. cleaning, & refurbishmen		each x		
E. GAC System housing		each x		
F. In-line particulate filter		each x		
G. Additional piping & fittings		feet x		
19. Report/Project Management and Coordination	3%	x	$66,298.50	$1,988.96
25. TOTAL				$68,287.46

*The appropriate mobilization cost can be added to complete these tasks, as necessary

Consultech Environmental, Inc.

1800 MacLeod Drive, Suite F
Lawrenceville, Georgia 30043
(678) 377-0400
Fax: (678) 377-0051

RECEIVED
JAN 10 2006
UNDERGROUND STORAGE TANK PROGRAM

FAX TRANSMISSION COVER SHEET

Date: 1/10/06

To: MAIA MILENKOVA Company Name: SCDHEC

Fax: 803 896-6245

Re: GEORGE SOUTHER ADDENDUM Project No.: UST # 08650

Sender: JIM WILSON

YOU SHOULD RECEIVE 5 [Pages (including cover sheet)] PAGE(S), INCLUDING THIS COVER SHEET. IF YOU DO NOT RECEIVE ALL THE PAGES, PLEASE CALL (678) 377-0400.

MAIA, HERE IS THE ADDENDUM FOR THE EDB DELINEATION AT GEORGE SOUTHER. I PUT THE RUSH EDB IN THE ADDENDUM AS WELL.

WE DO NOT HAVE ACCESS BETWEEN MW-12 AND MW-30 BUT OUR ACCESS ENDS AT MW-12.

I PUT ONE EXTRA SCREENING POINT BETWEEN MW-29 + MW-30 TO SEE IF WHAT IS IN MW-30 IS FROM THE SITE WE DO HAVE DOT ACCESS

CALL ME WITH QUESTIONS. THANKS

Jim

D H E C

PROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

ASSESSMENT COMPONENT COST AGREEMENT
SCDHEC
Underground Storage Tank Program
State Underground Petroleum Environmental Response Bank Account
Consultech Environmental SB-26861-10/26/04-EMW

RECEIVED
JAN 10 2006
UNDERGROUND STORAGE TANK PROGRAM

Facility Name **George Souther's Grocery Addendum #2**

UST Permit # **08650** Cost Agreement # 21963

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1. Plan*				
A. Plan Preparation	0	x	$50.00	$0.00
B. Tax Map	0	x	$50.00	$0.00
2. Receptor Survey *	0	x	$50.00	$0.00
3. Comprehensive Survey	0	x	$600.00	$0.00
4. Mob/Demob				
A. Equipment	2	x	$137.50	$275.00
B. Personnel	4	each x	$33.00	$132.00
C. Adverse Train Vehicle	0	x	$125.00	$0.00
5. Soil Borings (hand auger)*		feet x	$0.00	$0.00
6. Field Screening-standard 4x30'	120	feet x	$10.00	$1,200.00
alternative		feet x	$0.00	$0.00
fractured rock		feet x	$0.00	$0.00
7. Soil Leachability Model		each x	$50.00	$0.00
8. Abandonment*		feet x	$4.00	$0.00
9. Well Installation*				
A. Water Table (hand auger)		feet x	$0.00	$0.00
B. Water Table (drilled)	90	feet x	$25.00	$2,250.00
C. Telescoping	0	feet x	$30.00	$0.00
D. Rock Drilling	0	feet x	$35.00	$0.00
E. 2" Core Drilling		feet x	$0.00	$0.00
F. 4" Core Drilling		feet x	$1.00	$0.00
G. Multi sampling ports/screen intervals		feet x	$23.00	$0.00
10. Groundwater Sample Collection				
A.Groundwater	3	samples x	$30.00	$90.00
B. Air Vapor		samples x	$15.00	$0.00
C. Water Supply	0	samples x	$15.00	$0.00
D. Groundwater No Purge		samples x	$15.00	$0.00
E. Gauge Well Only	0	samples x	$15.00	$0.00
F. Sample below product		samples x	$15.00	$0.00
E. Passive Diffusion Bag		per well x	$0.00	$0.00
11. Analyses-Groundwater (See Analytical Methodology for analyses)				
A. BTEX+Napth.+MTBE wells	3	samples x	$31.50	$94.50
B. Rush BTEX analysis	0	samples x	$63.00	$0.00
D. PAH's	0	samples x	$52.00	$0.00
E. Lead	3	samples x	$6.50	$19.50
F. EDB	3	samples x	$30.50	$91.50
F. Rush EDB (FS)	4	samples x	$61.00	$244.00
G. 8 RCRA Metals		samples x	$52.00	$0.00
H.TPH (1664)		samples x	$21.00	$0.00
I. pH		samples x	$8.50	$0.00
J. BOD		samples x	$25.50	$0.00
K. Nitrate	0	samples x	$16.00	$0.00
L. Sulfate	0	samples x	$13.50	$0.00
M. Ferrous Iron	0	samples x	$8.50	$0.00
N. Methane	0	samples x	$37.00	$0.00
O. Filtered Lead		samples x	$9.00	$0.00
P. 8 Oxygenates	3	samples x	$63.00	$189.00
1,2-DCA	3	samples x	$0.00	$0.00

11. Analyses-Soil				
Q. BTEX + Napth.	0	samples x	$31.50	$0.00
R. PAH's		samples x	$52.00	$0.00
S. 8 RCRA Metals		samples x	$52.00	$0.00
U. TPH (3550B/8015B)		samples x	$34.00	$0.00
V. TPH (5030B/8015B)		samples x	$38.00	$0.00
W. Grain size/hydrometer	0	samples x	$50.00	$0.00
X. Total Organic Carbon		samples x	$19.00	$0.00
11. Analyses-Air				
Y. BTEX + Napth.		samples x	$100.00	$0.00
11. Z. Hydrocarbon Fuel Identification		samples x	$34.00	$0.00
12. A. Pumping Test*		hours x	$30.00	$0.00
B. Slug Test*	0	tests x	$30.00	$0.00
C. Fractured Rock*		tests x	$0.00	$0.00
13. Free Product Recovery Rate Test*	0	tests x	$30.00	$0.00
14. A. Mathematical Model		each x	$50.00	$0.00
~~B. Computer Model~~		~~each x~~	~~$150.00~~	~~$0.00~~
15. A. Tier 1 Risk Evaluation		x	$0.00	$0.00
B. Tier II Risk Evaluation	0	x	$150.00	$0.00
16. Subsequent Survey*	1	x	$100.00	$100.00
17. Disposal*				
A. Wastewater				
1. Purging/Sampling	1	drums x	$90.00	$90.00
2. Pumping Test/EFR		gallons x	$0.20	$0.00
B. Free Product		drums x	$0.00	$0.00
C. Soil (Treatment/Disposal)	6	drum x	$50.00	$300.00
		tons x	$0.00	$0.00
18. Miscellaneous (attach receipts)				
Additional Copies of Report		each x	$25.00	$0.00
Repair 2x2 monitoring well pad		each x	$20.00	$0.00
Repair 4x4 monitoring well pad		each x	$23.00	$0.00
Replace well vault		each x	$28.00	$0.00
Replace well cover and gasket		each x	$0.00	$0.00
Replace well cover bolts		each x	$0.00	$0.00
Replace locking well cap & lock		each x	$7.00	$0.00
23. EFR				
A. 8-hour Event*		each x		
B. Additional Hour		per hour x		
C. Off-gas treatment		per hour x		
24. Granulated Activated Carbon (GAC) filter system installation & service:				
A. New GAC System Installation*		each x		
B. Refurbished GAC Sys. Install*		each x		
C. Filter replacement/removal*		each x		
D. GAC System removal, cleaning, & refurbishmen		each x		
E. GAC System housing		each x		
F. In-line particulate filter		each x		
G. Additional piping & fittings		feet x		
19. Report/Project Management and Coordination	3%	x	$5,075.50	$152.27
25. **TOTAL**				$5,227.77

*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

JUL 2 4 2012

UST DOCKETING 26tech

MR GEORGE E SOUTHER
280 GOODJOIN ROAD
CAMPOBELLO SC 29322

Re: **Monitoring Well Installation**
George Souther's Grocery (former), 280 Goodjoin Road, Campobello, SC
UST Permit #08650; Cost Agreement #43400; Monitoring Well Approval #UMW-24678
Release reported December 31, 1991
Report of Aggressive Fluid Vapor Recovery Events and Comprehensive Survey received June 21, 2011
Site Specific QAPP Contractor Addendum and Associated Cost Agreement received July 6, 2012
Spartanburg County

Dear Mr. Souther:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the referenced addendum submitted on your behalf by Bunnell-Lammons Engineering, Inc. The previous assessment work for this release indicates that free-phase petroleum is present in the groundwater. In order to perform future Aggressive Fluid Vapor Recovery and groundwater sampling events in areas of free-phase product and/or high concentrations of chemicals of concern, well installation to replace dry monitoring wells is necessary. All work should be conducted in accordance with the UST Quality Assurance Division Plan and must be conducted in compliance with all applicable regulations. A copy of the Agency Quality Assurance Program Plan (QAPP) for the UST Division is available at: http://www.scdhec.gov/environment/lwm/html/ust.htm.

Monitoring well installation activities at the site should begin immediately upon receipt of this letter. Cost Agreement #43400 has been approved for the amount shown on the enclosed cost agreement form for the installation of three (3) monitoring wells. The wells should be installed adjacent to existing wells MW-2, MW-3, and MW-32.

The Well Installation 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.

Bunnell-Lammons Engineering, Inc. can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. Interim invoices may not be submitted for this scope of work. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. Please note that applicable South Carolina certification requirements regarding well installation 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 from the UST 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 UST Division 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 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.

On all correspondence regarding this site, please reference **UST Permit #08650 and Cost Agreement #43400**. If you have any questions regarding this correspondence, please contact me by telephone at (803) 896-4078, by fax at (803) 896-6245, or by e-mail to RiversMS@dhec.sc.gov.

Sincerely,

Michael Rivers, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

Enc: Approved Cost Agreement
Monitoring Well Approval UMW-24678
Signed Site Specific QAPP Contractor Addendum

cc: Mr. Trevor J. Benton, P.G., Bunnell-Lammons Engineering, Inc., 6004 Ponders Court, Greenville, SC 29615 (w/ enc.)
Technical File (w/ enc.)

MR/MWIDIR07.17.12

D H E C

PROMOTE PROTECT PROSPER

Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

Monitoring Well Approval

Approval is hereby granted to: Bunnell-Lammons Engineering, Inc.
(On behalf of): Mr. George E. Souther
Facility: George Souther's Grocery (former), 280 Goodjoin Road, Campobello, SC
UST Permit Number: 08650
County: Spartanburg

This approval is for the installation of three (3) groundwater monitoring wells designated MW-2R, MW-3R, and MW-32R. The monitoring well are to be installed adjacent to existing wells MW-2, MW-3, and MW-32 in accordance with 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 (DHEC 1903) or other form provided or approved by the Agency shall be completed and submitted to the Agency within 30 days after well completion or abandonment unless the Agency has approved another schedule. 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 Agency within 30 days of receipt of laboratory results unless another schedule has been approved by the Agency as required by R.61-71.H.1.d.
5. If any of the information provided to the Agency changes, notification to Mike Rivers at (803) 896-4078 or e-mail to RiversMS@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. Agency 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 17, 2012 **Approval #: UMW-24678**

Michael Rivers, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

Section A – Project Management

A1 Title and Approval Page

Quality Assurance Project Plan
Addendum to the SCDHEC UST Programmatic QAPP
For
George Souther's Grocery – UST Permit #08650

280 Goodjoin Road, Campobello, Spartanburg County, South Carolina

Prepared by: Trevor J. Benton, P.G. – Bunnell-Lammons Engineering, Inc.

Date: July 1, 2012

Bunnell-Lammons Engineering, Inc. – SCDHEC Certified Contractor No. UCC-010

Approvals

Michael Rivers SCDHEC Project Manager	Signature	Date 07/17/12
Trever Z. Slack, P.G. Contractor QA Manager	Signature	Date 7/1/12
Thomas L. Lammons, P.G. Site Rehabilitation Contractor	Signature	Date 7/1/12

Approved Cost Agreement 43400

Facility: 08650 GEORGE SOUTHER'S GROCERY
RIVERSMS
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
01 PLAN						
		C	TIER II/COMP. PLAN/QAPP APP B	1.0000	525.00	525.00
04 MOB/DEMOB						
		A	EQUIPMENT	1.0000	575.00	575.00
		B	PERSONNEL	2.0000	290.00	580.00
09 WELL INSTALLATION						
		B	WATER TABLE (DRILLED)	90.0000	38.00	3,420.00
16 SUBSEQUENT SURVEY						
			SUBSEQUENT SURVEY	1.0000	300.00	300.00
17 DISPOSAL						
		C	SOIL (TREATMENT/DISPOSAL)	6.0000	72.50	435.00
		D	DRILLING FLUIDS	25.0000	0.80	20.00
19 RPT/PROJECT MNGT & COORDINATIO						
		PCT	PERCENT	0.1500	5,855.00	878.25
				Total Amount		6,733.25

BUNNELL-LAMMONS ENGINEERING, INC.

GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

REPORT OF GROUNDWATER MONITORING WELL INSTALLATIONS

Former George Souther's Grocery
280 Goodjoin Road
Campobello, South Carolina
UST Permit #08650; Cost Agreement #43400

Prepared For:

Mr. George Souther
280 Goodjoin Road
Campobello, South Carolina 29322

Prepared By:

Bunnell-Lammons Engineering, Inc.
6004 Ponders Court
Greenville, South Carolina 29615
SCDHEC Certified Contractor No. UCC-010

November 7, 2012

BLE Project Number J12-7051-04

BUNNELL-LAMMONS ENGINEERING, INC.
GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

November 7, 2012

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management
Underground Storage Tank Division
2600 Bull Street
Columbia, South Carolina 29201-1708

Attention: Mr. Michael Rivers

Subject: **Report of Groundwater Monitoring Well Installations**
Former George Souther's Grocery
280 Goodjoin Road
Campobello, South Carolina
UST Permit #08650; Cost Agreement #43400
BLE Project No. J12-7051-04

Dear Mr. Rivers:

On behalf of Mr. George Souther, Bunnell-Lammons Engineering, Inc. (BLE) has completed the installation of two replacement groundwater monitoring wells and performed a free-product gauging event at the subject site. This scope of work was performed in response to the South Carolina Department of Health and Environmental Control's (SCDHEC) directive dated July 24, 2012 and in accordance with BLE's Quality Assurance Project Plan (QAPP) Addendum dated July 1, 2012. This report describes the work performed and presents the results obtained, along with our comments and recommendations. Please do not hesitate to contact us if you have any questions concerning this report.

Sincerely,

BUNNELL-LAMMONS ENGINEERING, INC.

Trevor J. Benton, P.G.
Project Hydrogeologist
Registered, South Carolina No. 2395

Thomas L. Lammons, P.G., CHMM
Principal Hydrogeologist
Registered, South Carolina No. 893

cc: Mr. George Souther, 280 Goodjoin Road, Campobello, South Carolina 29322

6004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615

PHONE (864) 288-1265
FAX (864) 288-4430

BACKGROUND INFORMATION

The subject property is located at the intersection of Goodjoin Road and Mt. Lebanon Road in Campobello, South Carolina (Figure 1). The site currently operates as a convenience store and petroleum retail store. Structures on the property consist of a convenience store/office building, fuel dispenser islands under a steel canopy, and four active underground storage tanks registered under UST Permit #14391. Adjacent parcels primarily consist of residential properties and woodlands.

In December 1991, one 550-gallon kerosene UST, one 3,000-gallon diesel UST, one 4,000-gallon gasoline UST, and three 3,000-gallon gasoline USTs were abandoned by removal. The tanks were replaced by one 2,000-gallon kerosene UST, one 2,000-gallon diesel UST, one 6,000-gallon gasoline UST, and one 10,000-gallon gasoline UST (under new UST permit #14391) and are currently in operation today. In response to a release of petroleum contaminants detected during the UST closure, 53 groundwater monitoring/recovery wells were installed by other contractors to assess the horizontal and vertical extent of petroleum hydrocarbons in the water table aquifer. Additionally, free-phase petroleum product has been detected in several monitoring and recovery wells at the facility over the years; including in a former water supply well converted to recovery well (RW-2), which is located in the crawl space of the store. RW-2 has been plumbed to the exterior of the facility, where free-product removal can be conducted via aggressive fluid vapor recovery (AFVR).

In November/December 2010, BLE conducted three AFVR events on existing monitoring/recovery wells MW-5, MW-7, RW-1, and RW-2 and completed an updated comprehensive survey at the site (*Report of Aggressive Fluid Vapor Recovery Events and Comprehensive Survey* dated June 16, 2011). Three existing monitoring wells which have historically contained measurable free-product (MW-2, MW-3, and MW-32) were observed to be dry during the previous scope of work. Therefore, in order to better define the extent of the free-product plume, SCDHEC has required the replacement (deepening) of dry monitoring wells MW-2, MW-3, and MW-32. This report documents the results of these activities.

MONITORING WELL INSTALLATION

On August 31, 2012, BLE personnel and Landprobe Drilling (Landprobe) of Greenville, South Carolina (Robert Banks – SCWD #B400) mobilized to the site to install replacement groundwater monitoring wells MW-2R, MW-3R, and MW-32R to provide deeper well constructions. The existing monitoring wells were gauged prior to initiating drilling activities to verify that the wells were still dry. Gauging data indicated that monitoring wells MW-2 and MW-3 were dry; however, monitoring well MW-32 had a sufficient free-product/water column. Therefore, only wells MW-2 and MW-3 were required to be replaced during this scope of work to reach the needed monitoring depths. The new borings were performed using a CME 75 ATV drill rig employing 4 ¼-inch inner diameter (ID) hollow stem augers (8 ½-inch outer diameter). The wells were installed in accordance with BLE's QAPP Addendum dated July 1, 2012.

The new replacement (Type II) monitoring wells consist of 2-inch ID, schedule 40 PVC casing with flush threaded joints installed to the termination depth of the borehole. The bottom 10-foot section of each well is a manufactured well screen with 0.010-inch wide machined slots and was installed to bracket the water table. Standard filter sand pack, bentonite seal, and grout were installed to the ground surface. Monitoring well construction data is provided in Table 1. Drilling procedures and monitoring well installation details (boring logs) are provided in Appendix A.

Down-hole drilling equipment was steam cleaned (decontaminated) prior to and after each use. Drill cuttings and decontamination water generated during the installation of the monitoring wells were contained in 55-gallon drums, on-site. These wastes were transported off-site for disposal. Waste transportation and disposal records are in Appendix B.

SUBSEQUENT SURVEY AND FREE-PRODUCT GAUGING

On September 17, 2012, the new monitoring wells were surveyed by Souther Land Surveying (George B. Souther - PLS 21232) of Inman, South Carolina to establish horizontal control and vertical elevations of the top of PVC casings and ground surface. The new well locations were

incorporated into the existing comprehensive survey of the site which was completed by Souther Land Surveying on January 17, 2011. A copy of the updated survey is provided as Figure 2.

On September 5, 2012, BLE personnel mobilized to the site to conduct free-product gauging in select monitoring wells. Nineteen monitoring and recovery wells (MW-1, MW-2, MW-2R, MW-3, MW-3R, MW-5 through MW-9, MW-11, MW-19, MW-28, MW-29, MW-32, RW-1, RW-2, PW-1, and PW-2) were gauged with a Solinst Interface Meter Model 122 for the presence of petroleum free-product. Free-product thicknesses ranged from 0.06 feet in MW-3R and MW-5 to 1.26 feet in RW-2 (located in crawl space beneath the store). Free-product measurements for the gauged wells are provided on Figure 3.

CONCLUSIONS AND RECOMMENDATIONS

Two Type II groundwater monitoring wells (MW-2R and MW-3R) were installed to provide deeper monitoring access in accordance with BLE's QAPP Addendum dated July 1, 2012. Upon installation, the wells were surveyed and incorporated into the existing comprehensive site survey. Additionally, in an effort to identify the nature of the free-product plume at the site, BLE personnel gauged existing wells MW-1, MW-2, MW-2R, MW-3, MW-3R, MW-5 through MW-9, MW-11, MW-19, MW-28, MW-29, MW-32, RW-1, RW-2, PW-1, and PW-2 for the presence of petroleum free-product. Measurable free-product was detected in nine wells (MW-2R, MW-3R, MW-5, MW-7, MW-8, MW-11, MW-32, RW-1, and RW-2).

Since free-product continues to be present at the subject site, we recommend a series of five 8-hour AFVR events be conducted to 1) remove residual free-phase product from the area around each extraction point, 2) remove petroleum hydrocarbon vapors from the unsaturated zone, and 3) remove petroleum impacted groundwater (mass) from the subsurface. Due to the distance between the wells with free-product, we recommend performing the additional AFVRs in the following well combinations:

- AFVR Event 1: RW-2 and MW-5;
- AFVR Event 2: RW-1 and MW-3R;
- AFVR Event 3: MW-2R;

- AFVR Event 4: MW-8 and MW-32; and
- AFVR Event 5: MW-7 and MW-11.

Approximately 30 days after completion of the final AFVR event, we recommend a comprehensive groundwater sampling event of all monitoring wells associated with the site be conducted to evaluate contaminant concentration trends. According to our records, site-wide groundwater sampling has not been conducted at the facility since December 2010.

QUALIFICATION OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessments of this type. Our evaluation of site conditions has been based on our understanding of the site and project information and the data obtained in our exploration.

This report has been prepared on behalf of and exclusively for the use of Mr. George Souther. This report and the findings contained herein shall not, in whole or in part, be used or relied upon by any other party without BLE's prior written consent. Any unauthorized use or distribution of BLE's work shall be at third parties risk and without liability to BLE.

TABLE

TABLE 1

New Monitoring Well Construction Data

Former George Souther's Grocery
Campobello, South Carolina
SCDHEC UST Permit #08650; Cost Agreement #43400
BLE Project Number J12-7051-04

Monitoring Well	Northing	Easting	Ground Elev.	TOC Elev.	Well Depth BGS	Screened Interval Depth BGS	Screened Interval Elevation
MW-2R	1177020.351	1645890.25	100.30	100.05	28.1	17.9 - 27.9	82.40 - 72.40
MW-3R	1177084.485	1645878.243	97.10	96.84	27.2	22.0 - 27.0	75.10 - 70.10

NOTES:

Measurements are in feet.

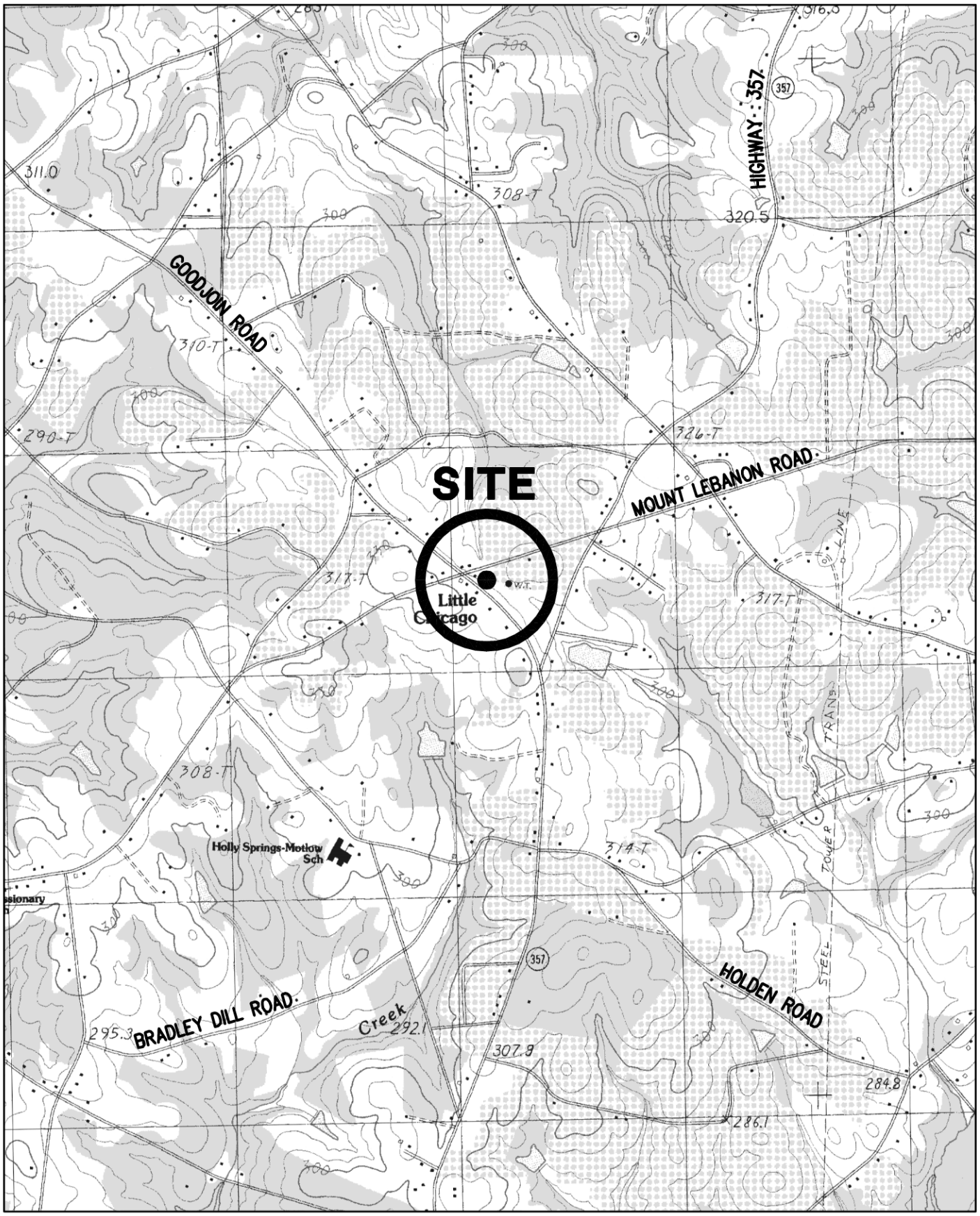
Elevations are relative to an arbitrary site datum

BTOC - Below Top Of Casing

BGS - Below Ground Surface

Prepared By: TJB
Checked By: IAI

FIGURES

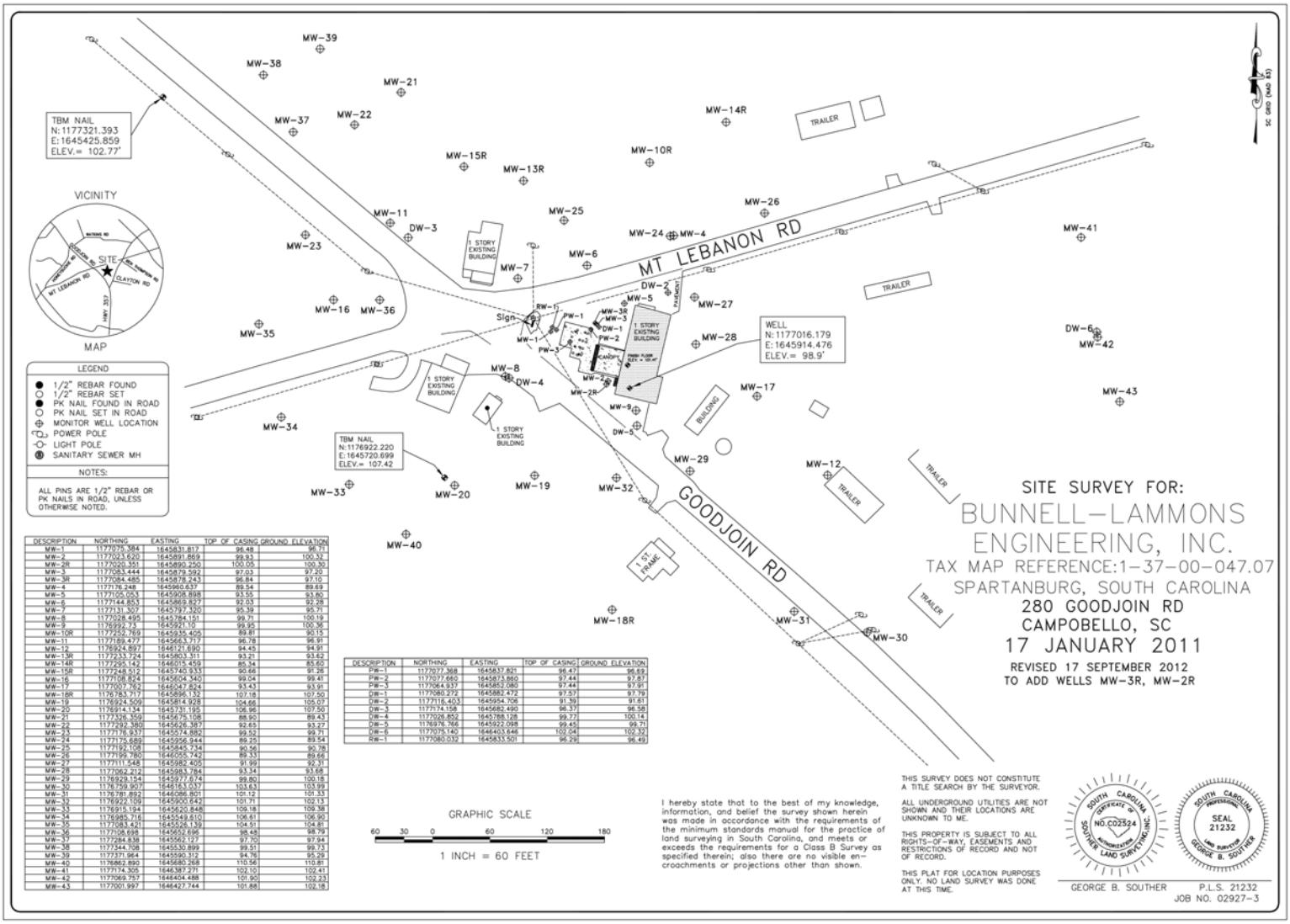


1 .5 0 KILOMETERS 1

1000 0 METERS 1000

REFERENCE:
USGS TOPOGRAPHIC MAP, 7.5 MINUTE SERIES, CAMPOBELLO, S.C. QUADRANGLE, 1983.

DRAWN: ACE	DATE: 10-05-12	BLE INC. BUNNELL-LAMMONS ENGINEERING, INC. 6004 PONDERS COURT GREENVILLE, SOUTH CAROLINA 29615 PHONE: (864)288-1265 FAX: (864)288-4430	SITE LOCATION MAP GEORGE SOUTHERS GROCERY UST PERMIT #08650 CAMPOBELLO, SOUTH CAROLINA	FIGURE
CHECKED: TJB	CAD: GEORGESOUGR-04SLM			1
APPROVED:	JOB NO: J12-7051-04			



DESCRIPTION	NORTHING	EASTING	TOP OF CASING	GROUND ELEVATION
MW-1	1177075.384	1645831.817	96.48	96.71
MW-2	1177023.620	1645891.869	99.93	100.32
MW-2R	1177020.351	1645890.250	100.05	100.30
MW-3	1177083.444	1645879.592	97.03	97.20
MW-3R	1177084.485	1645878.243	96.84	97.10
MW-4	1177176.248	1645960.637	89.54	89.69
MW-5	1177105.053	1645908.898	93.55	93.80
MW-6	1177144.853	1645869.827	92.03	92.28
MW-7	1177131.307	1645797.320	95.39	95.71
MW-8	1177028.495	1645784.151	99.71	100.19
MW-9	1176992.73	1645921.10	99.95	100.36
MW-10R	1177252.769	1645935.405	89.81	90.15
MW-11	1177189.477	1645663.717	96.78	96.91
MW-12	1176924.897	1646121.690	94.45	94.91
MW-13R	1177233.724	1645803.311	93.21	93.62
MW-14R	1177295.142	1646015.459	85.34	85.60
MW-15R	1177248.512	1645740.933	90.66	91.26
MW-16	1177108.824	1645604.340	99.04	99.41
MW-17	1177007.762	1646047.824	93.43	93.91
MW-18R	1176783.717	1645896.132	107.18	107.50
MW-19	1176924.509	1645814.928	104.66	105.07
MW-20	1176914.134	1645731.195	106.96	107.50
MW-21	1177326.359	1645675.108	88.90	89.43
MW-22	1177292.380	1645626.387	92.65	93.27
MW-23	1177176.937	1645574.882	99.52	99.71
MW-24	1177175.689	1645956.944	89.25	89.54
MW-25	1177192.108	1645845.734	90.56	90.78
MW-26	1177199.780	1646055.742	89.33	89.66
MW-27	1177111.548	1645982.405	91.99	92.31
MW-28	1177062.212	1645983.784	93.34	93.68
MW-29	1176929.154	1645977.674	99.80	100.18
MW-30	1176759.907	1646163.037	103.63	103.99
MW-31	1176781.892	1646086.801	101.12	101.33
MW-32	1176922.109	1645920.642	101.71	102.13
MW-33	1176915.194	1645620.848	109.18	109.38
MW-34	1176985.716	1645549.610	106.61	106.90
MW-35	1177083.421	1645536.139	104.51	104.81
MW-36	1177108.696	1645652.696	98.48	98.79
MW-37	1177284.838	1645562.127	97.70	97.94
MW-38	1177344.708	1645530.899	99.51	99.73
MW-39	1177371.964	1645590.312	94.76	95.29
MW-40	1176862.890	1645680.268	110.56	110.81
MW-41	1177174.305	1646387.271	102.10	102.41
MW-42	1177069.757	1646404.488	101.90	102.23
MW-43	1177001.997	1646427.744	101.88	102.18

DESCRIPTION	NORTHING	EASTING	TOP OF CASING	GROUND ELEVATION
PW-1	1177077.368	1645837.821	96.47	96.69
PW-2	1177077.660	1645873.860	97.44	97.87
PW-3	1177064.937	1645852.080	97.44	97.91
DW-1	1177080.272	1645882.472	97.57	97.79
DW-2	1177116.403	1645954.706	91.39	91.61
DW-3	1177174.158	1645682.490	96.37	96.58
DW-4	1177026.852	1645788.128	99.77	100.14
DW-5	1176976.766	1645922.098	99.45	99.71
DW-6	1177075.140	1646403.646	102.04	102.32
RW-1	1177080.032	1645833.501	96.29	96.49

SITE SURVEY FOR:

BUNNELL-LAMMONS ENGINEERING, INC.

TAX MAP REFERENCE:1-37-00-047.07

SPARTANBURG, SOUTH CAROLINA

280 GOODJOIN RD

CAMPOBELLO, SC

17 JANUARY 2011

REVISED 17 SEPTEMBER 2012
TO ADD WELLS MW-3R, MW-2R

I hereby state that to the best of my knowledge, information, and belief the survey shown herein was made in accordance with the requirements of the minimum standards manual for the practice of land surveying in South Carolina, and meets or exceeds the requirements for a Class B Survey as specified therein; also there are no visible encroachments or projections other than shown.

THIS SURVEY DOES NOT CONSTITUTE A TITLE SEARCH BY THE SURVEYOR.

ALL UNDERGROUND UTILITIES ARE NOT SHOWN AND THEIR LOCATIONS ARE UNKNOWN TO ME.

THIS PROPERTY IS SUBJECT TO ALL RIGHTS-OF-WAY, EASEMENTS AND RESTRICTIONS OF RECORD AND NOT OF RECORD.

THIS PLAT FOR LOCATION PURPOSES ONLY. NO LAND SURVEY WAS DONE AT THIS TIME.

SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION NO. C02524 SOUTHER LAND SURVEYING, INC.

SOUTH CAROLINA PROFESSIONAL SEAL 21232 LAND SURVEYOR GEORGE B. SOUTHER

GEORGE B. SOUTHER P.L.S. 21232

JOB NO. 02927-3

FIGURE 2

FREE-PRODUCT MEASUREMENTS
SEPTEMBER 5, 2012

WELL ID DEPTH TO	FREE-PRODUCT (FEET BTOC)	DEPTH TO GROUNDWATER (FEET BTOC)	FREE-PRODUCT THICKNESS (FEET)
MW-1	DRY	DRY	NA
MW-2	DRY	DRY	NA
MW-2R	22-27	22.60	0.33
MW-3	DRY	DRY	NA
MW-3R	19.15	19.21	0.06
MW-5	16.00	16.06	0.06
MW-6	ND	13.95	NA
MW-7	16.39	16.58	0.19
MW-8	21.27	21.80	0.53
MW-9	ND	22.63	NA
MW-11	17.75	18.00	0.25
MW-19	ND	27.30	NA
MW-28	ND	16.30	NA
MW-29	ND	22.81	NA
MW-32	24.44	25.08	0.64
RW-1	17.75	18.76	1.01
RW-2	21.03	22.29	1.26
PW-1	ND	18.15	NA
PW-2	ND	5.75	NA

BTOC = BELOW TOP OF CASING
NA = NOT APPLICABLE
ND = NOT DETECTED

LEGEND

- SURVEYED LOCATION OF SHALLOW GROUNDWATER MONITORING WELL
- SURVEYED LOCATION OF DEEP GROUNDWATER MONITORING WELL
- FREE-PRODUCT
- 1.26 FREE-PRODUCT THICKNESS (IN FEET)

60 30 0 60 120
APPROXIMATE SCALE IN FEET

REFERENCE:
DRAWING TITLED "SITE SURVEY" BY SOUTHER LAND SURVEYING, INC. DATED SEPTEMBER 17, 2012.

REVISIONS		
No.	DESCRIPTION	BY

DRAWN:	ACE	DATE:	10-08-12
CHECKED:	TJB	CAD FILE:	GEORGESOUGR-04FPTM
APPROVED:		JOB NO:	J12-7051-04

BLE INC.
BUNNELL-LAMMONS ENGINEERING, INC.
8004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615
PHONE: (864)288-1265 FAX: (864)288-4430

FREE-PRODUCT THICKNESS MAP
GEORGE SOUTHERS GROCERY
UST PERMIT #08650
280 GOODJOIN ROAD
CAMPOBELLO, SOUTH CAROLINA

FIGURE NO.
3

APPENDICES

APPENDIX A

MONITORING WELL DRILLING PROCEDURES AND BORING LOGS

APPENDIX A

MONITORING WELL CONSTRUCTION PROCEDURES

Type II Monitoring Well

Type II groundwater monitoring wells are constructed of 2-inch diameter, Schedule 40 PVC casing with flush-threaded joints installed in an 8 ½-inch diameter augered borehole. The bottom 10-foot section of each well is a manufactured well screen with 0.01-inch wide machined slots. The well screen is installed to the depth of the boring and brackets the water table.

General

In Type II wells, a washed sand filter pack was emplaced around the outside of the pipe from the bottom of the well casing to at least 2 feet above the top of the well screen. The sand filter pack was used to stabilize the formation and to help yield a less turbid groundwater sample.

A two-foot thick (minimum) bentonite seal was installed on top of the sand filter pack to seal the monitoring well at the desired level. The well annulus was then grouted to the surface with a cement/bentonite grout mixture. A lockable PVC cap and a steel, bolted manhole cover was secured over the wells.

KEY TO SOIL CLASSIFICATIONS AND CONSISTENCY DESCRIPTIONS

BUNNELL-LAMMONS ENGINEERING, INC.
GREENVILLE, SOUTH CAROLINA

Penetration Resistance* Blows per Foot	Relative Density
SANDS	
0 to 4	Very Loose
5 to 10	Loose
11 to 20	Firm
21 to 30	Very Firm
31 to 50	Dense
over 50	Very Dense

Penetration Resistance* Blows per Foot	Consistency
SILTS and CLAYS	
0 to 2	Very Soft
3 to 4	Soft
5 to 8	Firm
9 to 15	Stiff
16 to 30	Very Stiff
31 to 50	Hard
over 50	Very Hard

*ASTM D 1586

Particle Size Identification

Boulder: Greater than 300 mm
Cobble: 75 to 300 mm
Gravel:
Coarse - 19 to 75 mm
Fine - 4.75 to 19 mm
Sand:
Coarse - 2 to 4.75 mm
Medium - 0.425 to 2 mm
Fine - 0.075 to 0.425 mm
Silt & Clay: Less than 0.075 mm

KEY TO DRILLING SYMBOLS

Grab Sample

Split Spoon Sample

Undisturbed Sample

NR = No reaction to HCL

NA = Not applicable

NS = No sample

Groundwater Table at Time of Drilling

Groundwater Table 24 Hours after Completion of Drilling

KEY TO SOIL CLASSIFICATIONS

Well-graded Gravel
GW

Low Plasticity Clay
CL

Clayey Silt
MH

Silty Sand
SM

Poorly-graded Gravel
GP

Sandy Clay
CLS

Sandy Silt
MLS

Topsoil
TOPSOIL

Partially Weathered Rock
BLDRCBBL

Silty Clay
CL-ML

Sand
SW

Trash
MUCKPEAT

High Plasticity Clay
CH

Silt
ML

Clayey Sand
SC

Fill
FILL

Poorly Graded Sand
SP

Bedrock
BEDROCK

Limestone
LIMESTONE

BLE INC.

BUNNELL-LAMMONS ENGINEERING, INC.

GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

GROUNDWATER MONITORING WELL NO. MW-2R

PROJECT: George Souther's Grocery — PROJECT NO.: J12-7051-04

CLIENT: George Souther — START: 9-4-12 END: 9-4-12

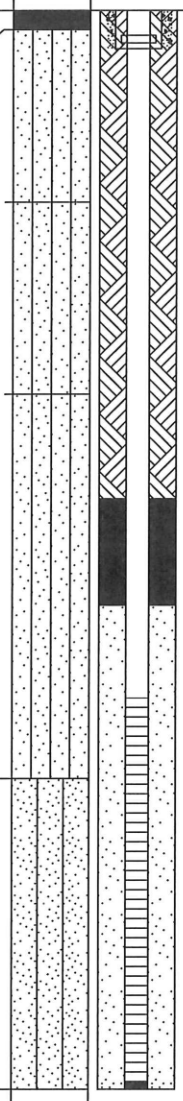
LOCATION: Campobello, South Carolina — ELEVATION: 100.30

DRILLER: Landprobe, R. Banks — LOGGED BY: S. Click

DRILLING METHOD: CME 75 Track rig; 4-1/4 inch ID hollow stem auger

DEPTH TO - WATER> INITIAL: 23.87 AFTER 24 HOURS: 22.60 CAVING>

ELEVATION/ DEPTH (FT)	DESCRIPTION	SOIL TYPE	MONITOR WELL INSTALLATION DETAILS
100	ASPHALT Dark reddish-brown, dry, slightly clayey, fine to medium sandy SILT		SURFACE COMPLETION Flush-mount below ground surface secured with an 8-inch diameter steel bolted manhole cover in a 2' x 2' concrete pad Top of PVC casing elev. = 100.05 feet
95 (5)	Dark reddish-brown, dry, clayey, fine to medium sandy SILT		Ground surface elev. = 100.30 feet Elevations are relative to an arbitrary site datum
90 (10)	Dark reddish-brown, dry, slightly clayey, fine to medium sandy SILT (slight petroleum odor)		Grout, 0 to 12.7 feet Bentonite seal, 12.7 to 15.5 feet
85 (15)			Filter pack, sand 15.5 to 28.1 feet
80 (20)	Dark brown, moist to wet, slightly micaceous, clayey, silty, medium to fine SAND (strong petroleum odor)		2-inch diameter, 0.010-inch slotted Schedule 40 PVC well screen, 17.9 to 27.9 feet
75 (25)			
	Boring terminated at 28.10 feet. Groundwater encountered at 23.87 feet at time of drilling and at 22.60 feet after 24 hours.		Pipe cap Total well depth, 28.1 feet
70 (30)			
65 (35)			



GEOT_WELLNB 7051-04.GPJ 11/8/12

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: Souther (last) George (first)
Address: 280 Goodjoin Road
City: Campobello State: SC Zip: 29322
Phone: Work:
Home:

2. LOCATION OF WELL: COUNTY: Spartanburg
Name: George Souther's Grocery
Address: 280 Goodjoin Road
City: Campobello Zip: 29322
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: UST # 08650 **PUBLIC SYSTEM NUMBER:** MW-2R

4. ABANDONMENT: No
Grouted Depth: from to ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

5. REMARKS:
Bentonite Seal: 12.7 to 15.5

6. TYPE: Mud Rotary, Jetted, Bored, Dug, Air Rotary, Driven, Cable tool, Auger (circled), Other

7. PERMIT NUMBER: UMW - 24678

8. USE: Residential, Public Supply, Process, Irrigation, Air Conditioning, Emergency, Test Well, Monitor Well (circled), Replacement

9. WELL DEPTH (completed)
28.10 ft. Date Started: 9/4/2012 Date Completed: 9/4/2012

10. CASING: Threaded (circled) Welded
Diameter: 2"
Type: PVC
0.0 in. to 17.9 ft. depth
in. to ft. depth
Height: Below
Surface: ft. Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: PVC Diameter: 2"
Slot/Gauge: 0.010 Length: 10'
Set Between: 17.9 ft. and 27.9 ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL 22.6 ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY N/A
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) Yes
Installed from: 15.5 ft. to 28.1 ft.
Effective Size: #2 Uniformity Coefficient: Sand

16. WELL GROUTED?
Neat Cement, Bentonite, Bentonite/Cement (circled), Other
Depth: 0 ft. to 12.7 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction N/A
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed: N/A
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible, Jet (shallow), Turbine, Jet (deep), Reciprocating, Centrifugal

19. WELL DRILLER: Robert Banks **CERT NO.:** 400
Address: 6004 Ponders Court, Greenville SC 29615
Level: A (B) C D (circle one)
Telephone: 864-288-1255 Fax: 864-288-4430

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: Robert Banks

Date: 9/4/12

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

BLE INC.

BUNNELL-LAMMONS ENGINEERING, INC.

GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

GROUNDWATER MONITORING WELL NO. MW-3R

PROJECT: George Souther's Grocery — PROJECT NO.: J12-7051-04

CLIENT: George Souther — START: 8-31-12 END: 8-31-12

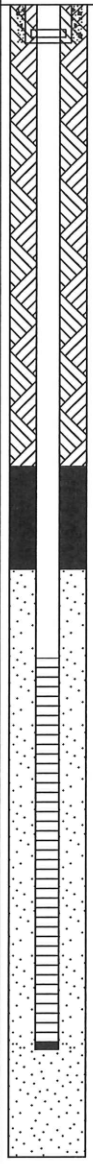
LOCATION: Campobello, South Carolina — ELEVATION: 97.10

DRILLER: Landprobe, R. Banks — LOGGED BY: R. Doherty

DRILLING METHOD: CME 75 Track rig; 4-1/4 inch ID hollow stem auger

DEPTH TO - WATER> INITIAL: 20.0 AFTER 5 HOURS: 19.21 CAVING>

ELEVATION/ DEPTH (FT)	DESCRIPTION	SOIL TYPE
	ASPHALT	
	Dark reddish-brown, dry, clayey, fine sandy SILT	
95	Dark brown, dry, clayey, silty, fine SAND	
5		
90	Reddish-orange, dry, sandy SILT	
10		
	Reddish-brown, dry, sandy SILT (strong petroleum odor)	
85		
15		
	Dark yellow, reddish-brown, moist to wet, micaceous, silty, fine SAND (strong petroleum odor)	
80		
20	Reddish-brown, wet, micaceous, silty, fine SAND (very strong petroleum odor)	
75		
25		
70		
30	Boring terminated at 30.0 feet. Groundwater encountered at 20.0 feet at time of drilling and at 19.21 feet after 5 days.	
65		
35		
60		



MONITOR WELL INSTALLATION DETAILS

SURFACE COMPLETION
Flush mount below ground surface secured with an 8-inch diameter steel bolted manhole cover in a 2' x 2' concrete pad

Top of casing elev. = 96.84 feet

Ground surface elev. = 97.10 feet

Elevations are relative to an arbitrary site datum

Grout, 0 to 12.0 feet

Bentonite seal, 12.0 to 14.7 feet

Filter pack, sand 14.7 to 30.0 feet

2-inch diameter, 0.010-inch slotted Schedule 40 PVC well screen, 17.0 to 27.0 feet

Pipe cap

Total well depth, 27.2 feet

GEOT_WELLNB 7051-04.GPJ 10/5/12

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: Souther (last) George (first)
Address: 280 Goodjoin Road
City: Campobello State: SC Zip: 29322
Phone: Work:
Home:

2. LOCATION OF WELL: COUNTY: Spartanburg
Name: George Souther's Grocery
Address: 280 Goodjoin Road
City: Campobello Zip: 29322
Latitude: Longitude:

3. PUBLIC SYSTEM NAME: UST # 08650 **PUBLIC SYSTEM NUMBER:** MW-3R

4. ABANDONMENT: No
Grouted Depth: from to ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

5. REMARKS:
Bentonite Seal:12.0 to 14.7

6. TYPE: Mud Rotary, Jetted, Bored, Dug, Air Rotary, Driven, Cable tool, Auger (circled), Other

7. PERMIT NUMBER: UMW - 24678

8. USE:
Residential, Public Supply, Process, Irrigation, Air Conditioning, Emergency, Test Well, Monitor Well (circled), Replacement

9. WELL DEPTH (completed)
27.20 ft. Date Started: 8/31/2012 Date Completed: 8/31/2012

10. CASING: Threaded (circled) Welded
Diameter: 2"
Type: PVC
0.0 in. to 17.0 ft. depth
in. to ft. depth
Height: Below
Surface: ft. Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: PVC Diameter: 2"
Slot/Gauge: 0.010 Length: 10'
Set Between: 17.0 ft. and 27.0 ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL 22.6 ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY N/A
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) Yes
Installed from: 14.7 ft. to 30.0 ft.
Effective Size: #2 Uniformity Coefficient: Sand

16. WELL GROUTED?
Neat Cement, Bentonite, Bentonite/Cement (circled), Other
Depth: 0 ft. to 14.7 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction N/A
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed: N/A
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible, Jet (shallow), Turbine
Jet (deep), Reciprocating, Centrifugal

19. WELL DRILLER: Robert Banks **CERT NO.: 400**
Address: 6004 Ponders Court, Greenville SC 29615
Level: A B (circled) C D (circle one)
Telephone: 864-288-1255 Fax: 864-288-4430

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: Robert Banks

Date: 9/4/12

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

APPENDIX B

WASTE TRANSPORTATION AND DISPOSAL RECORDS

Please Print or Type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number: George Souther
2. Page 1 of: 1
3. Emergency Response Phone: 803-937-9175
4. Waste Tracking Number: 32872

5. Generator's Name and Mailing Address: 280 Goodjoin Road, Campobello, SC 29322
864-288-1265 Ivan Irizarry
Generator's Site Address (if different than mailing address): Souther & Grooms, 280 Goodjoin Road, Campobello, SC 29322
Generator's Phone:

6. Transporter 1 Company Name: A&D Environmental Services (SC), LLC — 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 Services (NC), Inc, 2718 Uhwarrie Road, 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-HAZARDOUS NON-REGULATED MATERIAL Soil Cuttings Profile #090612GSS-SF	4	DM	2000	P	537 lbs, 433 lbs, 558 lbs, 549 lbs
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

A&D (SC) Job #12481

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: Ivan Irizarry Agent for George Southers — Signature: — Month 9 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: Chris Peter — Signature: Chris Peter — Month 9 Day 12 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

GC Labels • Printed in the USA 1-800-997-6966

DESIGNATED FACILITY TO GENERATOR

Reorder Part# MANIFEST-CHNW 913-997-6966

VLS recovery services, llc

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
2. Page 1 of
3. Emergency Response Phone
4. Waste Tracking Number: 708807 + 7368-03

5. Generator's Name and Mailing Address
RUNNELL-LAMMON ENG, INC
6004 PONDERS COURT
GREENVILLE, SC 29615
Generator's Phone: 864-288-1265

Generator's Site Address (if different than mailing address)
Berea Fuel
24 Huntsbridge Rd
Greenville SC.

6. Transporter 1 Company Name: BLE
U.S. EPA ID Number:

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

8. Designated Facility Name and Site Address
VLS RECOVERY SERVICES, LLC
305 S. MAIN STREET
MAULDIN, SC 29662
U.S. EPA ID Number: SCR000762453
Facility's Phone: 864-962-9553

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON HAZ NON REG WELL WATER #11312 Berea Fuel UST# 12397			332	9	
2.	non Haz Non Reg well water #11312 Durham Grocery Fair Play S.C. UST# 006699			745	9	
3.	non haz non reg well water #11312 George Silvo Grocery 260 Goodjoin Rd Campobello, SC UST 08600			20	9	
4.						

13. Special Handling Instructions and Additional Information

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: Robert Wilkinson
Signature:
Month 10 Day 3 Year 17

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: Robert Wilkinson
Signature:
Month 10 Day 4 Year 17

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: Steven Urban
Signature:
Month 10 Day 4 Year 17

APPENDIX C

CONTRACTOR CHECKLIST

Contractor Checklist

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

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

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

Explanation for missing and incomplete information?

D H E C
PROMOTE PROTECT PROSPER
Catherine B. Templeton, Director
Promoting and protecting the health of the public and the environment

UST DOCKETING

DEC 2 0 2012

MR GEORGE E SOUTHER
280 GOODJOIN ROAD
CAMPOBELLO SC 29322

Re: **Aggressive Fluid Vapor Recovery/Well Gauging Directive**
George Souther's Grocery (former), 280 Goodjoin Road, Campobello, SC, SC
UST Permit #08650, Cost Agreement #45020
Release reported December 31, 1991
Report of Groundwater Monitoring Well Installations received November 9, 2012
Spartanburg County

Dear Mr. Souther:

The Underground Storage Tank Management Division (UST Division) of the South Carolina of Health and Environmental Control (Agency) recognizes your commitment to continue work at this site using Bunnell-Lammons Engineering, Inc. as your contractor. Based on the results of the referenced report, the UST Division has determined the next necessary scope of work is to conduct a series of additional Aggressive Fluid Vapor Recovery (AFVR) events to remove residual free-phase petroleum product, petroleum hydrocarbon vapors, and petroleum-contact water from the subsurface.

In accordance with Section 280.64 of the South Carolina Underground Storage Tank Control Regulations, the implementation of AFVR events as outlined in the UST Quality Assurance Program Plan (QAPP), Revision 1.0 is necessary. A copy of the Agency QAPP for the UST Division is available online at http://www.scdhec.sc.gov/environment/lwm/usthome/Qapp.htm. Five AFVR events should be performed on the following well combinations: RW-2/MW-5, RW-1/MW-3R, MW-2R, MW-8/MW-32, and MW-7/MW-11. The AFVR events may be performed on consecutive days. Approximately 30 days after the last AFVR event, the following wells should be gauged: MW-1, MW-2R, MW-3R, MW-5 through MW-9, MW-11, MW-19, MW-27 through MW-32, RW-1, RW-2, PW-1 through PW-3, and DW-1 through DW-5.

Cost Agreement #45020 has been approved in the amount shown on the enclosed cost agreement form for the aforementioned scope of work. The work may proceed immediately upon your receipt of this letter.

The AFVR/Well Gauging Report should be submitted within ninety (90) days from the date of this letter. 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.

Bunnell-Lammons Engineering, Inc. may submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Interim invoices may be submitted for this scope of work. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. If the invoice is not submitted within one hundred twenty (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 UST 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 UST Division 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 UST Division grants pre-approval for transportation of up to 5,000 gallons of free-phase product and petroleum-contaminated groundwater from the referenced facility to a permitted treatment facility for disposal. The transport and disposal must be conducted in accordance with the QAPP.

On all correspondence concerning this directive, please reference **UST Permit #08650 and Cost Agreement #45020.** If you have any questions concerning this project, please contact me by telephone at (803) 896-4078 or by e-mail to RiversMS@dhec.sc.gov.

Sincerely,

Michael Rivers

Michael Rivers, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Mr. Trevor Benton, P.G., Bunnell-Lammons Engineering, Inc., 6004 Ponders Court, Greenville, SC 29615 (w/ enc.)
Technical File (w/ enc.)

MR/AFVRDIR12.10.12

Approved Cost Agreement 45020

Facility: 08650 GEORGE SOUTHER'S GROCERY
RIVERSMS
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB						
		A	EQUIPMENT	5.0000	575.00	2,875.00
		B	PERSONNEL	6.0000	290.00	1,740.00
10 SAMPLE COLLECTION						
		E	GAUGE WELL ONLY	26.0000	20.00	520.00
17 DISPOSAL						
		A	WASTEWATER	5,000.0000	0.80	4,000.00
19 RPT/PROJECT MNGT & COORDINATIO						
		PCT	PERCENT	0.1500	25,535.00	3,830.25
23 EFR						
		A	8 HOUR EVENT	5.0000	3,000.00	15,000.00
		C	OFF GAS TREATMENT	40.0000	35.00	1,400.00
				Total Amount		29,365.25

BUNNELL-LAMMONS ENGINEERING, INC.

GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

REPORT OF AGGRESSIVE FLUID VAPOR RECOVERY EVENTS AND MONITORING WELL GAUGING

George Souther's Grocery
280 Goodjoin Road
Campobello, South Carolina
UST Permit #08650; Cost Agreement #45020

Prepared For:

Mr. George Souther
280 Goodjoin Road
Campobello, South Carolina 29322

Prepared By:

Bunnell-Lammons Engineering, Inc.
6004 Ponders Court
Greenville, South Carolina 29615
SCDHEC Certified Contractor No. UCC-0010

April 19, 2013

BLE Project Number J13-7051-05

BUNNELL-LAMMONS ENGINEERING, INC.
GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

March 27, 2013

South Carolina Department of Health and Environmental Control
Bureau of Underground Storage Tank Management
2600 Bull St.
Columbia, SC 29201-1708

Attention: Mr. Mike Rivers
Hydrogeologist

Subject: **Report of Aggressive Fluid Vapor Recovery Events and Monitoring Well Gauging**
George Souther's Grocery
280 Goodjoin Road
Campobello, Spartanburg County, South Carolina
UST Permit #08650; CA #45020
BLE Project No. J13-7051-05

Dear Mr. Rivers:

On behalf of Mr. George Souther, Bunnell-Lammons Engineering, Inc. (BLE) has completed a series of five Aggressive Fluid Vapor Recovery (AFVR) events at the subject site. This scope of work was performed in response to South Carolina Department of Health and Environmental Control's (SCDHEC) directive, dated December 20, 2012. The results of our activities are provided herein. Please feel free to contact us if you have any questions concerning this report.

Sincerely,

BUNNELL-LAMMONS ENGINEERING, INC.

Trevor J. Benton, P.G.
Project Hydrogeologist
Registered, South Carolina No. 2395

Thomas L. Lammons, P.G
Principal Hydrogeologist
Registered, South Carolina No. 893

cc: Mr. George Souther, 280 Goodjoin Road, Campobello, SC 29322

6004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615

PHONE (864) 288-1265
FAX (864) 288-4430

PROJECT INFORMATION

The subject property is located at the intersection of Goodjoin Road and Mt. Lebanon Road in Campobello, South Carolina (Figure 1). The site currently operates as a petroleum retail facility and convenience store. Structures on the property consist of a convenience store/office building, a canopy, fuel dispenser islands, and four active underground storage tanks registered under UST Permit #14391. Adjacent parcels primarily consist of residential properties and woodlands.

In December 1991, one 550-gallon kerosene UST, one 3,000-gallon diesel UST, one 4,000-gallon gasoline UST, and three 3,000-gallon gasoline USTs were abandoned by removal (under prior UST permit #08650). The tanks were replaced by one 2,000-gallon kerosene UST, one 2,000-gallon diesel UST, one 6,000-gallon gasoline UST, and one 10,000-gallon gasoline UST (under new UST permit #14391) and are currently in operation today. In response to a release of petroleum contaminants detected during the UST closure, 55 groundwater monitoring/recovery wells have been installed to assess the horizontal and vertical extent of petroleum hydrocarbons in the water table aquifer. Additionally, free-phase petroleum product has been detected in several monitoring and recovery wells at the facility over the years; including in a former water supply well converted to recovery well (RW-2), which is located in the crawl space of the store. RW-2 has been plumbed to the exterior of the facility, where free-product removal can be conducted via aggressive fluid vapor recovery (AFVR).

As free-product continues to be present at the subject facility, the SCDHEC has required (directive letter dated December 20, 2012) the performance of five 8-hour AFVR events on monitoring well clusters RW-2 and MW-5 (event 1), RW-1 and MW-3R (event 2), MW-7 and MW-11 (event 3), MW-8 and MW-32 (event 4), and MW-2R (event 5) to remove free-phase product and dissolved-phase CoCs. This report documents our activities.

AGGRESSIVE FLUID VAPOR RECOVERY EVENTS

On January 8, January 9, January 15, January 16, and February 7, 2013, BLE personnel mobilized to the site to perform AFVR events on existing well clusters RW-2 and MW-5 (event 1), RW-1 and

MW-3R (event 2), MW-7 and MW-11 (event 3), MW-8 and MW-32 (event 4), and MW-2R (event 5). A hydrogeologist from BLE was on site for observation and monitoring during each event. The AFVR events were performed by Landprobe Drilling Services (Landprobe) of Greenville, South Carolina. A site and well location plan is shown as Figure 2. The results of each AFVR event are provided below.

AGGRESSIVE FLUID VAPOR RECOVERY EVENT #1 – JANUARY 8, 2013

On January 8, 2013, the first 8-hour AFVR event was conducted in monitoring/recovery wells MW-5 and RW-2. Prior to initiating the event, BLE personnel gauged the wells using a Solinst® Interface Meter Model 122. Approximately 0.29-feet and 1.92-feet of free-product was detected in wells MW-5 and RW-2, respectively (Figure 2). Additionally, the initial depth to free-product and/or groundwater readings in adjacent source area monitoring wells MW-9 and MW-28 were measured (feet below top of PVC casing (btoc)) and recorded on Table 1.

The AFVR event was initiated at 1000 and concluded at 1800. The general weather conditions observed during this period of time were overcast; winds varied between 0 to 6 miles per hour (mph) with an ambient temperature between 43° and 51° Fahrenheit. Throughout the duration of the AFVR event, a continuous vacuum of 22.5 inches of mercury was applied to MW-5 and RW-2. In addition to collecting vacuum readings, the depth to free-product / groundwater (feet btoc) was measured every 30 minutes in MW-9 and MW-28 to evaluate drawdown. Gauging data observed during the event is shown in Table 1.

Due to the close proximity of the site to a populated area, volatile air emissions were treated on-site by Landprobe personnel utilizing a granular activated carbon (GAC) unit. Influent and effluent vapor concentrations along with the off-gas stack temperature, relative humidity, and airflow velocity were measured every 30 minutes throughout the event using a MiniRae® 2000 Photo Ionization Detector (PID) and an Extech 45160 Thermo-Hygro-Anemometer. The observed off gas vapor concentrations are shown in Table 1A.

At the completion of the AFVR event, a total volume of 310 gallons of petroleum impacted groundwater was determined to have been recovered from the site. Of this volume, approximately 8.5 gallons of free-phase product was measured in the holding tanks at the end of the AFVR event. Please note that petroleum product losses may occur through emulsification with groundwater and volatilization during an AFVR event. Additionally, the liquids may not have had sufficient time to separate in order to obtain an accurate free-product thickness. Waste transportation and disposal records for the petroleum impacted groundwater recovered during the AFVR event are provided in Appendix A.

A total of approximately 1.63 pounds of gasoline vapor which is equivalent to approximately 0.26 gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR emissions calculations for this event are provided as Table 1A.

Following the conclusion of the event, approximately 0.01-feet of free-product was measured in MW-5 and 1.00-feet of free-product was measured in RW-2. Total free-product/groundwater level changes for this event are shown in Table 1.

AGGRESSIVE FLUID VAPOR RECOVERY EVENT #2 – JANUARY 9, 2013

On December 26, 2012, the second 8-hour AFVR event was conducted in monitoring/recovery wells MW-3R and RW-1. Prior to initiating the event, BLE personnel gauged the wells using a Solinst® Interface Meter Model 122. Approximately 0.85-feet and 0.91-feet of free-product was detected in the wells, respectively (Figure 2). Additionally, the initial depth to free-product and/or groundwater readings in adjacent source area monitoring wells MW-1 and DW-1 were measured (feet btoc) and recorded on Table 2.

The AFVR event was initiated at 0730 and concluded at 1530. The general weather conditions observed during this period of time were clear to overcast; winds varied between 0 to 5 mph with an ambient temperature between 48º and 64º Fahrenheit. Throughout the duration of the AFVR event, a continuous vacuum ranging between 23 and 24 inches of mercury was applied to MW-3R and RW-1. In addition to collecting vacuum readings, the depth to free-product / groundwater (feet btoc)

was measured every 30 minutes in wells MW-1 and DW-1 to evaluate drawdown. Gauging data observed during the event is shown in Table 2.

Due to the close proximity of the site to a populated area, volatile air emissions were treated on-site by Landprobe personnel utilizing a GAC unit. Influent and effluent vapor concentrations along with the off-gas stack temperature, relative humidity, and airflow velocity were measured every 30 minutes throughout the event using a MiniRae® 2000 PID and an Extech 45160 Thermo-Hygro-Anemometer. The observed off gas vapor concentrations are shown in Table 2A.

At the completion of the AFVR event, a total volume of 590 gallons of petroleum impacted groundwater was determined to have been recovered from the site. Of this volume, approximately 1.25 gallons of free-phase product was measured in the holding tanks at the end of the AFVR event. Please note that petroleum product losses may occur through emulsification with groundwater and volatilization during an AFVR event. Additionally, the liquids may not have had sufficient time to separate in order to obtain an accurate free-product thickness. Waste transportation and disposal records for the petroleum impacted groundwater recovered during the AFVR event are provided in Appendix A.

A total of approximately 1.04 pounds of gasoline vapor which is equivalent to approximately 0.17 gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR emissions calculations for this event are provided as Table 2A.

Following the conclusion of the event, approximately 0.01-feet (MW-3R) and 0.03-feet (RW-1) of free-product was detected. Total free-product/groundwater level changes for this event are shown in Table 2.

AGGRESSIVE FLUID VAPOR RECOVERY EVENT #3 – JANUARY 15, 2013

On January 15, 2013, the third 8-hour AFVR event was conducted in monitoring wells MW-7 and MW-11. Prior to initiating the event, BLE personnel gauged the monitoring wells using a Solinst® Interface Meter Model 122. Approximately 0.09-feet and 0.02-feet of free-product was detected in

the wells, respectively (Figure 2). Additionally, the initial depth to free-product and/or groundwater readings in adjacent source area monitoring wells MW-6 and DW-3 were measured (feet btoc) and recorded on Table 3.

The AFVR event was initiated at 0830 and concluded at 1630. The general weather conditions observed during this period of time were overcast with periods of light rain; winds varied between 7 and 12 mph with an ambient temperature between 49º and 54º Fahrenheit. Throughout the duration of the AFVR event, a continuous vacuum ranging from 24.5 and 25 inches of mercury was applied to MW-7 and MW-11. In addition to collecting vacuum readings, the depth to free-product / groundwater (feet btoc) was measured every 30 minutes in wells MW-6 and DW-3 to evaluate drawdown. Gauging data observed during the event is shown in Table 3.

Due to the close proximity of the site to a populated area, volatile air emissions were treated on-site by Landprobe personnel utilizing a GAC unit. Influent and effluent vapor concentrations along with the off-gas stack temperature, relative humidity, and airflow velocity were measured every 30 minutes throughout the event using a MiniRae® 2000 PID and an Extech 45160 Thermo-Hygro-Anemometer. The observed off gas vapor concentrations are shown in Table 3A.

At the completion of the AFVR event, a total volume of 490 gallons of petroleum impacted groundwater was determined to have been recovered from the site. No free-phase product was measured in the holding tanks at the end of the AFVR event. Please note that petroleum product losses may occur through emulsification with groundwater and volatilization during an AFVR event. Additionally, the liquids may not have had sufficient time to separate in order to obtain an accurate free-product thickness. Waste transportation and disposal records for the petroleum impacted groundwater recovered during the AFVR event are provided in Appendix A.

A total of approximately 0.91 pounds of gasoline vapor which is equivalent to approximately 0.15 gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR emissions calculations for this event are provided as Table 3A.

Following the conclusion of the event, approximately 0.01-feet of free-product was detected in monitoring wells MW-7 and MW-11. Total free-product/groundwater level changes for this event are shown in Table 3.

AGGRESSIVE FLUID VAPOR RECOVERY EVENT #4 – JANUARY 16, 2013

On January 16, 2013, the fourth 8-hour AFVR event was conducted in monitoring wells MW-8 and MW-32. Prior to initiating the event, BLE personnel gauged the monitoring wells using a Solinst® Interface Meter Model 122. Approximately 1.05-feet and 1.44-feet of free-product was detected in the wells, respectively (Figure 2). Additionally, the initial depth to free-product and/or groundwater readings in adjacent source area monitoring wells MW-19 and DW-4 were measured (feet btoc) and recorded on Table 4.

The AFVR event was initiated at 0930 and concluded at 1730. The general weather conditions observed during this period of time were overcast with periods of rain; winds varied between 0 and 7 mph with an ambient temperature between 45° and 51° Fahrenheit. Throughout the duration of the AFVR event, a continuous vacuum of 19 inches of mercury was applied to MW-8 and MW-32. In addition to collecting vacuum readings, the depth to free-product / groundwater (feet btoc) was measured every 30 minutes in wells MW-19 and DW-4 to evaluate drawdown. Gauging data observed during the event is shown in Table 4.

Due to the close proximity of the site to a populated area, volatile air emissions were treated on-site by Landprobe personnel utilizing a GAC unit. Influent and effluent vapor concentrations along with the off-gas stack temperature, relative humidity, and airflow velocity were measured every 30 minutes throughout the event using a MiniRae® 2000 PID and an Extech 45160 Thermo-Hygro-Anemometer. The observed off gas vapor concentrations are shown in Table 4A.

At the completion of the AFVR event, a total volume of 140 gallons of petroleum impacted groundwater was determined to have been recovered from the site. Of this volume, approximately 1.25-gallons of free-phase product was measured in the holding tanks at the end of the AFVR event. Please note that petroleum product losses may occur through emulsification with groundwater and

volatilization during an AFVR event. Additionally, the liquids may not have had sufficient time to separate in order to obtain an accurate free-product thickness. Waste transportation and disposal records for the petroleum impacted groundwater recovered during the AFVR event are provided in Appendix A.

A total of approximately 2.74 pounds of gasoline vapor which is equivalent to approximately 0.44 gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR emissions calculations for this event are provided as Table 4A.

Following the conclusion of the event, approximately 0.01-feet of free-product was detected in monitoring wells MW-8 and MW-32. Total free-product/groundwater level changes for this event are shown in Table 4.

AGGRESSIVE FLUID VAPOR RECOVERY EVENT #5 – FEBRUARY 7, 2013

On February 7, 2013, the fifth 8-hour AFVR event was conducted in monitoring well MW-2R. Prior to initiating the event, BLE personnel gauged monitoring well MW-2 using a Solinst® Interface Meter Model 122. Approximately 0.58-feet of free-product was detected in the well (Figure 2). Additionally, the initial depth to free-product and/or groundwater readings in adjacent source area monitoring wells MW-9 and DW-5 were measured (feet btoc) and recorded on Table 5. Please note that approximately 0.33-feet of free-product was detected in monitoring well MW-9 prior to initiating the AFVR event.

The AFVR event was initiated at 0800 and concluded at 1600. The general weather conditions observed during this period of time were overcast with periods of light rain; winds varied between 10 and 16 mph with an ambient temperature between 41° and 46° Fahrenheit. Throughout the duration of the AFVR event, a continuous vacuum ranging from 22.5 to 25 inches of mercury was applied to MW-2R. In addition to collecting vacuum readings, the depth to free-product / groundwater (feet btoc) was measured every 30 minutes in wells MW-9 and DW-5 to evaluate drawdown. Gauging data observed during the event is shown in Table 5.

At the completion of the AFVR event, a total volume of 419 gallons of petroleum impacted groundwater was determined to have been recovered from the site. No free-phase product was measured in the holding tanks at the end of the AFVR event. Please note that petroleum product losses may occur through emulsification with groundwater and volatilization during an AFVR event. Additionally, the liquids may not have had sufficient time to separate in order to obtain an accurate free-product thickness. Waste transportation and disposal records for the petroleum impacted groundwater recovered during the AFVR event are provided in Appendix A.

A total of approximately 0.70 pounds of gasoline vapor which is equivalent to approximately 0.11 gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR emissions calculations for this event are provided as Table 5A.

Following the conclusion of the event, no free-product was detected in MW-2R; however, approximately 0.03-feet of free-product was detected in monitoring well MW-9. Total free-product/groundwater level changes for this event are shown in Table 5.

MONITORING WELL GAUGING

As required by the SCDHEC, BLE personnel remobilized to the site on March 28, 2013 to gauge monitoring/recovery wells MW-1, MW-2R, MW-3R, MW-5 through MW-9, MW-19, MW-27 through MW-32, RW-1, RW-2, PW-1 through PW-3, and DW-1 through DW-5 for free product.

Approximately 0.02-feet (MW-2R), 0.03-feet (MW-5), 0.03-feet (MW-7), 0.21-feet (MW-8), 0.54-feet (MW-32), and 1.09-feet (RW-2) of free-product was detected in the wells. No free product was observed in the remaining wells that were gauged (MW-1, MW-3R, MW-6, MW-9, MW-11, MW-19, MW-27, MW-28, MW-29, MW-31, RW-1, PW-1, and DW-1 through DW-5). Monitoring wells MW-20, PW-2, and PW-3 were dry at the time of our gauging event. Post AFVR free-product measurements are shown in tabular format in Table 6.

CONCLUSIONS AND RECOMMENDATIONS

A combined total volume of 1,949-gallons of petroleum impacted groundwater was recovered during this current scope of work. Of this total, approximately 12 gallons of petroleum product (liquid and vapor phase) were calculated to have been recovered.

The AFVR events conducted during the current scope of work have been successful at reducing free-product thicknesses in the monitoring wells. Therefore, we recommend an additional series of five eight-hour AFVR events be conducted to 1) remove residual free-phase product from the area around the extraction points, 2) remove petroleum hydrocarbon vapors from the unsaturated zone, and 3) remove petroleum impacted groundwater (mass) from the subsurface. We recommend performing the additional AFVRs in the following well combinations on consecutive days:

- RW-2 and MW-5
- MW-2R and MW-9
- MW-8 and MW-32
- RW-1
- MW-7

Approximately 30 days after completion of the final AFVR event, we recommend a comprehensive groundwater sampling event be conducted to evaluate contaminant concentration trends. According to our records, site-wide groundwater sampling has not been conducted at the facility since December 2010.

QUALIFICATION OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessments of this type. Our evaluation of site conditions has been based on our understanding of the site and project information and the data obtained in our exploration.

This report has been prepared on behalf of and exclusively for the use of Mr. George Souther. This report and the findings contained herein shall not, in whole or in part, be used or relied upon by any other party without BLE's prior written consent. Any unauthorized use or distribution of BLE's work shall be at third parties risk and without liability to BLE.

TABLES

TABLE 1

AFVR Gauging Data - January 8, 2013
George Souther's Grocery
Campobello, South Carolina
SCDHEC UST Permit #08650; Cost Agreement #45020
BLE Project Number J13-7051-05

	Monitoring Well Gauging Data						Air Emissions	
	Vacuum (in. of Hg)		Depth to Free-Product / Water (feet BTOC)				Influent (ppm)	Effluent (ppm)
Time	MW-5	RW-2	MW-5	MW-9	MW-28	RW-2		
1000	22.5	22.5	16.79 / 17.08	23.43	17.40	22.41 / 24.33	553	4.3
1030	22.5	22.5	AFVR EVENT	23.42	17.42	AFVR EVENT	625	5.9
1100	22.5	22.5		23.42	17.45		674	0.0
1130	22.5	22.5		23.42	17.46		729	8.5
1200	22.5	22.5		23.42	17.48		742	7.1
1230	22.5	22.5		23.42	17.48		682	14.5
1300	22.5	22.5		23.42	17.48		707	38.0
1330	22.5	22.5		23.42	17.48		709	48.0
1400	22.5	22.5		23.42	17.48		706	50.7
1430	22.5	22.5		23.42	17.48		715	52.3
1500	22.5	22.5		23.42	17.49		712	56.4
1530	22.5	22.5		23.42	17.51		713	55.0
1600	22.5	22.5		23.42	17.52		720	58.4
1630	22.5	22.5		23.42	17.52		710	61.1
1700	22.5	22.5		23.42	17.52		715	59.6
1730	22.5	22.5		23.42	17.52		703	62.3
1800	22.5	22.5	17.92 / 17.93	23.42	17.52	22.69 / 23.69	712	61.1
		Initial Free Product (feet)	**0.29**	NFP	NFP	**1.92**		
		Final Free Product (feet)	**0.01**	NFP	NFP	**1.00**		

NOTES:
AFVR event performed on January 8, 2013.
0.29-feet and 1.92-feet of free-product was detected in MW-5 and RW-2, respectively prior to initiating the AFVR event.
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
in. of Hg - inches of mercury
BTOC - below top of casing
ppm - parts per million
NFP - No Free Product

Prepared By: DRM
Checked By : IAI

TABLE 1A

AFVR Emissions Field Data - January 8, 2013
George Souther's Grocery
Campobello, South Carolina
SCDHEC UST Permit #08650; Cost Agreement #45020
BLE Project Number J13-7051-05

WELL ID #: MW-5 & RW-2

AFVR FIELD MEASUREMENTS									EMISSION CALCULATIONS								
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	$PPM_{measured}$ (ppm)	Elapsed Time (hr:min)	Q_{std} (DSCFM)	PPM_d	PPM_c	K	C_{cm} (mg/dsm3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	PMR_g (gal/hr)
1/8/2013	1000	23.5	741	3	94	89.1	553	0:00	32.54	589.14	2,356.55	4	1,175.83	7.34E-05	0.14	0.17	0.03
1/8/2013	1030	23.5	663	3	96	88.7	625	0:30	29.01	665.84	2,663.36	4	1,328.92	8.30E-05	0.14	0.17	0.03
1/8/2013	1100	23.5	701	3	98	90.9	674	1:00	30.56	718.04	2,872.17	4	1,433.10	8.95E-05	0.16	0.19	0.03
1/8/2013	1130	23.5	604	3	92	87.0	729	1:30	26.62	776.64	3,106.55	4	1,550.05	9.68E-05	0.15	0.18	0.03
1/8/2013	1200	23.5	596	3	94	89.9	742	2:00	26.17	790.49	3,161.95	4	1,577.69	9.85E-05	0.15	0.18	0.03
1/8/2013	1230	23.5	721	3	98	88.6	682	2:30	31.44	726.57	2,906.26	4	1,450.11	9.05E-05	0.17	0.20	0.03
1/8/2013	1300	23.5	741	3	98	87.1	707	3:00	32.31	753.20	3,012.80	4	1,503.27	9.38E-05	0.18	0.21	0.03
1/8/2013	1330	23.5	838	3	98	88.2	709	3:30	36.54	755.33	3,021.32	4	1,507.52	9.41E-05	0.21	0.24	0.04
1/8/2013	1400	23.5	775	3	96	86.7	706	4:00	33.91	752.13	3,008.54	4	1,501.14	9.37E-05	0.19	0.22	0.04
1/8/2013	1430	23.5	741	3	96	88.2	715	4:30	32.42	761.72	3,046.89	4	1,520.28	9.49E-05	0.18	0.21	0.03
1/8/2013	1500	23.5	721	3	98	86.9	712	5:00	31.44	758.53	3,034.11	4	1,513.90	9.45E-05	0.18	0.21	0.03
1/8/2013	1530	23.5	741	3	98	89.3	713	5:30	32.31	759.59	3,038.37	4	1,516.03	9.46E-05	0.18	0.21	0.03
1/8/2013	1600	23.5	859	3	112	89.4	720	6:00	36.54	767.05	3,068.20	4	1,530.91	9.56E-05	0.21	0.24	0.04
1/8/2013	1630	23.5	779	3	104	91.5	710	6:30	33.60	756.40	3,025.58	4	1,509.65	9.42E-05	0.19	0.22	0.04
1/8/2013	1700	23.5	760	3	100	87.7	715	7:00	33.02	761.72	3,046.89	4	1,520.28	9.49E-05	0.19	0.22	0.03
1/8/2013	1730	23.5	737	3	100	88.9	703	7:30	32.02	748.94	2,995.75	4	1,494.76	9.33E-05	0.18	0.21	0.03
1/8/2013	1800	23.5	701	3	100	86.9	712	8:00	30.45	758.53	3,034.11	4	1,513.90	9.45E-05	0.17	0.20	0.03
Average Values		23.5	731	3	98.4	88.5	696		31.82	741.17	2,964.67	4	1,479.26	9.23E-05	0.18	0.20	0.03

B_{ws}	0.061	B_{wsw}	0.037

Total Pounds of Carbon Recovered as Emissions: 1.41

Total Pounds of Gasoline Recovered as Emissions: 1.63

Total Gallons of Gasoline Recovered as Emissions: 0.26

NOTES:

AFVR event performed on January 8, 2013.
Vacuum applied to monitoring well MW-5 and RW-2.
0.29-feet and 1.92-feet of free-product was detected in MW-5 and RW-2, respectively prior to initiating the AFVR event.
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
in. of Hg - inches of mercury
ppm - parts per million
Q_{std} - flow at DSCFM
DSCFM - Dry Standard Cubic Feet per Minute
PPM_d - "dry" concentration

PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP
K - number of carbons in calibration gas
C_{cm} - mass concentration of VOC emissions as carbon
PMR_c - pollutant mass removal of VOCs as carbon
PMR_g - pollutant mass removal of VOCs as gasoline
B_{wsw} - lb of water per lb of dry air
B_{ws} - water vapor % by volume
Calculations have been derived from published guidance

Prepared By: DRM
Checked By : IAI

TABLE 2

AFVR Gauging Data - January 9, 2013
George Souther's Grocery
Campobello, South Carolina
SCDHEC UST Permit #08650; Cost Agreement #45020
BLE Project Number J13-7051-05

	Monitoring Well Gauging Data						Air Emissions	
	Vacuum (in. of Hg)		Depth to Free-Product / Water (feet BTOC)				Influent (ppm)	Effluent (ppm)
Time	MW-3R	RW-1	MW-1	DW-1	MW-3R	RW-1		
0730	24.0	23.0	16.32	20.72	20.04 / 20.89	19.10 / 20.01	302	31.6
0800	24.0	23.0	16.32	20.76	AFVR EVENT	AFVR EVENT	388	54.9
0830	24.0	23.0	16.32	20.80			440	54.5
0900	24.0	23.0	16.32	20.80			460	31.8
0930	24.0	23.0	16.32	20.81			548	57.8
1000	24.0	23.0	16.32	20.90			562	59.7
1030	24.0	23.0	16.32	20.97			577	35.1
1100	24.0	23.0	16.32	20.98			530	35.7
1130	24.0	23.0	16.32	21.00			548	36.8
1200	24.0	23.0	16.32	21.00			599	38.0
1230	24.0	23.0	16.32	21.01			614	43.9
1300	24.0	23.0	16.32	21.01			632	53.2
1330	24.0	23.0	16.32	21.01			701	49.7
1400	24.0	23.0	16.32	21.01			630	45.5
1430	24.0	23.0	16.32	21.01			671	47.6
1500	24.0	23.0	16.32	21.01			666	49.9
1530	24.0	23.0	16.32	21.01	22.04 / 22.05	22.82 / 22.85	601	51.3
		Initial Free Product (feet)	NFP	NFP	**0.85**	**0.91**		
		Final Free Product (feet)	NFP	NFP	**0.01**	**0.03**		

NOTES:
AFVR event performed on January 9, 2013.
0.85-feet and 0.91-feet of free-product was detected in MW-3R and RW-1, respectively prior to initiating the AFVR event.
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
in. of Hg - inches of mercury
BTOC - below top of casing
ppm - parts per million
NFP - No Free Product

Prepared By: DRM
Checked By : IAI

TABLE 2A

AFVR Emissions Field Data - January 9, 2013
George Souther's Grocery
Campobello, South Carolina
SCDHEC UST Permit #08650; Cost Agreement #45020
BLE Project Number J13-7051-05

WELL ID #: MW-3R & RW-1

AFVR FIELD MEASUREMENTS									EMISSION CALCULATIONS								
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	$PPM_{measured}$ (ppm)	Elapsed Time (hr:min)	Q_{std} (DSCFM)	PPM_d	PPM_c	K	C_{cm} (mg/dsm3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	PMR_g (gal/hr)
1/9/2013	0730	25.0	429	3	70	81.0	302	0:00	19.59	323.45	1,293.79	4	645.55	4.03E-05	0.05	0.05	0.01
1/9/2013	0800	25.0	546	3	110	89.2	388	0:30	23.18	415.56	1,662.22	4	829.39	5.18E-05	0.07	0.08	0.01
1/9/2013	0830	25.0	546	3	100	88.7	440	1:00	23.59	471.25	1,885.00	4	940.54	5.87E-05	0.08	0.10	0.02
1/9/2013	0900	25.0	447	3	100	90.5	460	1:30	19.32	492.67	1,970.68	4	983.29	6.14E-05	0.07	0.08	0.01
1/9/2013	0930	25.0	528	3	100	87.0	548	2:00	22.82	586.92	2,347.68	4	1,171.40	7.31E-05	0.10	0.12	0.02
1/9/2013	1000	25.0	566	3	100	88.2	562	2:30	24.46	601.91	2,407.65	4	1,201.33	7.50E-05	0.11	0.13	0.02
1/9/2013	1030	25.0	656	3	100	89.7	577	3:00	28.35	617.98	2,471.92	4	1,233.39	7.70E-05	0.13	0.15	0.02
1/9/2013	1100	25.0	584	3	100	87.0	530	3:30	25.24	567.64	2,270.56	4	1,132.92	7.07E-05	0.11	0.12	0.02
1/9/2013	1130	25.0	597	3	100	88.6	548	4:00	25.80	586.92	2,347.68	4	1,171.40	7.31E-05	0.11	0.13	0.02
1/9/2013	1200	25.0	600	3	100	90.7	599	4:30	25.93	641.54	2,566.17	4	1,280.42	7.99E-05	0.12	0.14	0.02
1/9/2013	1230	25.0	623	3	104	88.3	614	5:00	26.73	657.61	2,630.43	4	1,312.48	8.19E-05	0.13	0.15	0.02
1/9/2013	1300	25.0	627	3	104	87.4	632	5:30	26.90	676.88	2,707.54	4	1,350.96	8.43E-05	0.14	0.16	0.03
1/9/2013	1330	25.0	630	3	104	88.2	701	6:00	27.03	750.79	3,003.14	4	1,498.45	9.35E-05	0.15	0.18	0.03
1/9/2013	1400	25.0	604	3	104	88.7	630	6:30	25.92	674.74	2,698.97	4	1,346.68	8.41E-05	0.13	0.15	0.02
1/9/2013	1430	25.0	677	3	104	89.9	671	7:00	29.05	718.65	2,874.62	4	1,434.32	8.95E-05	0.16	0.18	0.03
1/9/2013	1500	25.0	680	3	102	88.1	666	7:30	29.28	713.30	2,853.20	4	1,423.64	8.89E-05	0.16	0.18	0.03
1/9/2013	1530	25.0	620	3	102	89.9	601	8:00	26.70	643.68	2,574.73	4	1,284.69	8.02E-05	0.13	0.15	0.02
Average Values		25.0	586	3	100	88.3	557		25.29	596.56	2,386.23	4	1,190.64	7.43E-05	0.11	0.13	0.02
B_{ws}	0.066	B_{wsw}	0.04														

Total Pounds of Carbon Recovered as Emissions: 0.90

Total Pounds of Gasoline Recovered as Emissions: 1.04

Total Gallons of Gasoline Recovered as Emissions: 0.17

NOTES:

AFVR event performed on January 9, 2013.
Vacuum applied to monitoring well MW-3R and RW-1.
0.85-feet and 0.91-feet of free-product was detected in MW-3R and RW-1, respectively prior to initiating the AFVR event.
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
in. of Hg - inches of mercury
ppm - parts per million
Q_{std} - flow at DSCFM
DSCFM - Dry Standard Cubic Feet per Minute
PPM_d - "dry" concentration

PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP
K - number of carbons in calibration gas
C_{cm} - mass concentration of VOC emissions as carbon
PMR_c - pollutant mass removal of VOCs as carbon
PMR_g - pollutant mass removal of VOCs as gasoline
B_{wsw} - lb of water per lb of dry air
B_{ws} - water vapor % by volume
Calculations have been derived from published guidance

Prepared By: DRM
Checked By : IAI

TABLE 3

AFVR Gauging Data - January 15, 2013
George Souther's Grocery
Campobello, South Carolina
SCDHEC UST Permit #08650; Cost Agreement #45020
BLE Project Number J13-7051-05

	Monitoring Well Gauging Data						Air Emissions	
	Vacuum (in. of Hg)		Depth to Free-Product / Water (feet BTOC)				Influent (ppm)	Effluent (ppm)
Time	MW-7	MW-11	MW-6	MW-7	MW-11	DW-3		
0830	25.0	24.5	12.76	17.60 / 17.69	15.55 / 15.57	18.50	474	49.6
0900	25.0	24.5	12.76	AFVR EVENT	AFVR EVENT	18.60	499	30.0
0930	25.0	24.5	12.75			18.70	477	32.5
1000	25.0	24.5	12.75			18.70	561	35.0
1030	25.0	24.5	12.75			18.70	559	33.5
1100	25.0	24.5	12.75			18.70	549	41.0
1130	25.0	24.5	12.75			18.70	650	35.3
1200	25.0	24.5	12.72			18.70	644	37.3
1230	25.0	24.5	12.70			18.70	659	37.2
1300	25.0	24.5	12.65			18.70	679	30.6
1330	25.0	24.5	12.60			18.70	669	53.8
1400	25.0	24.5	12.58			18.70	675	33.4
1430	25.0	24.5	12.57			18.70	666	34.9
1500	25.0	24.5	12.56			18.70	680	32.6
1530	25.0	24.5	12.55			18.70	701	39.2
1600	25.0	24.5	12.58			18.70	686	38.4
1630	25.0	24.5	12.60	18.39 / 18.40	19.69 / 19.70	18.70	650	43.8
		Initial Free Product (feet)	NFP	**0.09**	**0.02**	NFP		
		Final Free Product (feet)	NFP	**0.01**	**0.01**	NFP		

NOTES:
AFVR event performed on January 15, 2013.
0.09-feet and 0.02-feet of free-product was detected in MW-7 and MW-11, respectively prior to initiating the AFVR event.
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
in. of Hg - inches of mercury
BTOC - below top of casing
ppm - parts per million
NFP - No Free Product

Prepared By: DRM
Checked By : IAI

TABLE 3A

AFVR Emissions Field Data - January 15, 2013
George Souther's Grocery
Campobello, South Carolina
SCDHEC UST Permit #08650; Cost Agreement #45020
BLE Project Number J13-7051-05

WELL ID #: MW-7 & MW-11																	
AFVR FIELD MEASUREMENTS									EMISSION CALCULATIONS								
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	$PPM_{measured}$ (ppm)	Elapsed Time (hr:min)	Q_{std} (DSCFM)	PPM_d	PPM_c	K	C_{cm} (mg/dsm3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	PMR_g (gal/hr)
1/15/2013	0830	25.5	214	3	70	64.7	474	0:00	10.01	495.35	1,981.40	4	988.64	6.17E-05	0.04	0.04	0.01
1/15/2013	0900	25.5	380	3	90	69.5	499	0:30	17.14	521.48	2,085.91	4	1,040.79	6.50E-05	0.07	0.08	0.01
1/15/2013	0930	25.5	467	3	90	72.4	477	1:00	21.06	498.49	1,993.94	4	994.90	6.21E-05	0.08	0.09	0.01
1/15/2013	1000	25.5	389	3	92	75.2	561	1:30	17.48	586.27	2,345.08	4	1,170.10	7.30E-05	0.08	0.09	0.01
1/15/2013	1030	25.5	423	3	94	77.1	559	2:00	18.94	584.18	2,336.72	4	1,165.93	7.28E-05	0.08	0.10	0.02
1/15/2013	1100	25.5	509	3	94	77.9	549	2:30	22.79	573.73	2,294.92	4	1,145.07	7.15E-05	0.10	0.11	0.02
1/15/2013	1130	25.5	447	3	94	72.5	650	3:00	20.01	679.28	2,717.11	4	1,355.73	8.46E-05	0.10	0.12	0.02
1/15/2013	1200	25.5	456	3	96	76.7	644	3:30	20.34	673.01	2,692.03	4	1,343.22	8.39E-05	0.10	0.12	0.02
1/15/2013	1230	25.5	459	3	94	77.2	659	4:00	20.55	688.68	2,754.74	4	1,374.51	8.58E-05	0.11	0.12	0.02
1/15/2013	1300	25.5	477	3	94	76.7	679	4:30	21.35	709.58	2,838.34	4	1,416.22	8.84E-05	0.11	0.13	0.02
1/15/2013	1330	25.5	466	3	94	74.9	669	5:00	20.86	699.13	2,796.54	4	1,395.36	8.71E-05	0.11	0.13	0.02
1/15/2013	1400	25.5	525	3	96	77.1	675	5:30	23.42	705.40	2,821.62	4	1,407.88	8.79E-05	0.12	0.14	0.02
1/15/2013	1430	25.5	531	3	94	77.7	666	6:00	23.77	696.00	2,784.00	4	1,389.11	8.67E-05	0.12	0.14	0.02
1/15/2013	1500	25.5	520	3	94	79.1	680	6:30	23.28	710.63	2,842.52	4	1,418.31	8.85E-05	0.12	0.14	0.02
1/15/2013	0000	25.5	555	3	96	76.3	701	7:00	24.76	732.58	2,930.30	4	1,462.11	9.13E-05	0.14	0.16	0.03
1/15/2013	1600	25.5	501	3	94	78.1	686	7:30	22.43	716.90	2,867.60	4	1,430.82	8.93E-05	0.12	0.14	0.02
1/15/2013	1630	25.5	447	3	92	79.7	650	8:00	20.08	679.28	2,717.11	4	1,355.73	8.46E-05	0.10	0.12	0.02
Average Values		25.5	457	3	92	75.5	616		20.49	644.12	2,576.46	4	1,285.56	8.03E-05	0.10	0.11	0.02
B_{ws}	0.043	B_{wsw}	0.026														

Total Pounds of Carbon Recovered as Emissions: 0.79

Total Pounds of Gasoline Recovered as Emissions: 0.91

Total Gallons of Gasoline Recovered as Emissions: 0.15

NOTES:

AFVR event performed on January 15, 2013.
Vacuum applied to monitoring well MW-7 and MW-11.
0.09-feet and 0.02-feet of free-product was detected in MW-7 and MW-11, respectively prior to initiating the AFVR event.
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
in. of Hg - inches of mercury
ppm - parts per million
Q_{std} - flow at DSCFM
DSCFM - Dry Standard Cubic Feet per Minute
PPM_d - "dry" concentration

PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP
K - number of carbons in calibration gas
C_{cm} - mass concentration of VOC emissions as carbon
PMR_c - pollutant mass removal of VOCs as carbon
PMR_g - pollutant mass removal of VOCs as gasoline
B_{wsw} - lb of water per lb of dry air
B_{ws} - water vapor % by volume
Calculations have been derived from published guidance

Prepared By: DRM
Checked By : IAI

TABLE 4

AFVR Gauging Data - January 16, 2013
George Souther's Grocery
Campobello, South Carolina
SCDHEC UST Permit #08650; Cost Agreement #45020
BLE Project Number J13-7051-05

	Monitoring Well Gauging Data						Air Emissions	
	Vacuum (in. of Hg)		Depth to Free-Product / Water (feet BTOC)				Influent (ppm)	Effluent (ppm)
Time	MW-8	MW-32	MW-8	MW-19	MW-32	DW-4		
0930	19.0	19.0	22.40 / 23.45	28.57	25.66 / 27.10	22.75	509	21.6
1000	19.0	19.0	AFVR EVENT	28.59	AFVR EVENT	22.75	701	26.3
1030	19.0	19.0		28.61		22.75	760	22.0
1100	19.0	19.0		28.65		22.75	775	23.9
1130	19.0	19.0		28.70		22.75	769	23.6
1200	19.0	19.0		28.73		22.75	789	30.8
1230	19.0	19.0		28.77		22.75	755	31.2
1300	19.0	19.0		28.79		22.75	809	24.8
1330	19.0	19.0		28.81		22.75	756	26.9
1400	19.0	19.0		28.81		22.75	777	29.0
1430	19.0	19.0		28.81		22.75	880	30.0
1500	19.0	19.0		28.81		22.75	790	32.5
1530	19.0	19.0		28.86		22.75	789	35.0
1600	19.0	19.0		28.85		22.75	799	33.5
1630	19.0	19.0		28.85		22.75	712	41.0
1700	19.0	19.0		28.84		22.75	768	35.3
1730	19.0	19.0	23.05 / 23.06	28.84	26.20 / 26.21	22.75	798	37.3
		Initial Free Product (feet)	**1.05**	NFP	**1.44**	NFP		
		Final Free Product (feet)	**0.01**	NFP	**0.01**	NFP		

NOTES:
AFVR event performed on January 16, 2013.
1.05-feet and 1.44-feet of free-product was detected in MW-8 and MW-32, respectively prior to initiating the AFVR event.
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
in. of Hg - inches of mercury
BTOC - below top of casing
ppm - parts per million
NFP - No Free Product

Prepared By: DRM
Checked By : IAI

TABLE 4A

AFVR Emissions Field Data - January 16, 2013
George Souther's Grocery
Campobello, South Carolina
SCDHEC UST Permit #08650; Cost Agreement #45020
BLE Project Number J13-7051-05

WELL ID #: MW-8 and MW-32

AFVR FIELD MEASUREMENTS									EMISSION CALCULATIONS								
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	$PPM_{measured}$ (ppm)	Elapsed Time (hr:min)	Q_{std} (DSCFM)	PPM_d	PPM_c	K	C_{cm} (mg/dsm3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	PMR_g (gal/hr)
1/16/2013	0930	20.0	1,130	3	80	76.2	509	0:00	52.62	524.66	2,098.62	4	1,047.13	6.54E-05	0.21	0.24	0.04
1/16/2013	1000	20.0	935	3	82	77.8	701	0:30	43.38	722.56	2,890.24	4	1,442.12	9.00E-05	0.23	0.27	0.04
1/16/2013	1030	20.0	1,267	3	84	80.6	760	1:00	58.56	783.38	3,133.50	4	1,563.50	9.76E-05	0.34	0.40	0.06
1/16/2013	1100	20.0	1,013	3	84	81.2	775	1:30	46.82	798.84	3,195.35	4	1,594.36	9.95E-05	0.28	0.32	0.05
1/16/2013	1130	20.0	1,029	3	86	80.9	769	2:00	47.39	792.65	3,170.61	4	1,582.01	9.88E-05	0.28	0.32	0.05
1/16/2013	1200	20.0	1,100	3	86	81.1	789	2:30	50.66	813.27	3,253.07	4	1,623.16	1.01E-04	0.31	0.36	0.06
1/16/2013	1230	20.0	1,033	3	86	80.7	755	3:00	47.57	778.22	3,112.89	4	1,553.21	9.70E-05	0.28	0.32	0.05
1/16/2013	1300	20.0	997	3	86	82.0	809	3:30	45.91	833.88	3,335.53	4	1,664.30	1.04E-04	0.29	0.33	0.05
1/16/2013	1330	20.0	1,099	3	86	82.3	756	4:00	50.61	779.25	3,117.01	4	1,555.27	9.71E-05	0.29	0.34	0.05
1/16/2013	1400	20.0	989	3	86	78.7	777	4:30	45.55	800.90	3,203.60	4	1,598.47	9.98E-05	0.27	0.32	0.05
1/16/2013	1430	20.0	1,003	3	86	80.9	880	5:00	46.19	907.07	3,628.27	4	1,810.37	1.13E-04	0.31	0.36	0.06
1/16/2013	1500	20.0	1,035	3	84	81.7	790	5:30	47.84	814.30	3,257.19	4	1,625.21	1.01E-04	0.29	0.34	0.05
1/16/2013	1530	20.0	1,021	3	84	80.5	789	6:00	47.19	813.27	3,253.07	4	1,623.16	1.01E-04	0.29	0.33	0.05
1/16/2013	1600	20.0	988	3	84	79.5	799	6:30	45.67	823.58	3,294.30	4	1,643.73	1.03E-04	0.28	0.33	0.05
1/16/2013	1630	20.0	1,244	3	84	82.1	712	7:00	57.50	733.90	2,935.60	4	1,464.75	9.14E-05	0.32	0.37	0.06
1/16/2013	1700	20.0	1,364	3	86	83.0	768	7:30	62.82	791.62	3,166.49	4	1,579.96	9.86E-05	0.37	0.43	0.07
1/16/2013	1730	20.0	1,329	3	88	82.9	798	8:00	60.98	822.54	3,290.18	4	1,641.67	1.02E-04	0.37	0.43	0.07
Average Values		20.0	1,093	3	85	80.7	761		50.43	784.35	3,137.38	4	1,565.43	9.77E-05	0.30	0.34	0.05
B_{ws}	0.030	B_{wsw}	0.018														

Total Pounds of Carbon Recovered as Emissions: 2.37

Total Pounds of Gasoline Recovered as Emissions: 2.74

Total Gallons of Gasoline Recovered as Emissions: 0.44

NOTES:

AFVR event performed on January 16, 2013.
Vacuum applied to monitoring well MW-8 and MW-32.
1.05-feet and 1.44-feet of free-product was detected in MW-8 and MW-32, respectively prior to initiating the AFVR event.
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
inches of Hg - inches of mercury
ppm - parts per million
Q_{std} - flow at DSCFM
DSCFM - Dry Standard Cubic Feet per Minute
PPM_d - "dry" concentration

PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP
K - number of carbons in calibration gas
C_{cm} - mass concentration of VOC emissions as carbon
PMR_c - pollutant mass removal of VOCs as carbon
PMR_g - pollutant mass removal of VOCs as gasoline
B_{wsw} - lb of water per lb of dry air
B_{ws} - water vapor % by volume
Calculations have been derived from published guidance

Prepared By: DRM
Checked By : IAI

TABLE 5

AFVR Gauging Data - February 7, 2013
George Souther's Grocery
Campobello, South Carolina
SCDHEC UST Permit #08650; Cost Agreement #45020
BLE Project Number J13-7051-05

	Monitoring Well Gauging Data				Air Emissions	
	Vacuum (in. of Hg)	Depth to Free-Product / Water (feet BTOC)			Influent (ppm)	Effluent (ppm)
Time	MW-2R	MW-2R	DW-5	MW-9		
0800	25.0	22.85 / 23.43	22.01	23.01 / 23.34	496	21.6
0830	25.0	AFVR EVENT	22.41	23.12 / 23.32	300	26.3
0900	25.0		22.83	23.18 / 23.31	294	22.0
0930	23.0		22.86	23. 20 / 23.30	300	23.9
1000	22.5		22.90	23.20 / 23.33	329	23.6
1030	22.5		22.91	23.21 / 23.33	362	30.8
1100	22.5		22.92	23.22 / 23.34	394	31.2
1130	23.5		22.92	23.23 / 23.35	343	24.8
1200	23.0		22.92	23.24 / 23.36	358	31.6
1230	23.0		22.92	23.25 / 23.38	360	31.6
1300	23.0		22.93	26.26 / 23.39	327	29.3
1330	23.5		22.93	23.27 / 23.40	337	29.6
1400	23.5		22.93	23.30 / 23.41	335	29.7
1430	23.5		22.88	23.32 / 23.40	401	28.9
1500	23.0		22.83	23.33 / 23.39	335	30.2
1530	23.0		22.85	23.33 / 23.38	330	31.4
1600	23.0	24.86	22.87	23.33 / 23.36	325	31.8
		0.58	NFP	**0.33**		
		NFP	NFP	**0.03**		

NOTES:
AFVR event performed on February 7, 2013.
0.58-feet and 0.33-feet of free-product was detected in MW-2R and DW-5, respectively prior to initiating the AFVR event.
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
in. of Hg - inches of mercury
BTOC - below top of casing
ppm - parts per million
NFP - No Free Product

Prepared By: DRM
Checked By : IAI

TABLE 5A

AFVR Emissions Field Data - Febuary 7, 2013
George Souther's Grocery
Campobello, South Carolina
SCDHEC UST Permit #08650; Cost Agreement #45020
BLE Project Number J13-7051-05

WELL ID #: MW-2R

AFVR FIELD MEASUREMENTS									EMISSION CALCULATIONS								
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	$PPM_{measured}$ (ppm)	Elapsed Time (hr:min)	Q_{std} (DSCFM)	PPM_d	PPM_c	K	C_{cm} (mg/dsm3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	PMR_g (gal/hr)
2/7/2013	0800	25.5	272	3	80	70.1	496	0:00	11.91	543.78	2,175.11	4	1,085.30	6.78E-05	0.05	0.06	0.01
2/7/2013	0830	25.5	409	3	90	71.6	300	0:30	17.58	328.90	1,315.59	4	656.43	4.10E-05	0.04	0.05	0.01
2/7/2013	0900	25.5	233	3	120	71.3	294	1:00	9.50	322.32	1,289.28	4	643.30	4.02E-05	0.02	0.03	0.00
2/7/2013	0930	21.5	916	3	110	77.9	300	1:30	37.99	328.90	1,315.59	4	656.43	4.10E-05	0.09	0.11	0.02
2/7/2013	1000	21.5	748	3	118	73.7	329	2:00	30.59	360.69	1,442.76	4	719.88	4.49E-05	0.08	0.10	0.02
2/7/2013	1030	26.5	663	3	119	71.5	362	2:30	27.07	396.87	1,587.48	4	792.09	4.95E-05	0.08	0.09	0.01
2/7/2013	1100	26.5	701	3	120	78.3	394	3:00	28.57	431.95	1,727.81	4	862.11	5.38E-05	0.09	0.11	0.02
2/7/2013	1130	24.5	779	3	120	72.3	343	3:30	31.75	376.04	1,504.16	4	750.52	4.69E-05	0.09	0.10	0.02
2/7/2013	1200	26.0	663	3	120	77.5	358	4:00	27.02	392.48	1,569.94	4	783.34	4.89E-05	0.08	0.09	0.01
2/7/2013	1230	24.0	564	3	115	80.2	360	4:30	23.19	394.68	1,578.71	4	787.71	4.92E-05	0.07	0.08	0.01
2/7/2013	1300	26.0	770	3	120	80.5	327	5:00	31.39	358.50	1,433.99	4	715.51	4.47E-05	0.08	0.10	0.02
2/7/2013	1330	24.5	529	3	118	86.4	337	5:30	21.64	369.46	1,477.85	4	737.39	4.60E-05	0.06	0.07	0.01
2/7/2013	1400	24.0	741	3	115	87.4	335	6:00	30.47	367.27	1,469.08	4	733.01	4.58E-05	0.08	0.10	0.02
2/7/2013	1430	24.0	760	3	115	85.1	401	6:30	31.25	439.63	1,758.51	4	877.43	5.48E-05	0.10	0.12	0.02
2/7/2013	1500	24.0	830	3	115	87.1	335	7:00	34.13	367.27	1,469.08	4	733.01	4.58E-05	0.09	0.11	0.02
2/7/2013	1530	24.0	663	3	115	85.8	330	7:30	27.26	361.79	1,447.15	4	722.07	4.51E-05	0.07	0.09	0.01
2/7/2013	1600	24.0	651	3	112	84.1	325	8:00	26.91	356.31	1,425.22	4	711.13	4.44E-05	0.07	0.08	0.01
Average Values		24.6	641	3	113	78.9	349		26.36	382.17	1,528.66	4	762.74	4.76E-05	0.08	0.09	0.01
B_{ws}	0.088	B_{wsw}	0.053														

Total Pounds of Carbon Recovered as Emissions: 0.60

Total Pounds of Gasoline Recovered as Emissions: 0.70

Total Gallons of Gasoline Recovered as Emissions: 0.11

NOTES:

AFVR event performed on February 7, 2013.
Vacuum applied to monitoring well MW-2R.
0.58-feet and 0.33-feet of free-product was detected in MW-2R and DW-5, respectively prior to initiating the AFVR event.
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).
inches of Hg - inches of mercury
ppm - parts per million
Q_{std} - flow at DSCFM
DSCFM - Dry Standard Cubic Feet per Minute
PPM_d - "dry" concentration

PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP
K - number of carbons in calibration gas
C_{cm} - mass concentration of VOC emissions as carbon
PMR_c - pollutant mass removal of VOCs as carbon
PMR_g - pollutant mass removal of VOCs as gasoline
B_{wsw} - lb of water per lb of dry air
B_{ws} - water vapor % by volume
Calculations have been derived from published guidance

Prepared By: DRM
Checked By : IAI

TABLE 6

Monitoring Well Gauging - March 28, 2013
George Souther's Grocery
Campobello, South Carolina
SCDHEC UST Permit #08650; Cost Agreement #45020
BLE Project Number J13-7051-05

Well ID	MW-1	MW-2R	MW-3R	MW-5	MW-6	MW-7	MW-8	MW-9	MW-11
Depth to Free-Product / Groundwater	NFP / 16.95	21.61 / 21.68	NFP / 17.94	15.02 / 15.05	NFP / 12.22	15.98 / 16.01	20.41 / 20.62	NFP / 21.57	NFP / 16.42
Free-Product Thickness (ft)	NFP	**0.02**	NFP	**0.03**	NFP	**0.03**	**0.21**	NFP	NFP

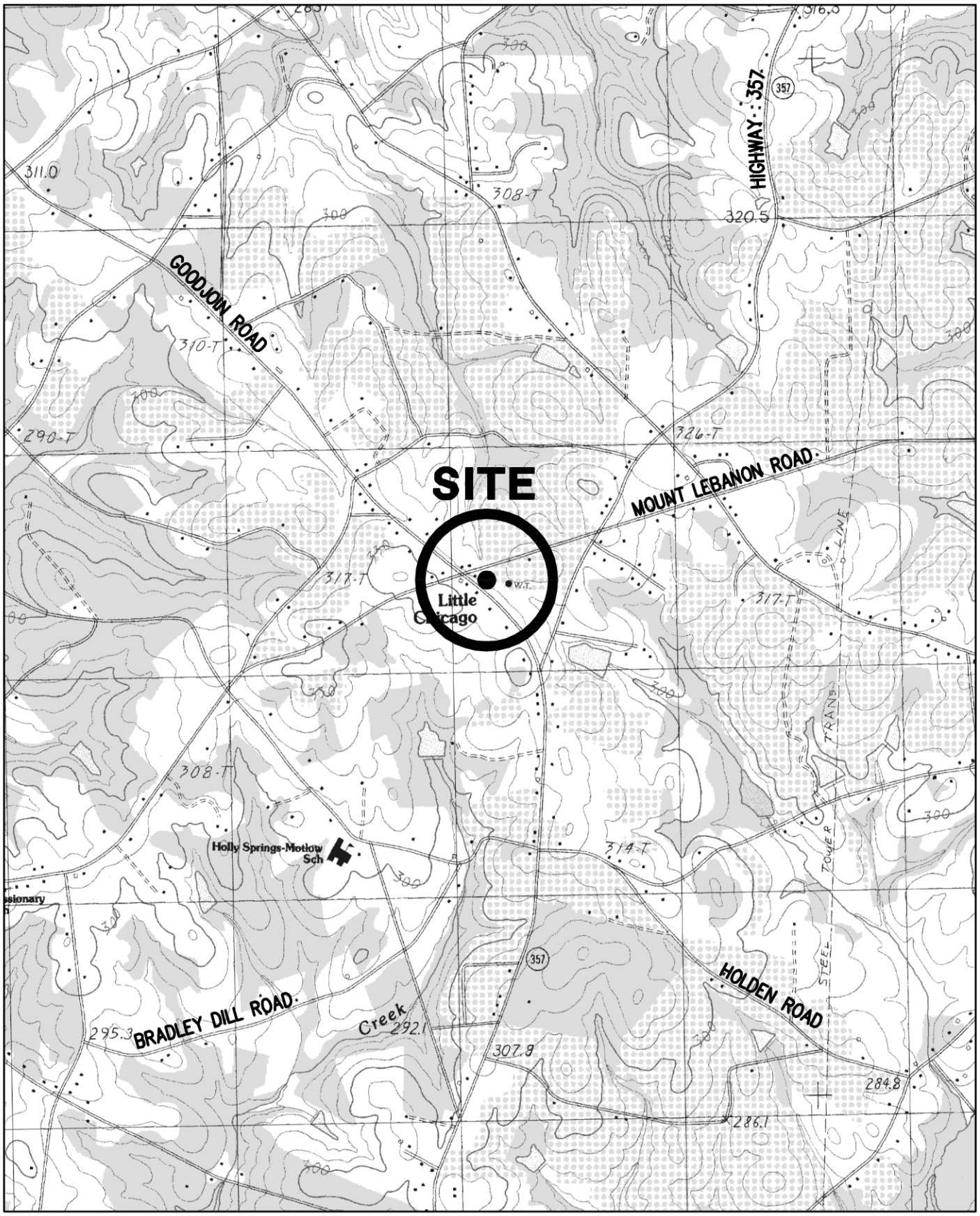
Well ID	MW-19	MW-27	MW-28	MW-29	MW-30	MW-31	MW-32	RW-1	RW-2
Depth to Free-Product / Groundwater	NFP / 26.60	NFP / 2.23	NFP / 15.08	NFP / 22.83	DRY	NFP / 26.39	24.50 / 25.04	NFP / 17.04	20.81 / 21.90
Free-Product Thickness (ft)	NFP	NFP	NFP	NFP	DRY	NFP	**0.54**	NFP	**1.09**

Well ID	PW-1	PW-2	PW-3	DW-1	DW-2	DW-3	DW-4	DW-5
Depth to Free-Product / Groundwater	NFP / 17.01	DRY	DRY	NFP / 18.35	NFP / 12.37	NFP / 16.11	NFP / 20.94	NFP / 21.46
Free-Product Thickness (ft)	NFP	DRY	DRY	NFP	NFP	NFP	NFP	NFP

NOTES:
Measurements are in feet below top of casing
NFP - No Free Product

Prepared By:DRM
Checked By: IAI

FIGURES



1 .5 0 KILOMETERS 1

1000 0 METERS 1000

REFERENCE:
USGS TOPOGRAPHIC MAP, 7.5 MINUTE SERIES, CAMPOBELLO, S.C. QUADRANGLE, 1983.

DRAWN: ACE	DATE: 03-20-13	BLE INC. BUNNELL-LAMMONS ENGINEERING, INC. 6004 PONDERS COURT GREENVILLE, SOUTH CAROLINA 29615 PHONE: (864)288-1265 FAX: (864)288-4430	SITE LOCATION MAP GEORGE SOUTHERS GROCERY UST PERMIT #08650 CAMPOBELLO, SOUTH CAROLINA	FIGURE
CHECKED: DRM	CAD: GEORGESOUGR-054SLM			1
APPROVED:	JOB NO: J12-7051-05			

WELL #	MW-7	
DATE	1-15-13	3-28-13
DEPTH TO FREE PRODUCT (FEET BELOW TOP OF CASING)	17.6	15.98
DEPTH TO WATER (FEET BELOW TOP OF CASING)	17.69	16.04
FREE PRODUCT THICKNESS (FEET)	0.09	0.06

WELL #	RW-1	
DATE	1-9-13	3-28-13
DEPTH TO FREE PRODUCT (FEET BELOW TOP OF CASING)	19.1	NA
DEPTH TO WATER (FEET BELOW TOP OF CASING)	20.01	17.04
FREE PRODUCT THICKNESS (FEET)	0.91	NFP

WELL #	MW-6	
DATE	1-15-13	3-28-13
FREE PRODUCT THICKNESS (FEET)	NFP	NFP

WELL #	MW-3R	
DATE	1-9-13	3-28-13
DEPTH TO FREE PRODUCT (FEET BELOW TOP OF CASING)	20.04	NA
DEPTH TO WATER (FEET BELOW TOP OF CASING)	20.89	17.94
FREE PRODUCT THICKNESS (FEET)	0.85	NFP

WELL #	MW-5	
DATE	1-8-13	3-28-13
DEPTH TO FREE PRODUCT (FEET BELOW TOP OF CASING)	16.79	15.02
DEPTH TO WATER (FEET BELOW TOP OF CASING)	17.08	15.05
FREE PRODUCT THICKNESS (FEET)	0.29	0.03

WELL #	MW-11	
DATE	1-15-13	3-28-13
DEPTH TO FREE PRODUCT (FEET BELOW TOP OF CASING)	15.55	NA
DEPTH TO WATER (FEET BELOW TOP OF CASING)	15.57	16.42
FREE PRODUCT THICKNESS (FEET)	0.02	NFP

WELL #	DW-3	
DATE	1-15-13	3-28-13
FREE PRODUCT THICKNESS (FEET)	NFP	NFP

WELL #	MW-1	
DATE	1-9-13	3-28-13
FREE PRODUCT THICKNESS (FEET)	NFP	NA

WELL #	MW-8	
DATE	1-16-13	3-28-13
DEPTH TO FREE PRODUCT (FEET BELOW TOP OF CASING)	22.4	20.41
DEPTH TO WATER (FEET BELOW TOP OF CASING)	23.45	20.62
FREE PRODUCT THICKNESS (FEET)	1.05	0.21

WELL #	DW-4	
DATE	1-16-13	3-28-13
FREE PRODUCT THICKNESS (FEET)	NFP	NFP

WELL #	MW-19	
DATE	1-16-13	3-28-13
FREE PRODUCT THICKNESS (FEET)	NFP	NFP

WELL #	DW-1	
DATE	1-9-13	3-28-13
FREE PRODUCT THICKNESS (FEET)	NFP	NFP

WELL #	MW-28	
DATE	1-8-13	3-28-13
FREE PRODUCT THICKNESS (FEET)	NFP	NFP

WELL #	RW-2	
DATE	1-8-13	3-28-13
DEPTH TO FREE PRODUCT (FEET BELOW TOP OF CASING)	22.41	20.81
DEPTH TO WATER (FEET BELOW TOP OF CASING)	24.33	21.90
FREE PRODUCT THICKNESS (FEET)	1.92	1.09

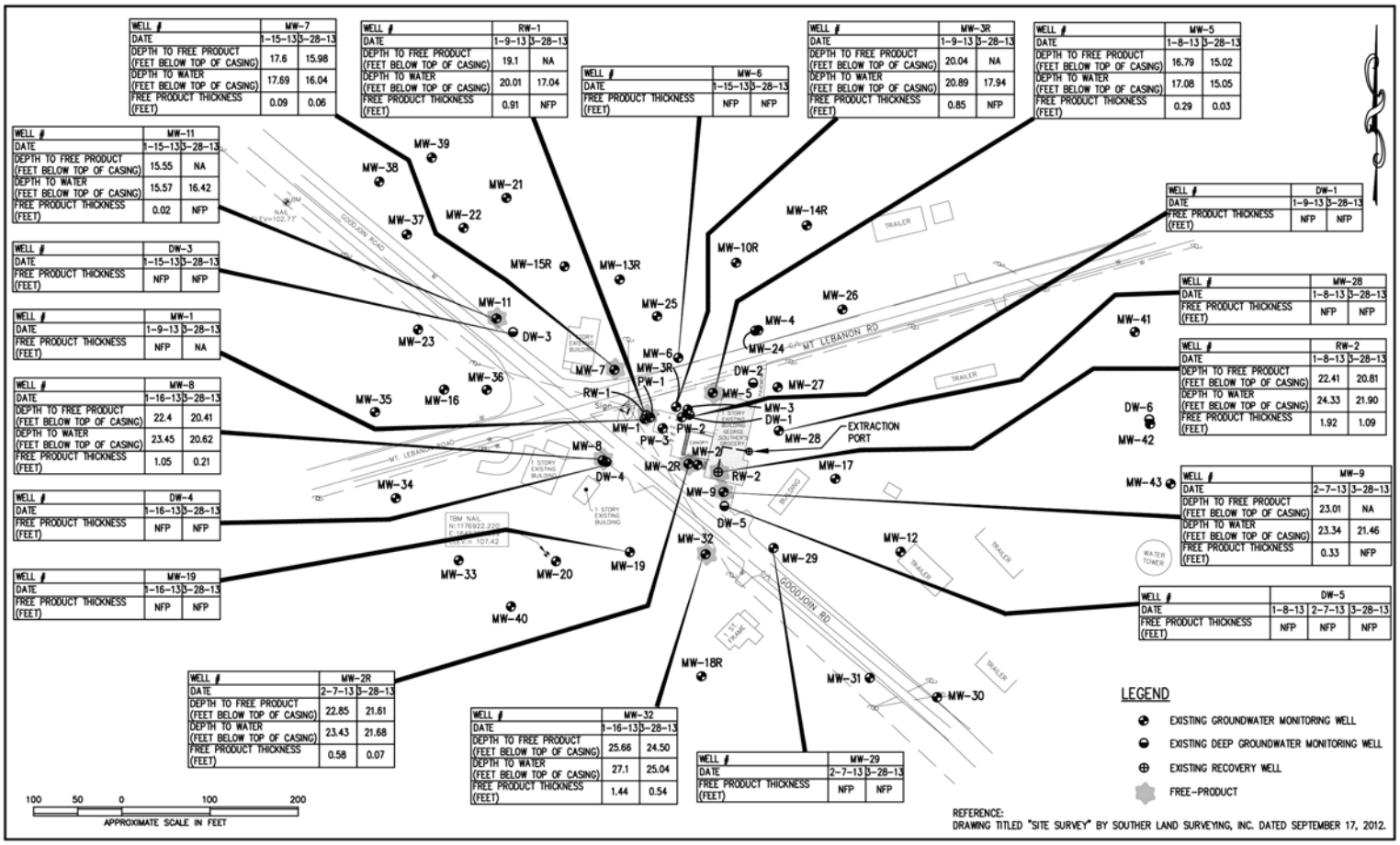
WELL #	MW-9	
DATE	2-7-13	3-28-13
DEPTH TO FREE PRODUCT (FEET BELOW TOP OF CASING)	23.01	NA
DEPTH TO WATER (FEET BELOW TOP OF CASING)	23.34	21.46
FREE PRODUCT THICKNESS (FEET)	0.33	NFP

WELL #	DW-5		
DATE	1-8-13	2-7-13	3-28-13
FREE PRODUCT THICKNESS (FEET)	NFP	NFP	NFP

WELL #	MW-2R	
DATE	2-7-13	3-28-13
DEPTH TO FREE PRODUCT (FEET BELOW TOP OF CASING)	22.85	21.61
DEPTH TO WATER (FEET BELOW TOP OF CASING)	23.43	21.68
FREE PRODUCT THICKNESS (FEET)	0.58	0.07

WELL #	MW-32	
DATE	1-16-13	3-28-13
DEPTH TO FREE PRODUCT (FEET BELOW TOP OF CASING)	25.66	24.50
DEPTH TO WATER (FEET BELOW TOP OF CASING)	27.1	25.04
FREE PRODUCT THICKNESS (FEET)	1.44	0.54

WELL #	MW-29	
DATE	2-7-13	3-28-13
FREE PRODUCT THICKNESS (FEET)	NFP	NFP



LEGEND

- EXISTING GROUNDWATER MONITORING WELL
- EXISTING DEEP GROUNDWATER MONITORING WELL
- EXISTING RECOVERY WELL
- FREE-PRODUCT

REFERENCE:
DRAWING TITLED "SITE SURVEY" BY SOUTHER LAND SURVEYING, INC. DATED SEPTEMBER 17, 2012.

DRAWN BY: ACE	DATE: 03-20-13	REVISIONS	
CHECKED BY: DRM	FILE: GEORGESOUGR-05FPTM	No. / DESCRIPTION / BY	
APPROVED BY:	JOB NO: J12-7051-05		

BLE INC.
BUNNELL-LAMMONS ENGINEERING, INC.
6004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615
PHONE: (864)288-1265 FAX: (864)288-4430

FREE-PRODUCT THICKNESS MAP
GEORGE SOUTHERS GROCERY
UST PERMIT #08650
CAMPOBELLO, SOUTH CAROLINA

FIGURE 2

APPENDICES

APPENDIX A

WASTE TRANSPORTATION AND DISPOSAL RECORDS

VLS recovery services, llc

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
2. Page 1 of
3. Emergency Response Phone
4. Waste Tracking Number: 11013BLE

5. Generator's Name and Mailing Address
BUNNELL-LAMMON ENG, INC
6004 PONDERS COURT
GREENVILLE, SC 29615
Generator's Phone: 864-288-1265

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

6. Transporter 1 Company Name: BLE
U.S. EPA ID Number

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

8. Designated Facility Name and Site Address: VLS RECOVERY SERVICES, LLC
305 S. MAIN STREET
MAULDIN, SC 29662
Facility's Phone: 864-962-9953
U.S. EPA ID Number: SCR000762468

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. NON HAZ NON REG WELL WATER #11312 — Southern Grocery UST# 08650 280 Good Join Rd, Campbello SC			310	G
2. Non Haz Non Reg well water — Corner Stop #99 UST# 11079 13780 E. Wade Hampton Greer SC			18	G
3. non HAZ Non Reg well water — Southern Grocery UST# 08650 280 good join Rd Campbello, SC			590	G
4.				

13. Special Handling Instructions and Additional Information

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: Steven Medina
Signature
Month 1 Day 10 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: Steven Medina
Signature
Month 1 Day 10 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
Signature
Month 1 Day 10 Year 13

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

VLS recovery services, llc

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
				J12-7051-04

GENERATOR

5. Generator's Name and Mailing Address
BUNNELL-LAMMON ENG, INC
6004 PONDERS COURT
GREENVILLE, SC 29615
Generator's Phone: 864-288-1288

Generator's Site Address (if different than mailing address)
Southern Grocery
Goodson Rd
Campobello, SC

6. Transporter 1 Company Name: BLE
U.S. EPA ID Number:

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

8. Designated Facility Name and Site Address: VLS RECOVERY SERVICES, LLC
305 S. MAIN STREET
MAULDIN, SC 29662
Facility's Phone: 864-962-9953
U.S. EPA ID Number: SCR000762468

	9. Waste Shipping Name and Description		10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON HAZ NON REG WELL WATER #11312	George Southers grocery UST 08650			630	G	
2.	Wellwater #11312	Rd Mfg Greenville SC UST 07292			10	G	
3.	Wellwater #11312	Fountain Inn Exxon Fountain Inn SC UST 04142			30	G	
4.	Wellwater #11312	PAM store Williamston SC UST 00478			17.5	G	
13. Special Handling Instructions and Additional Information	Wellwater #11312	Smiley's Food Mart Simpsonville UST 12078			140	G	

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: [illegible] | Signature: [illegible] | Month: 7 | Day: 28 | Year: 13

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: [illegible] | Signature: [illegible] | Month: 7 | Day: 28 | Year: 13

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: Jack Cantrell | Signature: Jack Cantrell | Month: 7 | Day: 28 | Year: 13

VLS recovery services, llc

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number
2. Page 1 of
3. Emergency Response Phone
4. Waste Tracking Number: 012-7635-05

5. Generator's Name and Mailing Address
BUNNELL-LAMMON ENG, INC
5004 PONDERS COURT
GREENVILLE, SC 29615
Generator's Phone: 864-288-1285

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

6. Transporter 1 Company Name: BLE
U.S. EPA ID Number

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

8. Designated Facility Name and Site Address
VLS RECOVERY SERVICES, LLC
305 S. MAIN STREET
MAULDIN, SC 29662
Facility's Phone: 864-962-9963
U.S. EPA ID Number: SCR000762458

GENERATOR

	9. Waste Shipping Name and Description	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.
1.	NON HAZ NON REG WELL WATER #11312 Kellett Shell Mauldin SC. UST# 04599			802	G
2.	NON HAZ NON REG well water #11312 Surther Grocery 280 Good Spring Rd UST# 08150			419	G
3.	NON HAZ NON REG well water #11312 Young's 25 5318 Fairfield UST# 029180			167	G
4.	NON HAZ NON REG well water #11312 Former Ryder Truck 10 Woods Lake Rd. UST# 11929			23	G

13. Special Handling Instructions and Additional Information

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: Bobby Wilkinson
Signature
Month 2 Day 5 Year 13

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: Robert Wilkinson
Signature
Month 2 Day 12 Year 13

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: Steven Wilson
Signature
Month 2 Day 12 Year 13

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

JAN 18 2008

BRIAN SHANE
MIDLANDS ENVIRONMENTAL CONSULTANTS INC
P O BOX 854
LEXINGTON SC 29071-0854

Re: Bid # IBF-30519-8/8/06-EMW; PO # 646282
Notice to Proceed

Dear Mr. Shane:

Based on the award of the referenced bid package, enclosed are the information packets to conduct Aggressive Fluid Vapor Recovery (AFVR) event at several facilities. The packets contain the necessary approval for work to begin. You may commence with a site reconnaissance before the AFVR. If monitoring wells do not contain measurable free phase product, contact the UST project manager for further instructions. The facilities have been assigned Cost Agreement (CA) numbers as listed below. Please reference the CA numbers and Purchase Order # 646282 on the appropriate invoices submitted for payment against the facilities. As specified in the referenced bid, **the completed invoice forms and associated reports (include contract certification number) are expected on or before the designated due date (see below).**

UST Permit#	Facility	County	Release #	Work Scope	Due Date*	CA #	Approved Amt
18662	Bay Creek Villas	Colleton	1	8 AFVR	60 days	31488	8,640.00
07704	Pitt Stop 40	Richland	1	2 AFVR	60 days	31497	2,275.00
08650	George Souther's Grocery	Spartanburg	1	4 AFVR	60 days	31550	4,375.00

*From receipt of letter

Midland's Environmental Consultants, Inc. will perform services at the sites on behalf of the site's UST owners; however, payments will be made from the SUPERB Account. The site's UST owners have no obligation for payment for this scope of work. Please note that Sections 44-2-110(4) and 44-2-130(B) of the SUPERB Statute state that no costs will be allowed (considered for payment) unless prior approval from the Department is obtained.

UST PROGRAM
DOCKETING # 3

If for any reason there are changes in these cost agreements, any associated changes to this cost agreement must be pre-approved by this Department in order for Midlands Environmental Consultants to seek future cost compensation. Please contact the site's project manager for technical and/or financial approval.

Any item(s) not clearly or completely addressed in the report (disposal manifest for generated ground water, etc.) WILL NOT be compensated by the SUPERB Account.

The Department grants pre-approval for transportation of free phase product and petroleum contaminated groundwater from the referenced site to a permitted treatment facility. The free product and contaminated groundwater must be accepted by the approved treatment facility. There can be no spillage or leakage in transport. A copy of the disposal manifest from the receiving facility that clearly designates the quantity received must be included as an appendix to the report.

If you have any questions concerning this correspondence or need further assistance, please contact me by phone at (803) 896-6664, by fax at (803) 896-6245 or by email at milenkmp@dhec.sc.gov.

Sincerely,

Maia Milenkova

Maia Milenkova, Hydrogeologist
Assessment Section
Assessment & Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management

enc.: Approved Cost Agreements (ACA)
Information Packets

cc: Technical File (w/copy of ACA)

SCDHEC/UST/01/17/08/MPM

Approved Cost Agreement 31550

Facility: 08650 GEORGE SOUTHER'S GROCERY
PETRUSLB

PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB						
		A	EQUIPMENT	4.0000	350.00	1,400.00
17 DISPOSAL						
		A2	WASTEWATER - PUMPING TEST	1,000.0000	0.10	100.00
23 EFR						
		A	8 HOUR EVENT	4.0000	600.00	2,400.00
		C	OFF GAS TREATMENT	4.0000	100.00	400.00
		D	SITE RECONNAISSANCE	1.0000	75.00	75.00
				Total Amount		4,375.00

D H E C
PROMOTE PROTECT PROSPER
Catherine B. Templeton, Director
Promoting and protecting the health of the public and the environment

DEC 1 5 2014

MR GEORGE E SOUTHER
280 GOODJOIN ROAD
CAMPOBELLO SC 29322

UST 30 tech DOCKETING

Re: **Site-Specific Work Plan Directive**
George Souther's Grocery, 280 Goodjoin Road, Campobello, SC
UST Permit #08650
Release reported December 31, 1991
Report of Aggressive Fluid Vapor Recovery Events and Monitoring Well Gauging received April 22, 2013
Spartanburg County

Dear Mr. Souther:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the referenced report. The report indicates the removal of petroleum product and vapors from the subsurface during a series of Aggressive Fluid Vapor Recovery events conducted in January and February 2013.

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 a groundwater sampling event as outlined in the UST Quality Assurance Program Plan (QAPP) Revision 2.0 is necessary. This scope of work must be conducted in accordance with the UST QAPP and in compliance with all applicable regulations. Monitoring wells MW-1, MW-2R, MW-3R, MW-4, MW-5, MW-6R, MW-7, MW-8, MW-9, MW-10R, MW-11, MW-12, MW-13R, MW-14R, MW-15R, MW-16, MW-17, MW-18R, MW-19 through MW-31, MW-32R, MW-33 through MW-45, DW-1 through DW-6, and PW-1 through PW-3 associated with the release should be purged and sampled. In addition, recovery wells RW-1 and RW-2 should be gauged. Laboratory analyses should be performed for BTEX, naphthalene, MtBE, 1,2-DCA, the oxygenates, and EDB. A copy of the QAPP Revision 2.0 for the UST Division is available at:
http://www.scdhec.gov/environment/docs/QAPP_Rev-2_April2013.pdf.

Your contractor must complete and submit the Site-Specific Work Plan and Cost Agreement for the aforementioned scope of work to the UST Division within thirty (30) days of the date of this letter. The Site-Specific Work Plan form may be found at http://www.scdhec.gov/library/D-0653.pdf. 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 new SUPERB rates became effective May 15, 2014 and that technical and financial pre-approval from the Agency must be issued before work begins.

On all correspondence regarding this site, please reference **UST Permit #08650**. If you have questions or need additional information, feel free to contact me by telephone at (803) 898-0671 or by e-mail to RiversMS@dhec.sc.gov.

Sincerely,

Michael Rivers

Michael Rivers, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Mr. Trevor Benton, P.G., Bunnell-Lammons Engineering, Inc., 6004 Ponders Court, Greenville, SC 29615
✓Technical File

MR/SSWP12 11.14

Document Receipt Information

☐ Hard Copy ☒ CD ☐ Email

Date Received 2-6-15

Permit Number 08650

Project Manager Mike Rivers

Name of Contractor BLE

UST Certification Number

Docket Number 31 tech

Scanned

SSWP - GWS

BUNNELL-LAMMONS ENGINEERING, INC.
GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

February 3, 2015

South Carolina Department of Health and Environmental Control
Underground Storage Tank Division
2600 Bull Street
Columbia, South Carolina 29201-1708

Attention: Mr. Michael Rivers, Hydrogeologist

Subject: **Site Specific Work Plan –Groundwater Sampling Event**
George Souther's Grocery
280 Goodjoin Road
Campobello, Spartanburg County, South Carolina
UST Permit #08650
BLE Project No. J14-7051-06

Dear Mr. Rivers:

On behalf of Mr. George Souther, Bunnell-Lammons Engineering, Inc. (BLE) submits herein the completed Site Specific Work Plan (SSWP) for the subject site. This submittal is in response to the South Carolina Department of Health and Environmental Control's (SCDHEC) SSWP request dated December 15, 2014, for the implementation of a groundwater sampling event at the subject site. Please do not hesitate to contact us if you have any questions concerning this submittal.

Sincerely,

BUNNELL-LAMMONS ENGINEERING, INC.

Trevor J. Benton, P.G.
Senior Hydrogeologist
Registered, South Carolina No. 2395

Thomas L. Lammons, P.G., CHMM
Principal Hydrogeologist
Registered, South Carolina No. 893

cc: Mr. George Souther, 280 Goodjoin Road, Campobello, South Carolina 29322

6004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615

PHONE (864) 288-1265
FAX (864) 288-4430

D H E C
PROMOTE PROTECT PROSPER

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

To: Mr. Michael Rivers (SCDHEC Project Manager)
From: Trevor J. Benton, P.G. (Contractor Project Manager)
Contractor: BLE UST Contractor Certification Number: UCC-0010

Facility Name: George Souther's Grocery UST Permit #: 08650
Facility Address: 280 Goodjoin Road, Campobello, South Carolina
Responsible Party: Mr. George Souther Phone: _____
RP Address: 280 Goodjoin Road, Campobello, South Carolina 29322
Property Owner (if different): Same as above
Property Owner Address: Same as above
Current Use of Property: Active fueling station and convenience store

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
54 Monitoring Wells	_____ Surface Water	3 Duplicate	2 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: NA

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: 0 feet per point
Monitoring Well development method (consistent with SOP): NA
Comments, if warranted:

UST Permit #: 08650 Facility Name: George Souther's Grocery

Implementation Schedule (Number of calendar days from approval)

Field Work Start-Up: 14 Field Work Completion: 45

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: 250 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.

Sample all monitoring wells associated with the facility. Recovery wells RW-1 and RW-2 will only be gauged during this scope of work.

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:

SCDHEC Certification Number:

Name of Laboratory Director:

NA Well Driller as indicated in ACQAO? (Yes/No) If no, indicate driller information below.

Name of Well Driller:

SCLLR Certification Number:

No Other variations from ACQAP. Please describe below.

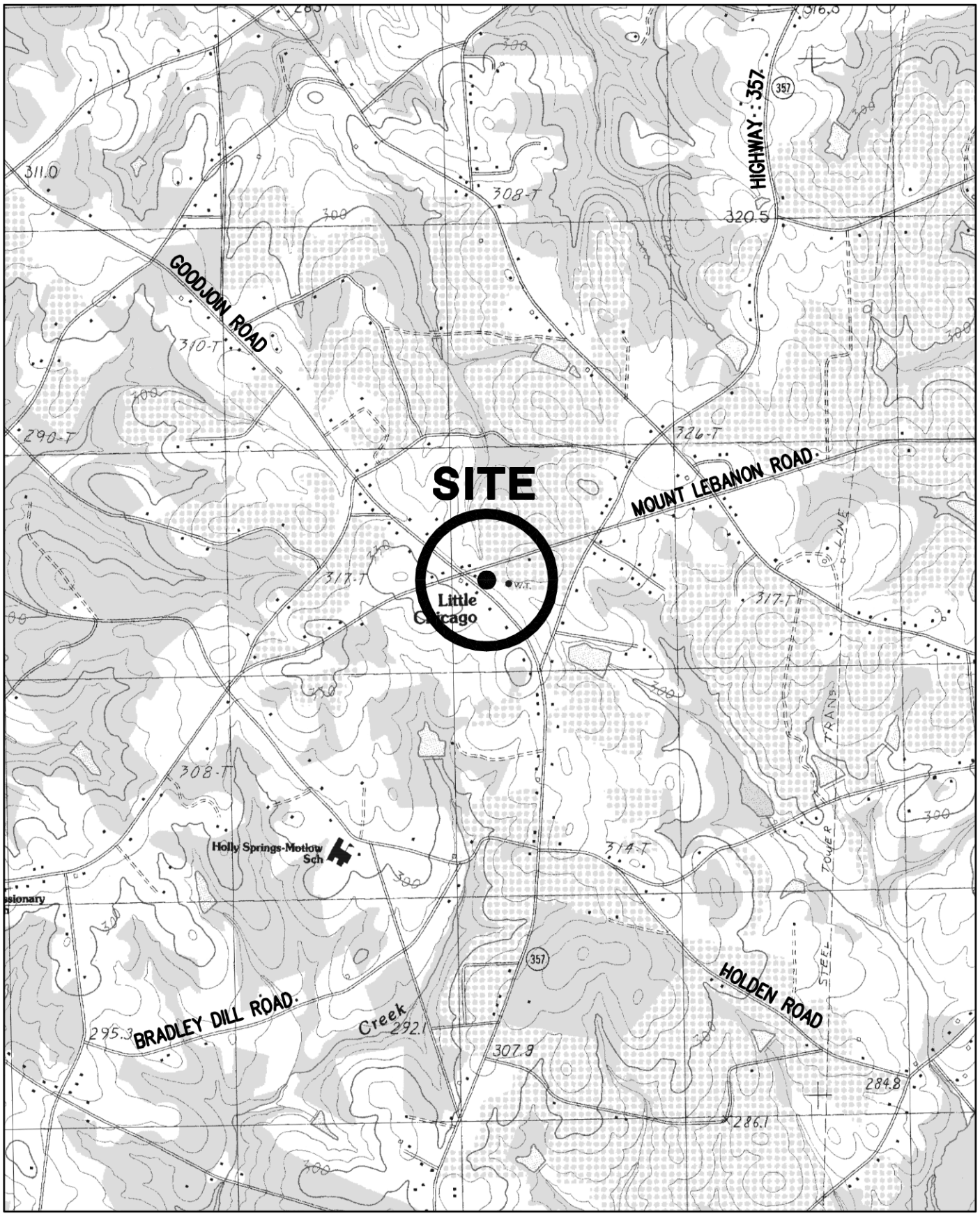
Attachments

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

North Arrow	Proposed monitoring well locations
Location of property lines	Legend with facility name and address, UST permit number, and bar scale
Location of buildings	Streets or highways (indicate names and numbers)
Previous soil sampling locations	Location of all present and former ASTs and USTs
Previous monitoring well locations	Location of all potential receptors
Proposed soil boring locations	

3. Assessment Component Cost Agreement, SCDHEC Form D-3664

FIGURES

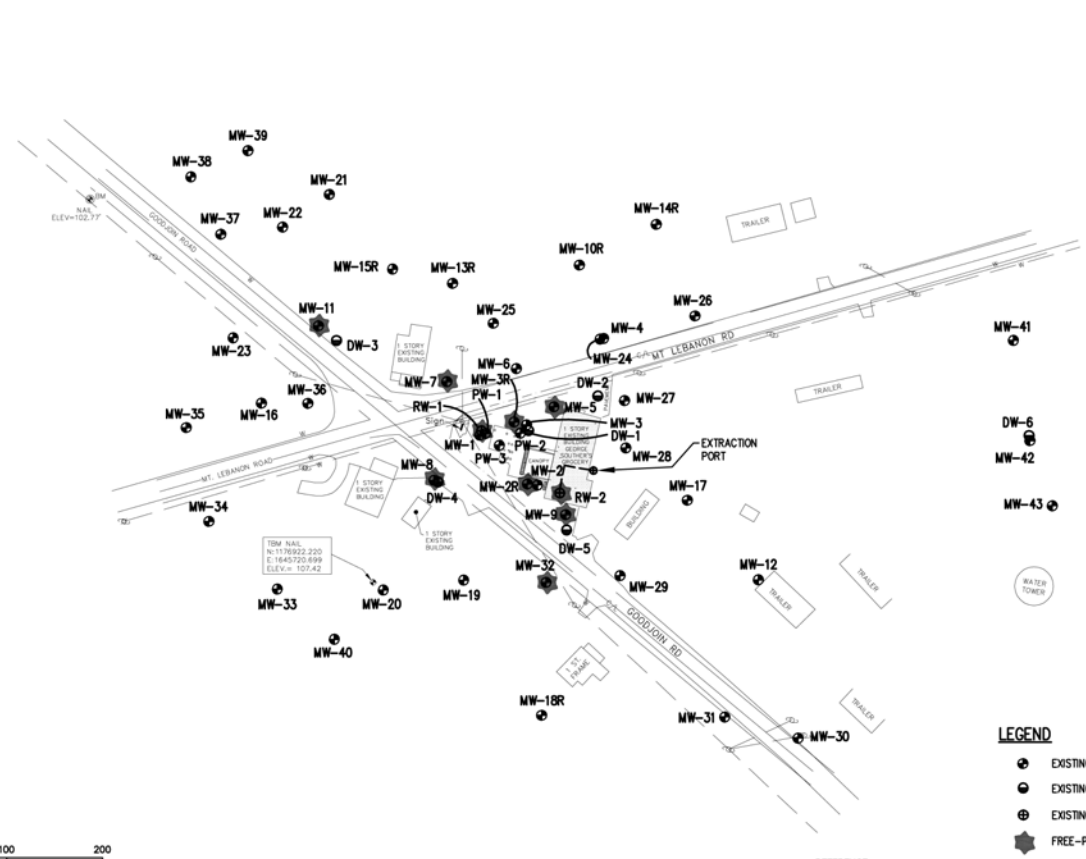


1 .5 0 KILOMETERS 1

1000 0 METERS 1000

REFERENCE:
USGS TOPOGRAPHIC MAP, 7.5 MINUTE SERIES, CAMPOBELLO, S.C. QUADRANGLE, 1983.

DRAWN: ACE	DATE: 03-20-13	BLE INC. BUNNELL-LAMMONS ENGINEERING, INC. 6004 PONDERS COURT GREENVILLE, SOUTH CAROLINA 29615 PHONE: (864)288-1265 FAX: (864)288-4430	SITE LOCATION MAP GEORGE SOUTHERS GROCERY UST PERMIT #08650 CAMPOBELLO, SOUTH CAROLINA	FIGURE
CHECKED: DRM	CAD: GEORGESOUGR-054SLM			1
APPROVED:	JOB NO: J12-7051-05			



LEGEND

- EXISTING GROUNDWATER MONITORING WELL
- EXISTING DEEP GROUNDWATER MONITORING WELL
- EXISTING RECOVERY WELL
- FREE-PRODUCT

100 50 0 100 200

APPROXIMATE SCALE IN FEET

REFERENCE:
DRAWING TITLED "SITE SURVEY" BY SOUTHER LAND SURVEYING, INC. DATED SEPTEMBER 17, 2012.

DRAWN BY: ACE	DATE: 01-30-15	REVISIONS	
CHECKED BY: DRM	FILE: GEORGESOUGR-06SP	No. / DESCRIPTION / BY	
APPROVED BY:	JOB NO: J15-7051-06		

BLE INC.
BUNNELL-LAMMONS ENGINEERING, INC.
6004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615
PHONE: (864)288-1265 FAX: (864)288-4430

SITE PLAN
GEORGE SOUTHERS GROCERY
UST PERMIT #08650
CAMPOBELLO, SOUTH CAROLINA

FIGURE
2

ASSESSMENT COMPONENT INVOICE

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

Facility Name: **George Southers Grocery**

UST Permit #: 08650 **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 54 wells - 3 person mobs	4	each	$423.00		$1,692.00
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	$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
C1. Telescoping		per foot	$50.00		$0.00
D1. 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
H1. 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	54	per well/receptor	$60.00		$3,240.00
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	2	per well	$7.00		$14.00
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(8260B)	62	per sample	$122.00		$7,564.00
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	60	per sample	$45.20		$2,712.00
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	250	gallon	$0.56		$140.00
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	$3,825.00		$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
F. 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	1	each	$50.00		$50.00
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	12%	percent	$15,719.80		$1,886.38
TOTAL					$17,606.18

*The appropriate mobilization cost can be added to complete these tasks, as necessary

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 32 Keel

MR GEORGE E SOUTHER
280 GOODJOIN ROAD
CAMPOBELLO SC 29322

FEB 2 4 2015

Re: **Groundwater Sampling Directive**
George Souther's Grocery, 280 Goodjoin Road, Campobello, SC
UST Permit #08650; Cost Agreement #49434
Release reported December 31, 1991
Site-Specific Work Plan and Cost Agreement received February 6, 2015
Spartanburg County

Dear Mr. Souther:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (Agency) has reviewed and approved the referenced work plan submitted on your behalf by Bunnell-Lammons Engineering, Inc. The previous assessment work for this release indicates that petroleum Chemicals of Concern (CoC) are present in the groundwater at concentrations that exceed risk-based screening levels (RBSL). In order to obtain current groundwater quality data, a comprehensive sampling event is necessary. All work must be conducted in accordance with the UST Quality Assurance Protection Plan (QAPP) Revision 2.0 and in compliance with all applicable regulations. A copy of the Agency QAPP for the UST Division is available at: http://www.scdhec.gov/environment/docs/QAPP_Rev-2_April2013.pdf.

Groundwater sampling activities at the site should begin immediately upon receipt of this letter. Cost Agreement #49434 has been approved for the amount shown on the enclosed cost agreement form for the sampling of all monitoring wells associated with the release. In addition, recovery wells RW-1 and RW-2 should be gauged. Groundwater samples should be analyzed for BTEX, naphthalene, MtBE, 1,2-DCA, the oxygenates, and EDB. Analyses should be in accordance with Appendix E of the QAPP to include a duplicate samples, field and trip blanks.

In accordance with the QAPP, a weekly status report of the project should be provided by e-mail. If any quality assurance problems arise, you must contact me within 24 hours via telephone or e-mail. In addition, a discussion of the problem(s) encountered, including quality assurance problems, the actions taken, and the results must be included in the final report submitted to the Agency.

The monitoring report, contractor checklist from Appendix K of the QAPP, and invoice are due within sixty (60) days from the date of this letter. Interim invoices may not be submitted for this scope of work. 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.

Bunnell-Lammons Engineering, Inc. may 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 laboratory 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 from the UST 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 UST Division 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.

If unnecessary dilutions are completed resulting in reporting limits of individual CoC in excess of RBSL, the data cannot be used. In those cases, the UST Division 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 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 RBSL, 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 RBSL.

On all correspondence regarding this directive, please reference **UST Permit #08650 and Cost Agreement #49434**. If you have any questions regarding this correspondence, please contact me by telephone at (803) 898-0671 or by e-mail to RiversMS@dhec.sc.gov.

Sincerely,

Michael Rivers, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Mr. Trevor J. Benton, P.G., Bunnell-Lammons Engineering, Inc., 6004 Ponders Court, Greenville, SC 29615 (w/ enc.)
Technical File (w/ enc.)

MR/GWSDIR02 10 15

Approved Cost Agreement 49434

Facility 08650 GEORGE SOUTHER'S GROCERY
RIVERSMS
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	4 0000	423 00	1,692 00
10 SAMPLE COLLECTION						
		A1	GROUNDWATER (PURGE)	54 0000	60 00	3,240.00
		D1	GROUNDWATER NO PURGE/DUPLICATE	3 0000	28.00	84 00
		E1	GAUGE WELL ONLY	2.0000	7.00	14.00
		H1	FIELD BLANK	3 0000	24 60	73 80
11 ANALYSES						
	GW GROUNDWATER	A2	BTEXNM+OXYGS+1,2-DCA+ETH-8260B	62.0000	122.00	7,564.00
		F1	EDB BY 8011	60 0000	45.20	2,712.00
17 DISPOSAL						
		AA	WASTEWATER	250.0000	0 56	140.00
19 RPT/PROJECT MNGT & COORDINATIO						
		PRT	REPORT PREPARATION	0.1200	15,719 80	1,886 38
25 WELL REPAIR						
		A1	ADDITIONAL COPIES OF REPORT	1 0000	50 00	50.00
				Total Amount		17,606 18

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Thursday, January 01, 1970 12:00:00 AM

Microsoft Office Word 97 - 2003 Document
C-05-02-015 Disposal Letter Addendum.doc
Thursday, January 01, 1970 12:00:00 AM

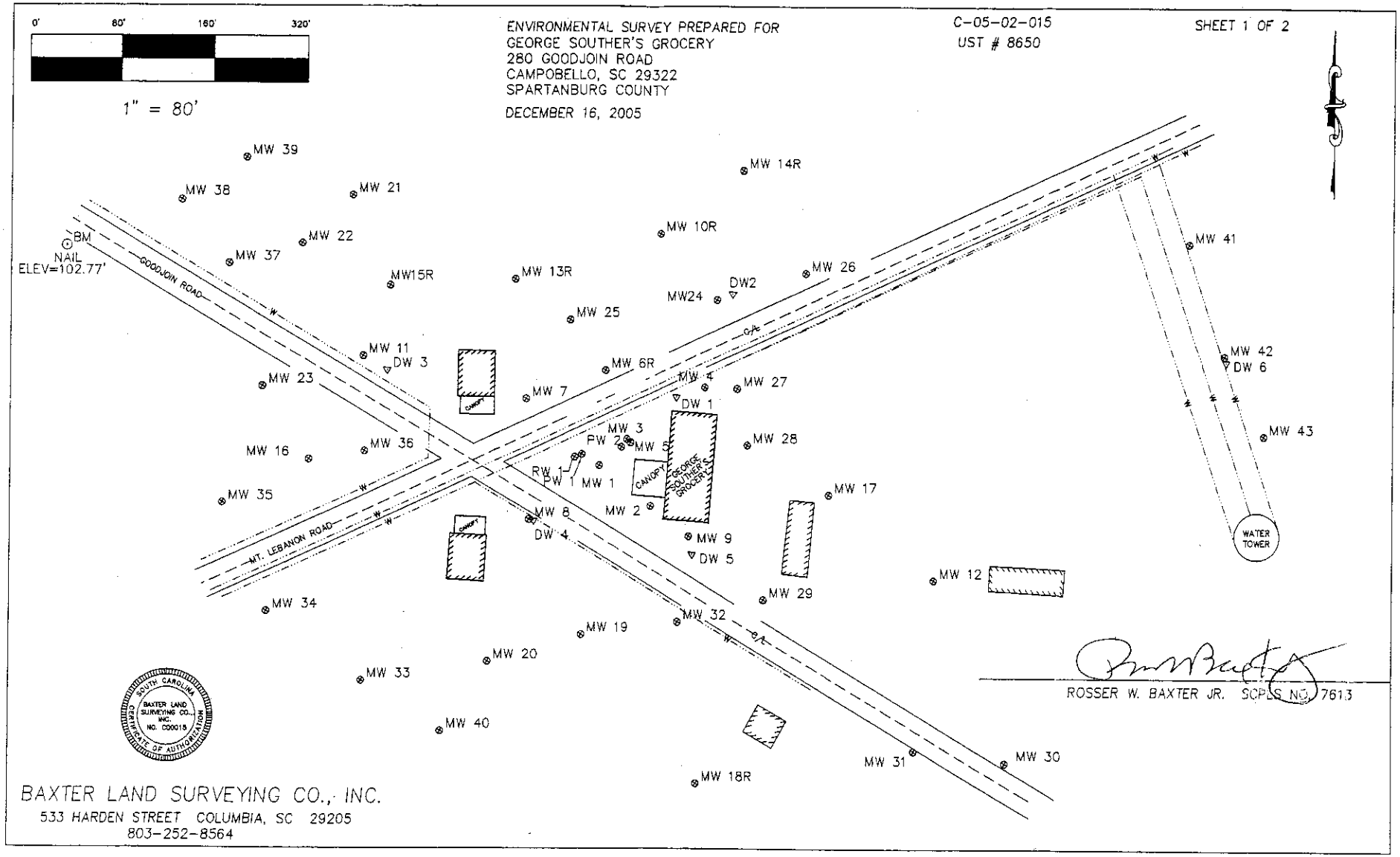
APPENDIX 1
Survey Plat

ENVIRONMENTAL SURVEY PREPARED FOR
GEORGE SOUTHER'S GROCERY
280 GOODJOIN ROAD
CAMPOBELLO, SC 29322
SPARTANBURG COUNTY

DECEMBER 16, 2005

C-05-02-015
UST # 8650

SHEET 1 OF 2



ROSSER W. BAXTER JR. SCPLS NO. 7613

BAXTER LAND SURVEYING CO., INC.
533 HARDEN STREET COLUMBIA, SC 29205
803-252-8564

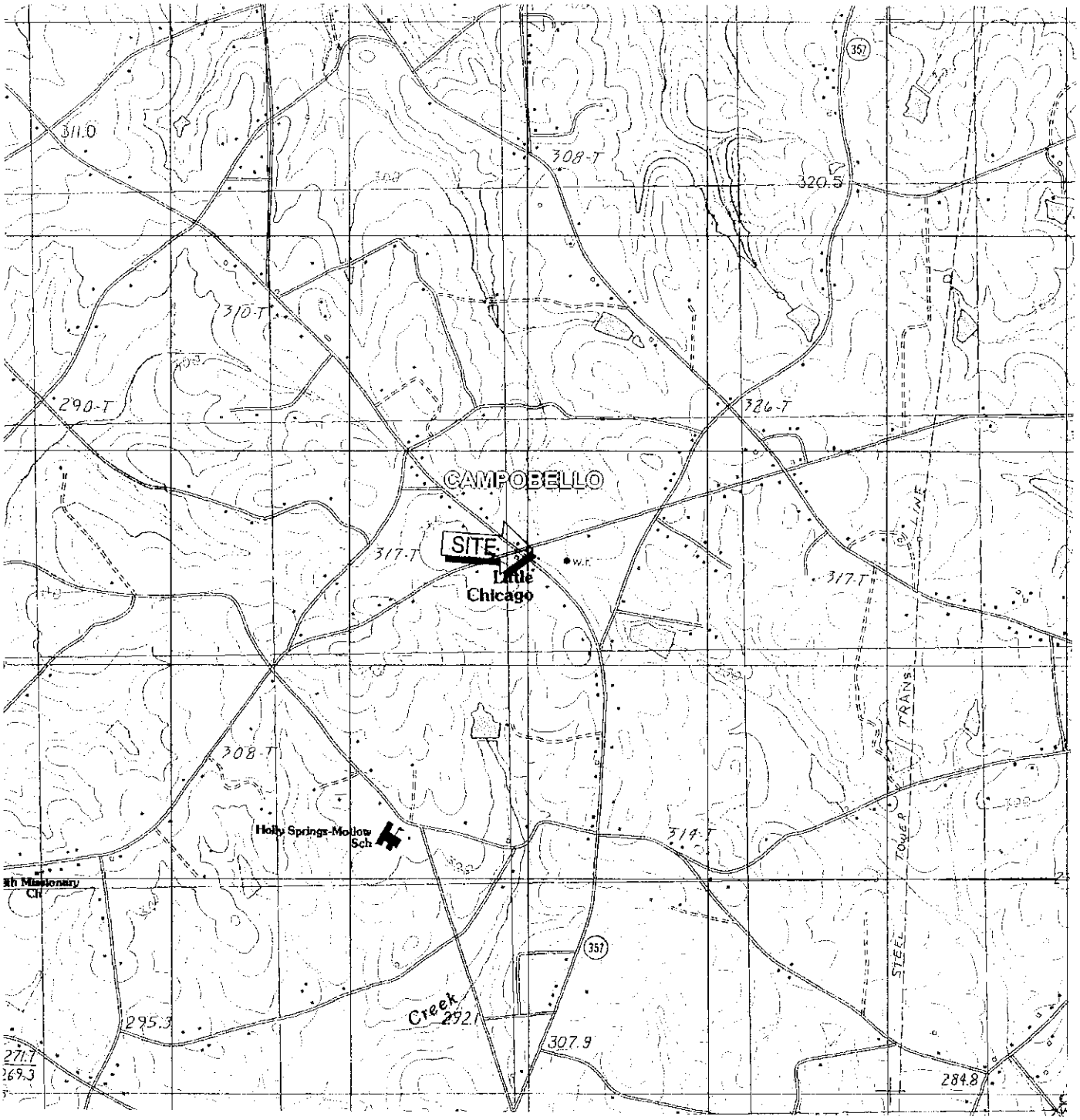
MW1	97.56'	MW20	107.20'	MW38	99.60'
MW2	99.82'	MW21	88.91'	MW39	94.98'
MW3	97.11'	MW22	93.34'	MW40	110.46'
MW4	91.48'	MW23	100.07'	MW41	102.02'
MW5	97.69'	MW24	92.02'	MW42	101.91'
MW6R	91.98'	MW25	92.81'	MW43	93.34'
MW7	100.07'	MW26	89.42'	DW1	92.89'
MW8	99.76'	MW27	91.80'	DW2	91.95'
MW9	99.82'	MW28	93.10'	DW3	101.41'
MW10R	89.88'	MW29	99.81'	DW4	99.80'
MW11	101.58'	MW30	103.50'	DW5	98.64'
MW12	95.31'	MW31	101.05'	DW6	101.86'
MW13R	93.29'	MW32	101.72'	RW1	96.62'
MW14R	85.39'	MW33	109.05'	PW1	96.59'
MW15R	91.30'	MW34	106.31'	PW2	97.77'
MW16	99.09'	MW35	105.02'		
MW17	100.26'	MW36	98.99'		
MW18R	107.22'	MW37	98.21'		
MW19	104.69'				

SOUTH CAROLINA
BAXTER LAND SURVEYING CO., INC.
NO. C00015
CERTIFICATE OF AUTHORIZATION

BAXTER LAND SURVEYING CO., INC.
533 HARDEN STREET COLUMBIA, SC 29205
803-252-8564

ROSSER W. BAXTER JR. SCPLS NO. 7613

FIGURES



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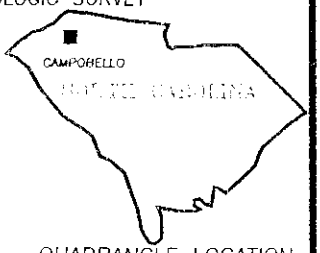
SCALE 1 : 24,000



QUADRANGLE LOCATION

DRAWN: A.C.B.	DATE: 02/25/05
SCDHEC FACILITY ID# 08650	
PROJECT: GEORGE SOUTHER GROCERY	
PROJECT No.: 05--02--015	
LOCATION: CAMPOBELLO, SOUTH CAROLINA	

FIGURE 1
SITE LOCATION MAP

CONSULTECH ENVIRONMENTAL, INC.

Environmental Consulting and Engineering
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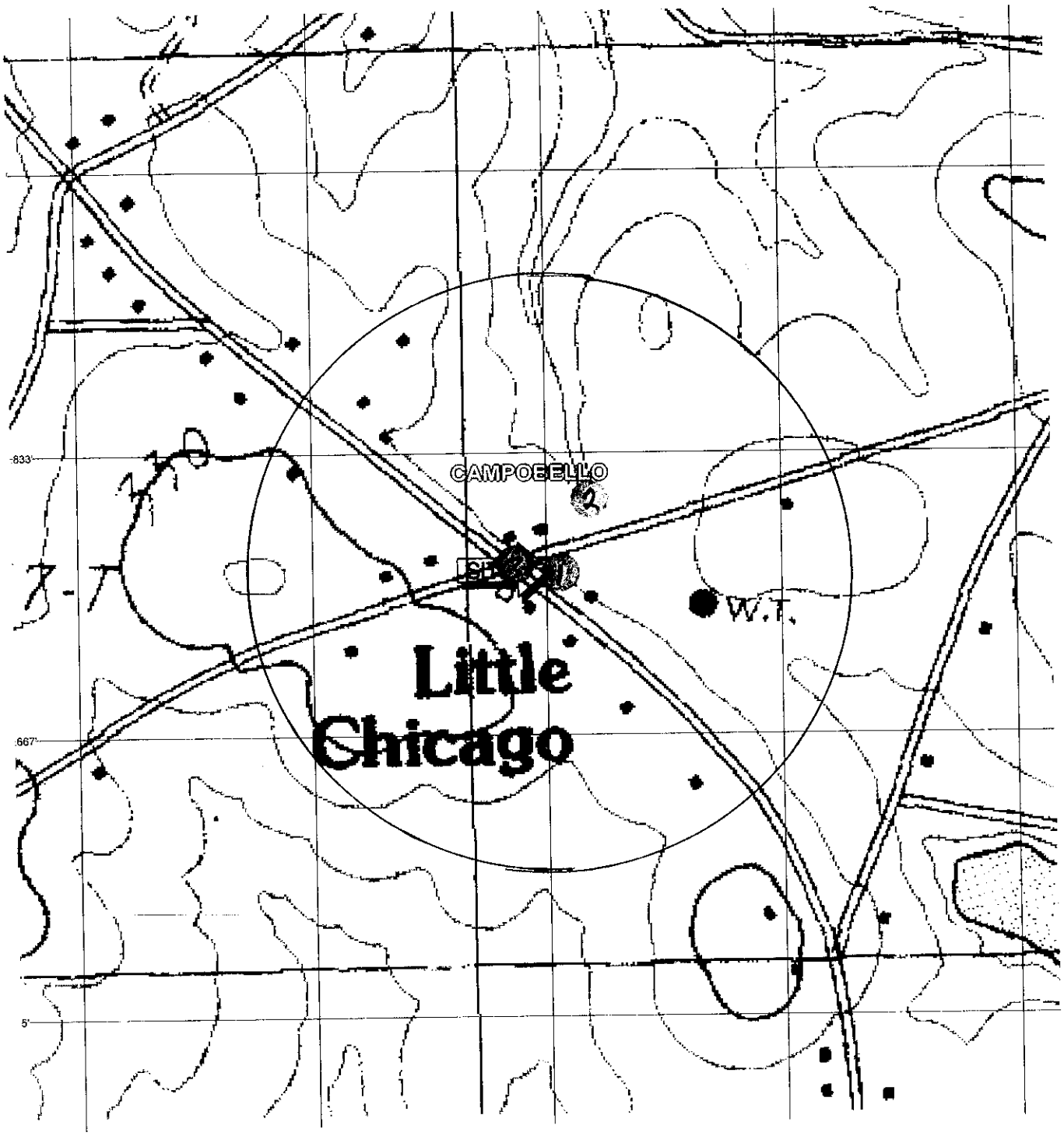
Delivering innovative solutions to today's environmental concerns



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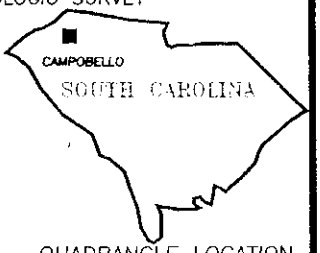


QUADRANGLE LOCATION

DRAWN: A.C.B.	DATE: 02/25/05
SCDHEC FACILITY ID# 08650	
PROJECT: GEORGE SOUTHER GROCERY	
PROJECT No.: 05-02-015	
LOCATION: CAMPOBELLO, SOUTH CAROLINA	

FIGURE 3
SITE TOPOGRAPHIC MAP
WITH POTENTIAL RECEPTORS

CONSULTECH ENVIRONMENTAL, INC.

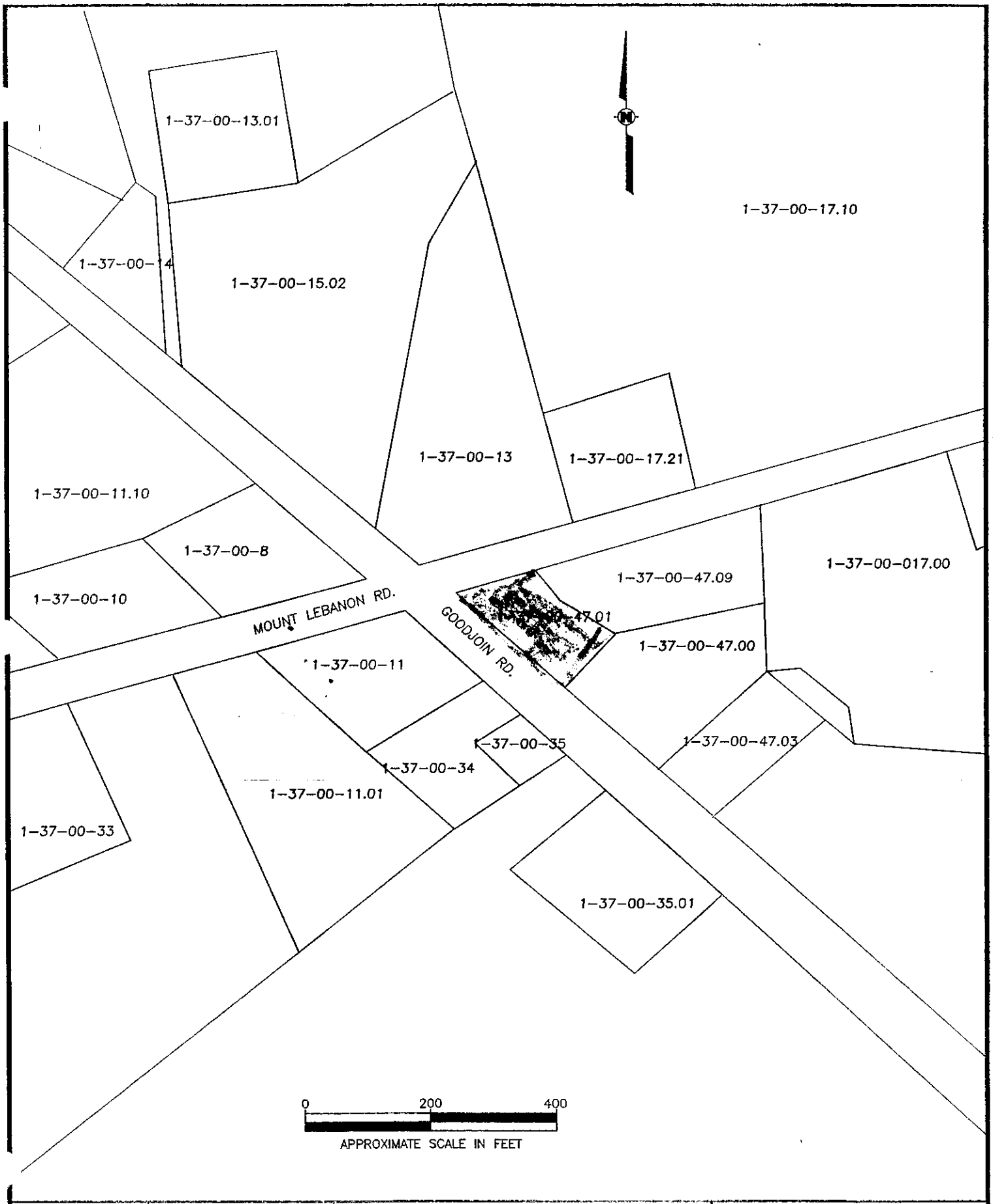
Environmental Consulting and Engineering
© 1998

Delivering innovative solutions to today's environmental concerns

APPENDIX 2
Tax Map and Surrounding Property Owners

Adjacent Property Owners
George Souther's Grocery – UST # 08650
Campobello, SC
Spartanburg County

Tax map and parcel #		Owner name and address
1-37-00-008.00		Ronnie Joe Sitton 1310 Mt. Lebanon Road Campobello, SC 29322
1-37-00-11.0		Becky Arms 143 Goodjoin Road Landrum, SC 29356 295 Goodjoin Rd. Campobello, SC 29322
1-37-00-013.00		James B. Williams, Jr. 885 Goodjoin Road Campobello, SC 29322
1-37-00-017.00		Earlene P. Lance 207 Lakewood Drive Kannapolis, NC 28081
1-37-00-017.21		Marvin E. & Alma D. Glen 1250 Mt. Lebanon Road Campobello, SC 29322
1-37-00-034.00		Annie L. Frady Wolfe 275 Goodjoin Road Campobello, SC 29322
1-37-00-035.00		Annie L. Frady Wolfe 275 Goodjoin Road Campobello, SC 29322
1-37-00-047.00		James Samuel Bruce P.O. Box 219 Lyman, SC 29365
1-37-00-047.01	**SITE**	George E. Souther 280 Goodjoin Road Campobello, SC 29322
1-37-00-011.01		Jessie C. Wright 137 Turner Barton Rd. Landrum SC 29356
1-37-00-14		Leroy Belcher 330 Goodjoin Rd.
1-37-00-11.10		Jimmy McClain 325 Goodjoin Rd.
1-37-00-17.10		Boyd Belcher 320 Goodjoin Rd.
1-37-00-10		Janice Burnett 1330 Mt. Lebanon Rd.
1-37-00-33		Helyn Sitton 1355 Mt. Lebanon Rd.
1-37-00-35.01		Carolyn Souther 195 Goodjoin Rd.
1-37-00-36.05		George Souther 135 Goodjoin Rd.
1-37-00-47.03		Frankie Bullington 190 Goodjoin Rd.
1-37-00-48.01		Piedmont Rural H2O Co. 198 Goodjoin Rd.



DRAWN: SRC	DATE: 09/06/05	ACCESS MAP	CONSULTECH ENVIRONMENTAL, INC.
UST #: 08650			Environmental Consulting and Engineering © 1999
PROJECT: GEORGE SOUTHER'S GROCERY			Delivering innovative solutions to today's environmental concerns
PROJECT No.: C-05-02-015			
LOCATION: CAMMPOBELLO, SOUTH CAROLINA			

CONSULTECH ENVIRONMENTAL, INC.

Consulting Engineers, Geologists & Scientists

PERMISSION TO ENTER PROPERTY

I, _____, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant _____, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located at _____, for the purpose of performing an environmental assessment, as requested by _____ which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed two to three years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property.

At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Kenneth L Brooke
Company/Client Representative

11/11/05
Date

Agreed and Consented to giving access:

Becky Arms
Property Owner's Signature

Access Denied:

_____
Property Owner's Signature

Becky Arms
Printed Name

Consultech Environmental, Inc.
Telephone Number (678) 377-0400
Fax Number (678) 377-0051

D H E C

ROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

BUREAU OF LAND AND WASTE MANAGEMENT
UNDERGROUND STORAGE TANK PROGRAM
2600 Bull Street
Columbia, SC 29201
Telephone (803) 896-6240

RIGHT OF ENTRY

I, JAMES B. WILLIAMS JR certify that I am the legal owner or the authorized representative for _____ (owner) of the property described below. I have witnessed the planned locations / have been provided a sketch map indicating the location(s) of the work to be performed. Permission is hereby granted to George Souther and/or the South Carolina Department of Health and Environmental Control (SCDHEC) and its agents to enter the referenced property for the following purposes:

Name of Facility (if appropriate) : JB WILLIAMS & SON

Street Address : 300 GOODJOIN RD

City, State, ZIP : CAMPOBELLO SC 29322

1) Drilling of screening points. The work will be properly abandoned upon completion, and no permanent effects shall remain on site.

2) Installing 1 monitoring / recovery well(s). I understand that these wells will remain with the property until cleanup is complete. Additionally, SCDHEC or its agents will access the property at reasonable times for measurement and/or collection of samples. The monitoring wells will be properly abandoned upon completion of remediation activities.

NAME (Please print) : JAMES B. WILLIAMS JR

SIGNATURE James B Williams Jr

WITNESS : Frances N. Williams

DATE _____ Mo 4 Day 22 Year 05

Reference UST Permit #08650

RECEIVED

APR 25 2005

UNDERGROUND STORAGE TANK PROGRAM

KMD

CONSULTECH ENVIRONMENTAL, INC.

Consulting Engineers, Geologists & Scientists

PERMISSION TO ENTER PROPERTY

I, Alma Darlene Glenn hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant **SCDHEC**, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located **Spartanburg County Tax Parcel Number 1-37-00-017.21**, for the purpose of performing an environmental assessment, as requested by **SCDHEC** which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Jessica Guthrie

Company Representative

2-22-05

Date

Consultech Environmental, Inc.
Telephone Number (678) 377-0400
Fax Number (678) 377-0051

Agreed and Consented to giving access:

A Darlene Glenn

Property Owner's Signature

A. Darlene Glenn

Printed Name

Access Denied:

Property Owner's Signature

Printed Name

CONSULTECH ENVIRONMENTAL, INC.

PERMISSION TO ENTER PROPERTY

I, Earlene P. Adams, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant **SCDHEC**, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located **Spartanburg County Tax Parcel Number 1-37-00-017.00**, for the purpose of performing an environmental assessment, as requested by **SCDHEC** which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Carey Evans
Company Representative

4-12-05
Date

Consultech Environmental, Inc.
Telephone Number (678) 377-0400
Fax Number (678) 377-0051

Agreed and Consented to giving access:

Earlene P. Adams
Property Owner's Signature

Earlene P. Adams
Printed Name

Access Denied:

_____
Property Owner's Signature

_____
Printed Name

1800 MacLeod Drive, Suite F * Lawrenceville, GA 30043-5376
678 377-0400 * FAX 678 377-0051

D H E C

PROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

RECEIVED

MAY 0 2 2005

UNDERGROUND STORAGE TANK PROGRAM

BUREAU OF LAND AND WASTE MANAGEMENT
UNDERGROUND STORAGE TANK PROGRAM
2600 Bull Street
Columbia, SC 29201
Telephone (803) 896-6240

RECEIVED

MAY 0 6 2005

UNDERGROUND STORAGE TANK PROGRAM

RIGHT OF ENTRY

I, Tina Wolfe certify that I am the ~~legal owner~~ or the authorized representative for Annie L. Fredy Wolfe (owner) of the property described below. I have witnessed the planned locations / have been provided a sketch map indicating the location(s) of the work to be performed. Permission is hereby granted to George Souther and/or the South Carolina Department of Health and Environmental Control (SCDHEC) and its agents to enter the referenced property for the following purposes:

Name of Facility (if appropriate) : Residence

Street Address : 275 Goodjoin Rd.

City, State, ZIP : Campobello, S.C. 29322

1) Drilling of screening points. The work will be properly abandoned upon completion, and no permanent effects shall remain on site.

2) Installing _____ monitoring / recovery well(s). I understand that these wells will remain with the property until cleanup is complete. Additionally, SCDHEC or its agents will access the property at reasonable times for measurement and/or collection of samples. The monitoring wells will be properly abandoned upon completion of remediation activities.

NAME (Please print) : Tina Wolfe

SIGNATURE : Tina Wolfe

WITNESS : _____

DATE : 5 Mo 04 Day 2005 Year

Reference UST Permit #08650

C15

KMD

CONSULTECH ENVIRONMENTAL, INC.

Consulting Engineers, Geologists & Scientists

PERMISSION TO ENTER PROPERTY

I, S. BRUCE JAMES, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant **SCDHEC**, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located **Spartanburg County Tax Parcel Number 1-37-00-047.00**, for the purpose of performing an environmental assessment, as requested by **SCDHEC** which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Jessica Guthrie

Company Representative

2-22-05

Date

Consultech Environmental, Inc.
Telephone Number (678) 377-0400
Fax Number (678) 377-0051

Agreed and Consented to giving access:

S Bruce James

Property Owner's Signature

S. BRUCE JAMES

Printed Name

Access Denied:

Property Owner's Signature

Printed Name

CONSULTECH ENVIRONMENTAL, INC.

Consulting Engineers, Geologists & Scientists

PERMISSION TO ENTER PROPERTY

I, _____, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant **SCDHEC**, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located **Spartanburg County Tax Parcel Number 1-37-00-047.01**, for the purpose of performing an environmental assessment, as requested by **SCDHEC** which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

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This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Jessica Guthrie
Company Representative

2-22-05
Date

Consultech Environmental, Inc.
Telephone Number (678) 377-0400
Fax Number (678) 377-0051

Agreed and Consented to giving access:

George E. Southern
Property Owner's Signature

George E. Southern
Printed Name

Access Denied:

_____
Property Owner's Signature

_____
Printed Name

CONSULTECH ENVIRONMENTAL, INC.

PERMISSION TO ENTER PROPERTY

D.P.O.A. Brenda A Cox

I, Mrs. Jessie C. Wright, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant **SCDHEC**, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located **Spartanburg County Tax Parcel Number 1-37-00-011.01** for the purpose of performing an environmental assessment, as requested by **SCDHEC** which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Carey Evans
Company Representative

7-27-05
Date

Consultech Environmental, Inc.
Telephone Number (678) 377-0400
Fax Number (678) 377-0051
C-015

08-02-05

Agreed and Consented to giving access:

Jessie C. Wright D.P.O.A. Brenda A Cox
Property Owner's Signature

JESSIE C. WRIGHT By Brenda A Cox
Printed Name

(864) 895-5795

Access Denied:

Property Owner's Signature

Printed Name

CONSULTECH ENVIRONMENTAL, INC.

PERMISSION TO ENTER PROPERTY

I, Boyd Belcher, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant **SCDHEC**, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located **Spartanburg County Tax Parcel Number 1-37-00-17.10, 1-37-00-15.02, 1-37-00-13.01**, for the purpose of performing an environmental assessment, as requested by **SCDHEC** which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Carey Evans
Company Representative

9-9-05
Date

Consultech Environmental, Inc.
Telephone Number (678) 377-0400
Fax Number (678) 377-0051
C-015

Agreed and Consented to giving access:

Boyd Belcher
Property Owner's Signature

BOYD BELCHER
Printed Name

Access Denied:

Property Owner's Signature

Printed Name

CONSULTECH ENVIRONMENTAL, INC.

PERMISSION TO ENTER PROPERTY

I, _____, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant **SCDHEC**, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located **Spartanburg County Tax Parcel Number 1-37-00-35.01**, for the purpose of performing an environmental assessment, as requested by **SCDHEC** which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about vork performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Carey Evans
Company Representative

9-9-05
Date

Consultech Environmental, Inc.
Telephone Number (678) 377-0400
Fax Number (678) 377-0051
C-015

Agreed and Consented to giving access:

Carolyn Scrather
Property Owner's Signature

Carolyn Scrather
Printed Name

Access Denied:

_____
Property Owner's Signature

_____
Printed Name

APPENDIX 3
Soil Boring Logs and Monitoring Well Construction Details

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-18	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 1-Feb-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 35'
DRILLING COMPANY: Bear Environmental	BORING: GW-18
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 35'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5						
10						
15						
20						
25						
30						
35						DPT groundwater sample collected - no soil samples collected
40						
						H2O 35'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-19	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 1-Feb-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: GW-19
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 30'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5						
10						
15						
20						
25						
30						DPT groundwater sample collected - no soil samples collected
35						
40						
						H2O 30'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-20	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 1-Feb-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: GW-20
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 30'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5						
10						
15						
20						
25						
30						DPT groundwater sample collected - no soil samples collected
35						
40						H2O 30'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-21	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 1-Feb-06	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: GW-21
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 30'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5					
10					
15					
20					
25					
30					DPT groundwater sample collected - no soil samples collected
35					
40					
					H2O 30'

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: SCDHEC

Address: 2600 Bull Street

City: Columbia State: SC Zip: 29201-1708

Telephone: Work: (803) 898-4300 Home:

2. LOCATION OF WELL: MW-34 **COUNTY: Spartanburg**
Name: George Souther's Grocery

Street Address: 280 Goodjoin Road
City: Campobello, SC Zip: 29322

Latitude: 35° 03' 46" Longitude: 82° 10' 59"

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
Red to brown Silty Sand	6	6
Red to brown Sand	6	12
Basement Rock	28	40
* Indicate Water Bearing Zones		
Use a 2nd sheet if needed		

5. REMARKS:

6. PERMIT NUMBER: UMW -19055 MW-34

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

8. WELL DEPTH (completed) Date Started: 12/08/05

40 ft Date Completed: 12/08/05

9. TYPE [ ] Mud Rotary [ ] Jetted [ ] Bored
[ ] Dug [X] Air Rotary [ ] Driven
[ ] Cable Tool [ ] Hollow Stem Auger

10. CASING: [X]Threaded [ ] Welded
Diam.: 2"
Type: [X] PVC [ ] Galvanized
[ ] Steel [ ] Other
2" 0 in. to 25 ft depth
____ in. to ____ ft depth

Height: Above/Below
Surface Flush ft
Weight____ lb/ft
Drive Shoe? [ ] Yes [ ] No

11. SCREEN
Type PVC Diam.: 2"
Slot/Gauge: 0.010 Length: 15 ft
Set Between: 25 ft and 40 ft **NOTE: MULTIPLE SCREENS**
____ ft and ____ ft **USE SECOND SHEET**

Sieve Analysis [ ] Yes (please enclose) [ ] No

12. STATIC WATER LEVEL Dry ft below land surface after 24 hrs

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. ARTIFICAL FILTER (filter pack) [X] Yes [ ] No
Installed from 23 ft. to 40 ft
Effective size 20/30 Uniformity

16. WELL GROUTED? [X] Yes [ ] No
[ ] Neat Cement [ ] Bentonite [X] Bentonite/Cement [ ] Other ____
Depth: From 0 ft to 23

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: James Wilson CERT. NO: 1612
Address: 1800 MacLeod Dr. Ste F, Lawrenceville, GA 30043
Telephone No.: 678 377 0400 Fax No.: 678 377 0051

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

Signed: ____ Date: 12/19/05
Authorized Representative

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: S C D.H.E.C. (last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: 803-898-4300 Home: N/A

2. LOCATION OF WELL: **COUNTY:** Spartanburg
Name: George Souther's Grocery
Street Address: 280 Goodjoin Road
City: Campobello Zip: 29322
Latitude: 35*03.715 Longitude: 082*11.023'

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	.05	.05
Topsoil	.05	1'
Red Sandy Clay	15'	16'
*Brown Sandy Clay	21'	35'
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW #44

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

7. PERMIT NUMBER: UMJ-19727

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

9. Well Depth (completed) Date Started (MM/DD/YYYY): 04/05/2006
35' ft. Date Completed (MM/DD/YYYY): 04/05/2006

10. CASING: ☒ Threaded ☐ Welded
Diam: 2 inches Height Above ☐ Below ☒
Type: ☒ PVC ☐ Galvanized Surface .05 ft
☐ Steel ☐ Other Weight ____ lb/ft
-.05 in. to 20 ft. depth Drive Shoe? ☐ Yes ☐ No
____ in. to ____ ft. depth

11. SCREEN:
Type: PVC Diam.: 2 in.
Slot/Gauge: .010 Length: 15 ft
Set Between: 20 ft. and 35 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 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 18 ft. to 35 ft.
Effective size #3 Uniformity Coefficient ____

16. WELL GROUTED? ☒ Yes ☐ No
☒ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other ____
Depth: From 0' ft. to 16 ft.

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

18. PUMP: Date installed (mm/dd/yyyy): ____ 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: CERT. NO. 01676
Name: Wesley W. Herman Level A B C D
☐ ☒ ☐ ☐ (check one)
Address: 324 Fields Drive, Suite C City: Aberdeen
State: North Carolina Zip: 28315
Telephone No.: 910-944-3140 Fax: 910-944-3150

20. WATER 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: 04/10/2006
Well Driller (MM/DD/YYYY)

DHEC 1903 (07/2003) **COPY 1 MAIL TO: S.C. DEPARMENT 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: S C D.H.E.C. (last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip: 29201-1708
Telephone: Work: 803-898-4300 Home: N/A

2. LOCATION OF WELL: **COUNTY: Spartanburg**
Name: George Souther's Grocery
Street Address: 280 Goodjoin Road
City: Campobello Zip: 29322
Latitude: 35*03.699 Longitude: 082*10.912'

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	.05	.05
Topsoil	.05	1'
Red Sandy Clay	18'	19'
*Brown Sandy Clay	11'	30'
*Indicate Water Bearing Zones (Use a 2nd sheet if needed)		

5. REMARKS:
MW #45

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

7. PERMIT NUMBER: UMJ-19727

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

9. Well Depth (completed) Date Started (MM/DD/YYYY): 04/05/2006
30' ft. Date Completed (MM/DD/YYYY): 04/05/2006

10. CASING: ☒ Threaded ☐ Welded
Diam: 2 inches Height Above ☐ Below ☒
Type: ☒ PVC ☐ Galvanized Surface .05 ft
☐ Steel ☐ Other Weight lb/ft
-.05 in. to 15 ft. depth Drive Shoe? ☐ Yes ☐ No
in. to ft. depth

11. SCREEN:
Type: PVC Diam.: 2 in.
Slot/Gauge: .010 Length: 15 ft.
Set Between: 15 ft. and 30 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 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 30 ft
Effective size #3 Uniformity Coefficient

16. WELL GROUTED? ☒ Yes ☐ No
☒ Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
Depth: From 0' ft. to 11 ft.

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

18. PUMP: Date installed (mm/dd/yyyy): 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: CERT. NO.: 01676
Name: Wesley W. Herman Level: A B C D
☐ ☒ ☐ ☐ (check one)
Address: 324 Fields Drive, Suite C City: Aberdeen
State: North Carolina Zip: 28315
Telephone No.: 910-944-3140 Fax: 910-944-3150

20. WATER 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: 04/10/2006 (MM/DD/YYYY)

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

APPENDIX 4
Field Data

GROUNDWATER ELEVATION DATA

PROJECT NAME: Souther's Grocery
DATE: 12//05 & 4/06 RECORDED BY: Drew Miller

CONSULTECH PROJECT NO.: 05-02-015
MEASURING DEVICE: Oil/Water Interface Probe

WELL NO.	DATE	TIME	DEPTH TO GROUND WATER	DEPTH to FREE PRODUCT	pH	TEMP	CONDUCTIVITY	DISSOLVED OXYGEN
MW-1	12/12/05	1000	14.58		5.3	18.2	105	2.1
MW-2	12/12/05	dry	DRY	DRY	DRY	DRY	DRY	DRY
MW-3	12/12/05	1030	15.65		7.1	19.3	85	1.9
MW-4	12/12/05	1045	10.61		5.1	18.3	113	2.6
MW-5	12/12/05	1100	12.23	11.90	FP	FP	FP	FP
MW-6R	12/13/05	1115	11.18		5.1	19.1	129	3.7
MW-7	12/14/05	930	13.40	sheen	4.8	18.6	193	0.9
MW-8	12/12/05	1145	17.86	17.60	FP	FP	FP	FP
MW-9	12/12/05	1000	19.03		5.3	19.2	123	1.4
MW-10R	12/12/05	1300	5.45		5.8	18.4	65	4.2
MW-11	12/12/05	1215	14.69	Sheen	4.8	18.9	136	3.7
MW-12	12/13/05	1245	15.93		5.6	19.3	229	4.0
MW-13R	12/12/05	1430	9.82		4.8	19.6	78	2.8
MW-15R	12/14/05	1000	7.70		6.9	20.1	341	3.7
MW-16	12/12/05	1215	16.67		5.9	20.0	169	4.2
MW-17	12/12/05	1245	13.16		5.4	19.2	29	3.6
MW-18R	12/12/05	1500	26.89		4.7	18.7	143	3.5
MW-19	12/12/05	1100	23.27		4.7	21.1	433	4.3
MW-20	12/12/05	1030	25.29		5.5	20.2	456	2.9

Measured from top of riser unless otherwise noted.
Collected depth to water/product measurements prior to initiating well development activities.

GROUNDWATER ELEVATION DATA

PROJECT NAME: George Souther's Grocery
CONSULTECH PROJECT NO.: 05-02-015
DATE: 12//05 & 4/06 RECORDED BY: Drew Miller
MEASURING DEVICE: Oil/Water Interface Probe

WELL NO.	DATE	TIME	DEPTH TO GROUND-WATER	DEPTH to FREE PRODUCT	pH	TEMP	CONDUCTIVITY	DISSOLVED OXYGEN
MW-21	12/12/05	830	6.26		5.3	19.8	255	3.6
MW-22	12/12/05	900	8.37		5.5	20.2	94	3.2
MW-23	12/12/05	1200	16.70		4.7	19.6	103	3.0
MW-24	12/12/05	1230	7.03		6.1	19.6	301	4.1
MW-25	12/12/05	1245	7.99		4.7	19.2	86	2.8
MW-26	12/13/05	1100	7.54		5.9	19.9	91	3.8
MW-27	12/13/05	1530	11.24		5.2	18.3	143	3.4
MW-28	12/13/05	1600	12.61		5.8	18.1	469	3.6
MW-29	12/13/05	930	21.34		5.3	19.2	119	3.2
MW-30	12/13/05	930	26.40		5.5	19.6	220	3.0
MW-31	12/13/05	900	23.01		6.0	18.1	86	2.3
MW-32	12/13/05	900	21.34		6.4	18.4	94	3.1
MW-33	12/13/05	1200	34.72		7.0	19.1	131	3.6
MW-34	12/13/05	dry	DRY	DRY	7.4	DRY	DRY	DRY
MW-34	04/05/06	1300	26.06		5.8	18.6	79	2.8
MW-35	12/13/05	1200	21.04		6.3	18.0	69	3.3
MW-36	12/13/05	1000	15.65		6.1	17.5	125	3.0
MW-37	12/14/05	1130	14.50		5.9	18.4	211	2.9
MW-38	12/14/05	1030	16.51		6.4	17.9	106	2.9

GROUNDWATER ELEVATION DATA

PROJECT NAME: George Souther's Grocery
CONSULTECH PROJECT NO.: 05-02-015
DATE: 12//05 & 4/06 RECORDED BY: Drew Miller
MEASURING DEVICE: Oil/Water Interface Probe

WELL NO.	DATE	TIME	DEPTH TO GROUND-WATER	DEPTH to FREE PRODUCT	PH	TEMP	CONDUCTIVITY	DISSOLVED OXYGEN
MW-39	12/14/05	1100	12.06		7.1	18.3	113	3.1
MW-40	12/14/05	1215	34.80		4.5	18.6	162	3.4
MW-41	12/14/05	1230	34.80		6.1	20.1	168	3.8
MW-42	12/14/05	1300	34.41		5.2	18.1	303	3.9
MW-43	12/14/05	1330	27.22		4.7	18.7	121	2.4
MW-44	4/05/06	1230	33.31		6.4	18.2	74	3.7
MW-45	4/05/06	1200	27.92		6.8	19.0	113	3.2
DW-1	12/14/05	1400	20.21		6.3	18.3	93	2.8
DW-2	12/14/05	1330	13.03		7.2	17.9	44	3.0
DW-3	12/14/05	900	22.64		7.4	19.4	110	2.6
DW-4	12/14/05	1200	32.12		6.7	19.3	234	3.6
DW-5	12/14/05	1000	28.41		7.0	18.2	245	2.4
DW-6	12/14/05	1230	43.52		6.3	17.8	62	3.0
RW-1	12/14/05	1130	14.97		4.9	18.1	93	2.1
PW-1	12/14/05	1145	14.78		4.7	18.3	328	1.7
PW-2	12/14/05	1100	16.16		8.1	17.9	174	3.0

Measured from top of riser unless otherwise noted.
Collected depth to water/product measurements prior to initiating well development activities.

UTILITY FORMAT AND POTENTIAL RECEPTOR FORMAT

Receptor Analysis

Describe all potential receptors and preferential pathways within a 1000-foot radius of the site

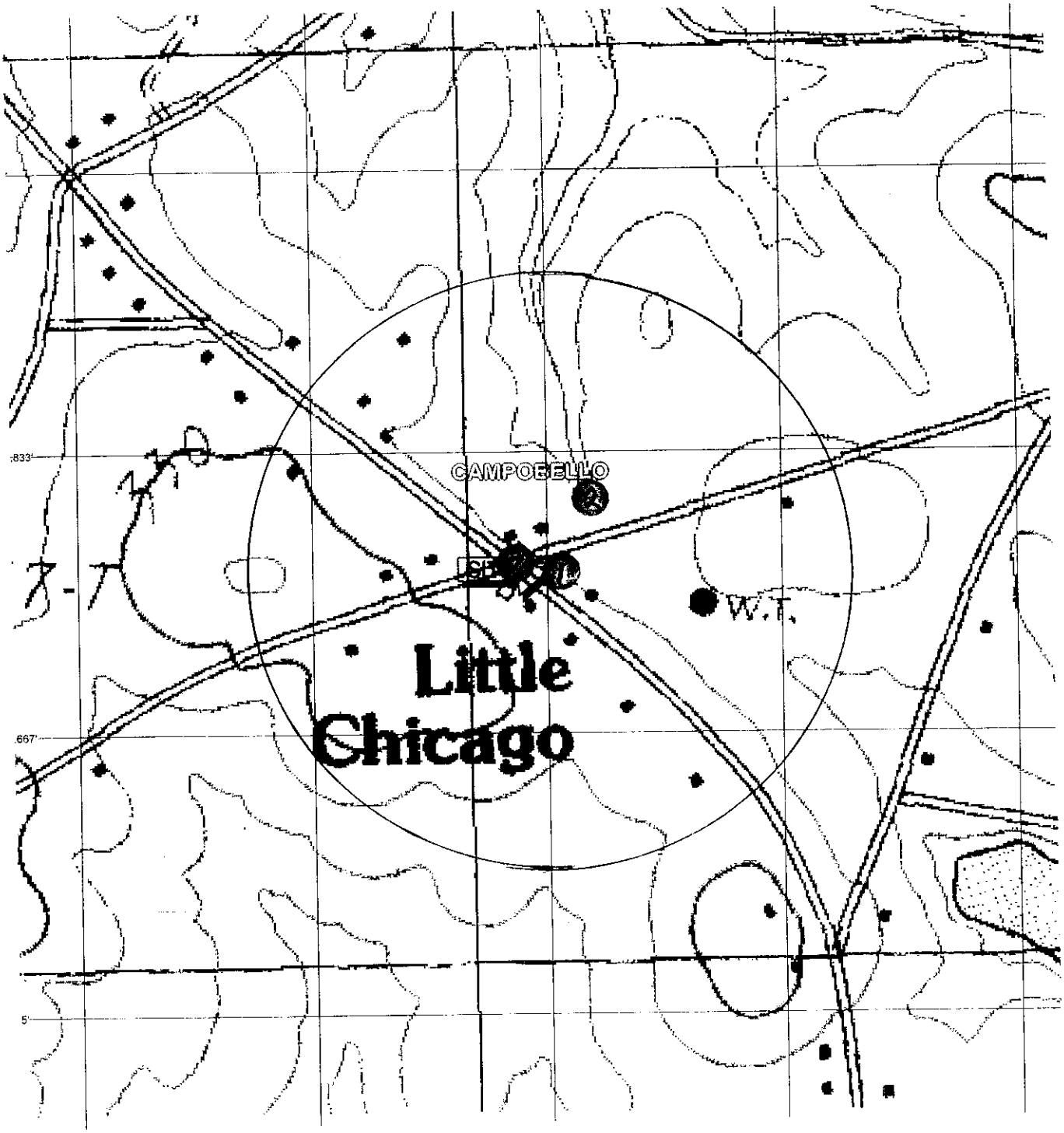
Description of Receptor	Distance/Direction from Site
1) WSW-1	On site
1) Tributary of Motlow Creek	250 feet Northeast

Utilities Survey

List the utilities on site, and adjacent to the site within a 250-foot radius, that could serve as exposure points or as preferential pathways

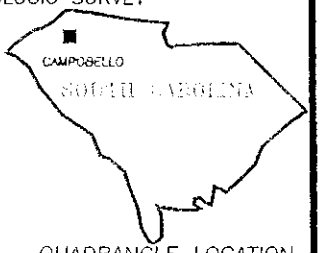
Utility	On-site or Distance/Direction from site	Depth to Utility
2.) Water	Water lines run on the south side of Mt. Lebanon and Goodjoin roads and on the south side of Goodjoin road and on the north side of these roads west of the intersection in the easement.	2-5 Feet
2.) Fiber optic/ Telephone	Telephone lines run on the south side of Goodjoin road and on the north side of Mt. Lebanon road west of the intersection in the easement.	2-5 Feet
2.) Septic systems	Septic systems are behind all residences and businesses in the area.	2-5 Feet

Example format taken from DHEC 3542(07/1999)



REFERENCE: CAMPOBELLO, SOUTH CAROLINA QUADRANGLE MAP, 7.5 MINUTE SERIES, U.S. GEOLOGIC SURVEY

SCALE 1 : 6,400



QUADRANGLE LOCATION

DRAWN: A.C.B.	DATE: 02/25/05
SCDHEC FACILITY ID# 08650	
PROJECT: GEORGE SOUTHER GROCERY	
PROJECT No.: 05-02-015	
LOCATION: CAMPOBELLO, SOUTH CAROLINA	

FIGURE 3
SITE TOPOGRAPHIC MAP
WITH POTENTIAL RECEPTORS

CONSULTECH ENVIRONMENTAL, INC.

Environmental Consulting and Engineering
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Delivering innovative solutions to today's environmental concerns

APPENDIX 5
Laboratory Analytical Results

39064

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

CHAIN OF CUSTODY

Company Name: Consultech
Address: 1800 Mashud Suite F LVille, GA
Report Sent to: (Client Contact): Jim Wilson
Contact Phone # 678-377-0400 Fax # 678-377-0051
Project Name: George Southern Grocery
Project Number: 05-02-015

Billing address:
Client P.O. #

For Laboratory Use Only: AAL LIMS SYS. ID: 14659
Custody Seal(s): Y N TAPE Page 1 Of 1
QC Level: 1 2 3 4 CLP Init/Temp:
Sample Condition: AAL Work Order #: 9779

Samplers: (signature)
Samplers: (printed)

Line No.	Sample ID #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Sample Location:	No. of Containers	ANALYSIS: EDB - 8011	Remarks	AAL SampleID: 9779
1	GW-18	2/1/06 1630		✓				2	2		001
2	19	1745		X	W			2	✓		2
3	20	0800		X					✓		3
4	21	0930		X					✓		4
5											
6											
7											
8											
9											
10											

BTB 02/06

1) Relinquished By: [signature] Date / Time 2/2/06
2) Received By: Fed Ex Date / Time
3) Relinquished By: FedEx Date / Time 02/06/0000
4) Received By: [signature] Date / Time 2/3/06 0920

Delivered by: (Circle One) FedEX UPS Hand Other
Turnaround Time Requested: 100% RUSH

(DW = Drinking Water) (GW = Groundwater) (SW = Surface Water) (L = Liquid) (O = Oil) (S = Soil) (SD = Solid) (SL = Sludge) (A = Air Sample) (C = Cartridge)

COC-2002 xls, Revised 8/9/02

Certificate of Analytical Results 9779

Consultech Environmental, Inc., Lawrenceville, GA

George Souther's Grocery

Sample Id: **GW-18** Matrix: **WATER** % Moisture:
Lab Sample Id: **9779-001** Date Collected: **Feb-01-06 16:30** Date Received: **Feb-03-06 09:20**
Sample Depth:

Analytical Method: EDB by SW8011 Prep Method: EXT_SW8011
Date Analyzed: Feb-06-06 13:03 Analyst: MJL01 Date Prep: Feb-03-06 16:00 Tech: BPR01
Seq Number: 30452

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.19	0.018	0.0044	ug/L		1

Sample Id: **GW-19** Matrix: **WATER** % Moisture:
Lab Sample Id: **9779-002** Date Collected: **Feb-01-06 17:45** Date Received: **Feb-03-06 09:20**
Sample Depth:

Analytical Method: EDB by SW8011 Prep Method: EXT_SW8011
Date Analyzed: Feb-06-06 13:21 Analyst: MJL01 Date Prep: Feb-03-06 16:00 Tech: BPR01
Seq Number: 30452

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.18	0.018	0.0045	ug/L		1

Sample Id: **GW-20** Matrix: **WATER** % Moisture:
Lab Sample Id: **9779-003** Date Collected: **Feb-01-06 08:00** Date Received: **Feb-03-06 09:20**
Sample Depth:

Analytical Method: EDB by SW8011 Prep Method: EXT_SW8011
Date Analyzed: Feb-06-06 13:39 Analyst: MJL01 Date Prep: Feb-03-06 16:00 Tech: BPR01
Seq Number: 30452

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.098	0.018	0.0045	ug/L		1

Sample Id: **GW-21** Matrix: **WATER** % Moisture:
Lab Sample Id: **9779-004** Date Collected: **Feb-01-06 09:30** Date Received: **Feb-03-06 09:20**
Sample Depth:

Analytical Method: EDB by SW8011 Prep Method: EXT_SW8011
Date Analyzed: Feb-06-06 13:56 Analyst: MJL01 Date Prep: Feb-03-06 16:00 Tech: BPR01
Seq Number: 30452

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	0.051	0.019	0.0047	ug/L		1

*

Version: 1.000

Certificate of Analytical Results 9779

Consultech Environmental, Inc., Lawrenceville, GA

George Souther's Grocery

Sample Id: **28739 BLK**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **28739 BLK**	Date Collected:	Date Received:
Sample Depth:		

Analytical Method: EDB by SW8011 Prep Method: EXT_SW8011

Date Analyzed: Feb-06-06 12:10 Analyst: MJL01 Seq Number: 30452 Date Prep: Feb-03-06 16:00 Tech: BPR01

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.020	0.0049	ug/L		1

*

Version: 1.000

Form 2 - Surrogate Recoveries

Project Name: George Souther's Grocery

Report Date: 02/06/06 17:45

Work Order #: 9779

Project ID: 05-02-015

Lab Batch #: 30452 **Sample:** 28739 BLK / BLK **Batch:** 1 **Matrix:** W

Units: ug/L

SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.7	5.0	114	60-140	

Lab Batch #: 30452 **Sample:** 28739 BLK / BLK **Batch:** 1 **Matrix:** W

Units: ug/L

SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	6.9	5.0	138	60-140	

Lab Batch #: 30452 **Sample:** 9779-001 / SMP **Batch:** 1 **Matrix:** W

Units: ug/L

SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.3	4.5	118	60-140	

Lab Batch #: 30452 **Sample:** 9779-001 / SMP **Batch:** 1 **Matrix:** W

Units: ug/L

SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.5	4.5	122	60-140	

Lab Batch #: 30452 **Sample:** 9779-002 / SMP **Batch:** 1 **Matrix:** W

Units: ug/L

SURROGATE RECOVERY STUDY

EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	3.6	4.6	78	60-140	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Labortatory QC limits

Version: 1.%

Form 2 - Surrogate Recoveries

Project Name: George Souther's Grocery

Report Date: 02/06/06 17:45

Work Order #: 9779

Project ID: 05-02-015

Lab Batch #: 30452 **Sample:** 9779-002 / SMP **Batch:** 1 **Matrix:** W

Units: ug/L

EDB / DBCP by SW8011 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	4.0	4.6	87	60-140	

Lab Batch #: 30452 **Sample:** 9779-003 / SMP **Batch:** 1 **Matrix:** W

Units: ug/L

EDB / DBCP by SW8011 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.3	4.6	115	60-140	

Lab Batch #: 30452 **Sample:** 9779-003 / SMP **Batch:** 1 **Matrix:** W

Units: ug/L

EDB / DBCP by SW8011 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	4.8	4.6	104	60-140	

Lab Batch #: 30452 **Sample:** 9779-004 / SMP **Batch:** 1 **Matrix:** W

Units: ug/L

EDB / DBCP by SW8011 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.7	4.8	119	60-140	

Lab Batch #: 30452 **Sample:** 9779-004 / SMP **Batch:** 1 **Matrix:** W

Units: ug/L

EDB / DBCP by SW8011 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	6.3	4.8	131	60-140	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Labortatory QC limits

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ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

CHAIN OF CUSTODY

Company Name: Consultech Environmental
Address: 1800 Mackeod Dr. Suite F.
Results Sent to: (Client Contact): Jim Wilson
Email address:
Contact Phone #: 678 377 0400 Fax#:
Project (Site) Name: George Southern Grocery
Project Number: C-05-02-015

Billing address:
P.O.# (if required):

For Laboratory Use Only:
QC Level (1) 2 3 4 CLP-Like
Custody Seal(s): Y (N) Tape

AAL LIMS System ID: 14638
Receiver's Initials/Temp: —
AAL Work Order # 10145

Preservation Code: (See below)

Sampler(s): (signature) Drew Miller

Sampler(s): (printed) Drew Miller

Line No.	Sample ID #	Sample Date / Time	Composite	Grab	Matrix (See below)	Sample Location	No. of Containers	BTEX MtBE Naph 1,2DCA 8260B	EDB 8011	Total lead								Field Comments:	AAL Lab ID: 10145
1	MW 34	4/5/06 1300		X	GW	Campbell Co SC	6	↓	↓	↓									-001
2	MW 44	4/5/06 1230		X	GW	↓	6	↓	↓	↓									-002
3	MW 45	4/5/06 1200		X	GW	↓	6	↓	↓	↓									-003
4																			-
5																			-
6																			-
7																			-
8																			-
9																			-
10																			-

1) Relinquished By:	Date / Time	2) Received By:	Date / Time	Delivered by: (Circle One)
Drew Miller	4/6/06 950	[signature]	4/6/05 0950	Fed Ex / UPS / DHL / AAL Pickup / (Hand) Other
3) Relinquished By:	Date / Time	4) Received By:	Date / Time	Turnaround Time Requested: Standard

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)

Preservation Codes: 1=HCL / 2=HNO_3 / 3=H_2SO_4 / 4=NaOH+$NaAsO_2$ / 5=NaOH+ZnAc / 6=$Na_2S_2O_3$ / 7=$NaHSO_4$ / 8=MeOH

Certificate of Analytical Results 10145

Consultech Environmental, Inc., Lawrenceville, GA

George Southers Grocery

Sample Id: **MW 34**	Matrix: **WATER**	% Moisture:
Lab Sample Id: **10145-001**	Date Collected: **Apr-05-06 13:00**	Date Received: **Apr-06-06 09:50**
Sample Depth:		

Analytical Method: EDB by SW8011 Prep Method: EXT_SW8011

Date Analyzed: Apr-06-06 15:37 Analyst: MJL01 Date Prep: Apr-06-06 16:06 Tech: BPR01
Seq Number: 31410

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.019	0.0047	ug/L		1

Analytical Method: Lead by SW6010B Prep Method: SW3010A

Date Analyzed: Apr-07-06 13:58 Analyst: SS02 Date Prep: Apr-07-06 09:30 Tech: MSN01
Seq Number: 31429

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	BRL	0.0100	0.00390	mg/L		1

Analytical Method: Select VOCs by SW8260B Prep Method: SW5030B

Date Analyzed: Apr-14-06 19:55 Analyst: GB01 Date Prep: Apr-14-06 14:59 Tech: GB01
Seq Number: 31563

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.67	ug/L		1
Toluene	108-88-3	1.2	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	BRL	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	BRL	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1

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Version: 1.002

Certificate of Analytical Results 10145

Consultech Environmental, Inc., Lawrenceville, GA

George Southers Grocery

Sample Id: **MW 44** Matrix: **WATER** % Moisture:
Lab Sample Id: **10145-002** Date Collected: **Apr-05-06 12:30** Date Received: **Apr-06-06 09:50**
Sample Depth:

Analytical Method: EDB by SW8011 Prep Method: EXT_SW8011

Date Analyzed: Apr-06-06 16:12 Analyst: MJL01 Date Prep: Apr-06-06 16:06 Tech: BPR01
Seq Number: 31410

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.019	0.0046	ug/L		1

Analytical Method: Lead by SW6010B Prep Method: SW3010A

Date Analyzed: Apr-07-06 14:04 Analyst: SS02 Date Prep: Apr-07-06 09:30 Tech: MSN01
Seq Number: 31429

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	0.430	0.0100	0.00390	mg/L		1

Analytical Method: Select VOCs by SW8260B Prep Method: SW5030B

Date Analyzed: Apr-14-06 21:10 Analyst: GB01 Date Prep: Apr-14-06 14:59 Tech: GB01
Seq Number: 31563

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.67	ug/L		1
Toluene	108-88-3	1.2	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	BRL	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	1.2	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	1.7	1.0	0.62	ug/L		1
Naphthalene	91-20-3	13	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1

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Version: 1.002

Certificate of Analytical Results 10145

Consultech Environmental, Inc., Lawrenceville, GA

George Southers Grocery

Sample Id: **MW 45** Matrix: **WATER** % Moisture:
Lab Sample Id: **10145-003** Date Collected: **Apr-05-06 12:00** Date Received: **Apr-06-06 09:50**
Sample Depth:

Analytical Method: EDB by SW8011 Prep Method: EXT_SW8011

Date Analyzed: Apr-06-06 16:30 Analyst: MJL01 Date Prep: Apr-06-06 16:06 Tech: BPR01
Seq Number: 31410

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.019	0.0047	ug/L		1

Analytical Method: Lead by SW6010B Prep Method: SW3010A

Date Analyzed: Apr-07-06 14:29 Analyst: SS02 Date Prep: Apr-07-06 09:30 Tech: MSN01
Seq Number: 31429

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	0.0705	0.0100	0.00390	mg/L		1

Analytical Method: Select VOCs by SW8260B Prep Method: SW5030B

Date Analyzed: Apr-14-06 21:36 Analyst: GB01 Date Prep: Apr-14-06 14:59 Tech: GB01
Seq Number: 31563

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.67	ug/L		1
Toluene	108-88-3	1.1	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	BRL	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	BRL	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1

Sample Id: **29424 BLK** Matrix: **WATER** % Moisture:
Lab Sample Id: **29424 BLK** Date Collected: Date Received:
Sample Depth:

Analytical Method: EDB by SW8011 Prep Method: EXT_SW8011

Date Analyzed: Apr-06-06 14:43 Analyst: MJL01 Date Prep: Apr-06-06 16:06 Tech: BPR01
Seq Number: 31410

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	BRL	0.020	0.0049	ug/L		1

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Version: 1.002

Certificate of Analytical Results 10145

Consultech Environmental, Inc., Lawrenceville, GA

George Southers Grocery

Sample Id: **29434 BLK** Matrix: **WATER** % Moisture:
Lab Sample Id: **29434 BLK** Date Collected: Date Received:
Sample Depth:

Analytical Method: Lead by SW6010B Prep Method: SW3010A

Date Analyzed: Apr-07-06 13:06 Analyst: SS02 Date Prep: Apr-07-06 09:30 Tech: MSN01
Seq Number: 31429

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Lead	7439-92-1	BRL	0.0100	0.00390	mg/L		1

Sample Id: **29527 BLK** Matrix: **WATER** % Moisture:
Lab Sample Id: **29527 BLK** Date Collected: Date Received:
Sample Depth:

Analytical Method: Select VOCs by SW8260B Prep Method: SW5030B

Date Analyzed: Apr-14-06 19:30 Analyst: GB01 Date Prep: Apr-14-06 14:59 Tech: GB01
Seq Number: 31563

Parameter	Cas Number	Result	Rep Limit	MDL	Units	Flag	Dil
Benzene	71-43-2	BRL	1.0	0.67	ug/L		1
Toluene	108-88-3	BRL	1.0	0.68	ug/L		1
Ethylbenzene	100-41-4	BRL	1.0	0.66	ug/L		1
Xylenes, Total	1330-20-7	BRL	1.0	1.8	ug/L		1
Methyl tert-butyl ether	1634-04-4	BRL	1.0	0.62	ug/L		1
Naphthalene	91-20-3	BRL	5.0	4.0	ug/L		1
1,2-Dichloroethane	107-06-2	BRL	5.0	0.82	ug/L		1
Diisopropyl ether	108-20-3	BRL	5.0	0.89	ug/L		1
Ethanol	64-17-5	BRL	100	55	ug/L		1
Ethyl tert-butyl alcohol	590-36-3	BRL	25	17	ug/L		1
Ethyl tert-butyl ether	637-92-3	BRL	5.0	1.1	ug/L		1
Tert-Amyl alcohol	75-85-4	BRL	25	15	ug/L		1
tert-Amyl methyl ether	994-05-8	BRL	5.0	1.1	ug/L		1
tert-Butyl alcohol	75-65-0	BRL	25	1.1	ug/L		1
tert-Butyl formate	762-75-4	BRL	25	18	ug/L		1

*

Version: 1.002

Form 2 - Surrogate Recoveries

Project Name: George Southers Grocery

Report Date: 04/24/06 10:18

Work Order #: 10145

Project ID: C-05-02-015

Lab Batch #: 31410 **Sample:** 10145-001 / SMP **Batch:** 1 **Matrix:** W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.9	4.8	123	60-140	

Lab Batch #: 31410 **Sample:** 10145-001 / SMP **Batch:** 1 **Matrix:** W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.3	4.8	110	60-140	

Lab Batch #: 31410 **Sample:** 10145-002 / SMP **Batch:** 1 **Matrix:** W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.6	4.7	119	60-140	

Lab Batch #: 31410 **Sample:** 10145-002 / SMP **Batch:** 1 **Matrix:** W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.6	4.7	119	60-140	

Lab Batch #: 31410 **Sample:** 10145-003 / SMP **Batch:** 1 **Matrix:** W

Units: ug/L

SURROGATE RECOVERY STUDY					
EDB / DBCP by SW8011 Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	6.4	4.8	133	60-140	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Labortatory QC limits

Form 2 - Surrogate Recoveries

Project Name: George Southers Grocery

Report Date: 04/24/06 10:18

Work Order #: 10145

Project ID: C-05-02-015

Lab Batch #: 31410 **Sample:** 10145-003 / SMP **Batch:** 1 **Matrix:** W

Units: ug/L

EDB / DBCP by SW8011 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.8	4.8	121	60-140	

Lab Batch #: 31410 **Sample:** 29424 BLK / BLK **Batch:** 1 **Matrix:** W

Units: ug/L

EDB / DBCP by SW8011 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.2	5.0	104	60-140	

Lab Batch #: 31410 **Sample:** 29424 BLK / BLK **Batch:** 1 **Matrix:** W

Units: ug/L

EDB / DBCP by SW8011 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	5.2	5.0	104	60-140	

Lab Batch #: 31563 **Sample:** 10145-001 / SMP **Batch:** 1 **Matrix:** W

Units: ug/L

Select VOCs by SW8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	56.33	50.00	113	66-150	
Bromofluorobenzene	55.98	50.00	112	81-130	
Toluene-d8	54.87	50.00	110	83-127	

Lab Batch #: 31563 **Sample:** 10145-002 / SMP **Batch:** 1 **Matrix:** W

Units: ug/L

Select VOCs by SW8260B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,2-Dichloroethane-d4	62.80	50.00	126	66-150	
Bromofluorobenzene	55.38	50.00	111	81-130	
Toluene-d8	54.04	50.00	108	83-127	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.
Z = Surrogate Recovery exceeded the Labortatory QC limits

Form 2 - Surrogate Recoveries

Project Name: George Southers Grocery

Report Date: 04/24/06 10:18

Work Order #: 10145

Project ID: C-05-02-015

Lab Batch #: 31563 **Sample:** 10145-003 / SMP **Batch:** 1 **Matrix:** W

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW8260B **Analytes**	**Amount Found [A]**	**True Amount [B]**	**Recovery %R [D]**	**Control Limits %R**	**Flags**
1,2-Dichloroethane-d4	59.40	50.00	119	66-150	
Bromofluorobenzene	56.40	50.00	113	81-130	
Toluene-d8	54.55	50.00	109	83-127	

Lab Batch #: 31563 **Sample:** 29527 BLK / BLK **Batch:** 1 **Matrix:** W

Units: ug/L

SURROGATE RECOVERY STUDY					
Select VOCs by SW8260B **Analytes**	**Amount Found [A]**	**True Amount [B]**	**Recovery %R [D]**	**Control Limits %R**	**Flags**
1,2-Dichloroethane-d4	52.98	50.00	106	69-132	
Bromofluorobenzene	57.95	50.00	116	84-130	
Toluene-d8	55.43	50.00	111	86-127	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Z = Surrogate Recovery exceeded the Labortatory QC limits

Microsoft Office Word 97 - 2003 Document
C-05-02-015 Tier II Report.doc
Thursday, January 01, 1970 12:00:00 AM

CONSULTECH ENVIRONMENTAL, INC.

December 23, 2005

Ms. Maia Milenkova
Assessment and Corrective Action Division
Underground storage Tank Program
South Carolina DHEC
2600 Bull Street
Columbia, South Carolina 29201

RE: Disposal manifests for soil and water encountered during Tier II work
George Souther's Grocery
280 Goodjoin Road
Campobello, South Carolina 29322
SCDHEC Site ID #08650, CA#21963

Dear Ms. Milenkova,

This letter serves as certification that all water and soil encountered during our Tier II work was handled in a manner that complies with all conditions established by DHEC for treatment of small amounts of petroleum hydrocarbon contaminated soils and groundwater.

Source:

Soil and groundwater obtained as a result of soil sampling, well development and groundwater sampling.

Conditions:

- No free product was disposed of separately from the drums of water.
- Analytical results show an average concentration of less than 4,900 ppb Benzene and less than 20,000 ppb total BTEX.
- The water obtained was containerized on site, for a period of less than 30 days, prior to treatment by the activated carbon canisters.
- Records of carbon canister usage are maintained by Consultech.
- The carbon canisters have an expected life of 5,000 gallons before replacement is required.
- Recommendations and conditions issued by the canister manufacturer and SCDHEC have been followed.
- All water obtained was treated on site using an up-flow treatment drum consisting of 90 lbs. of activated carbon. Manufacturer's suggested treatment life is 5,000 gallons of water.

Specific site conditions of referenced site:

- A total of ten 55-gallon drums of water were treated on December 15, 2005 at the referenced site.
- Sixty-nine 55-gallon drums of soil were removed from the referenced site and disposed of at Union County Landfill, Enoree, SC. See attached manifests.

Should you have any questions, please contact me at 678-377-0400.

Sincerely,
Consultech Environmental, Inc.

Drew Miller
Staff Scientist

1800 MacLeod Drive, Suite F * Lawrenceville, GA 30043-5376
678 377-0400 * FAX 678 377-0051
1800 MacLeod Drive, Suite F * Lawrenceville, GA 30043-5376
678 377-0400 * FAX 678 377-0051

Box-5623

61,460

REPUBLIC SERVICES, INC.

#122205

NON-HAZARDOUS WASTE MANIFEST

GENERATOR INFORMATION

Generator Name: SCDHEC
Address: 2600 Bull St.
City: Columbia County:
State: SC Zip:
Site Location (if different): 280 Goodwin Rd. Campobello, SC

CUSTOMER/BILLING INFORMATION

Billing Name: EnviroSmart
Address: P. O. Box 20666
City: Charleston County: Charleston
State: SC Zip: 29415

Republic Services Approval #	Description of Waste	Volume/Weight	Expiration Date	Container Type
50217-05	petroleum contaminated	15,000 #		20 yd
	Soil	69 Drums		

*Attach Additional Sheet if necessary

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR 261 or any applicable state law. Further, 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.

Carey Evans — Carey Evans — 12-21-05
Generator/Authorized Agent Name — Signature — Date Shipped

TRANSPORTER INFORMATION

Transporter Name: Pascon
Address: 1541 North Lake Drive Lexington S.C.
DOT #
Truck Number: R010
Phone Number: 359-9334

I certify no hazardous waste or other regulated substance was knowingly introduced to the waste while in my custody. The waste transported in this vehicle is the waste identified above, to the best of my knowledge.

Willie Wilson — Willie Wilson — 12-21-05
Name of Authorized Agent — Signature — Date Delivered

DISPOSAL SITE INFORMATION

Site Name: Union Cnty Landfill
Phone No. 864-969-4460
Address: 868 Wildcat Rd., Enoree, SC 29335

I hereby acknowledge receipt of the above described materials

Beth Collier — Beth Collier — 12/22/05
Name (Print or Type) — Signature — Date Received

Form SW02 (2003)

Republic Services Union County Landfill
893 WILDCAT ROAD
ENOREE, SC 29335
(864) 969-4468

TICKET: 59198
DATE: 12/22/2005
TIME: 12:04 - 12:05

CUSTOMER: 20384 / EnviroSmart/SCDHEC
TRAILER:
PROFILE: 50A17-05 / SC DHEC/GEORGE SOUTHER'S GROCERY
TRUCK: R01020YD ROUTE: NA
TRUCK TYPE: RO / ROLL-OFF WO:
TOKENIT: 122205

P.O.:
GROSS: 61460 LBS Manual
TARE: 33560 LBS
NET: 27900 LBS

WASTE	QUANTITY	UNIT
SPECIAL / SPECIAL	13.95	T

I certify that I have not disposed of any liquid or hazardous waste.

Driver: Wilkes Weighmaster: BETH COLLIER

CONSULTECH ENVIRONMENTAL, INC.

December 23, 2005

Ms. Maia Milenkova
Assessment and Corrective Action Division
Underground storage Tank Program
South Carolina DHEC
2600 Bull Street
Columbia, South Carolina 29201

RE: Disposal manifests for soil and water encountered during Tier II work
George Souther's Grocery
280 Goodjoin Road
Campobello, South Carolina 29322
SCDHEC Site ID #08650, CA#21963

Dear Ms. Milenkova,

This letter serves as certification that all water and soil encountered during our Tier II work was handled in a manner that complies with all conditions established by DHEC for treatment of small amounts of petroleum hydrocarbon contaminated soils and groundwater.

Source:

Soil and groundwater obtained as a result of soil sampling, well development and groundwater sampling.
Conditions:

- No free product was disposed of separately from the drums of water.
- Analytical results show an average concentration of less than 4,900 ppb Benzene and less than 20,000 ppb total BTEX.
- The water obtained was containerized on site, for a period of less than 30 days, prior to treatment by the activated carbon canisters.
- Records of carbon canister usage are maintained by Consultech.
- The carbon canisters have an expected life of 5,000 gallons before replacement is required.
- Recommendations and conditions issued by the canister manufacturer and SCDHEC have been followed.
- All water obtained was treated on site using an up-flow treatment drum consisting of 90 lbs. of activated carbon. Manufacturer's suggested treatment life is 5,000 gallons of water.

Specific site conditions of referenced site:

- A total of ten 55-gallon drums of water were treated on December 15, 2005 at the referenced site.
- Sixty-nine 55-gallon drums of soil were removed from the referenced site and disposed of at Union County Landfill, Enoree, SC. See attached manifests.

Should you have any questions, please contact me at 678-377-0400.

Sincerely,
Consultech Environmental, Inc.

Drew Miller
Staff Scientist

1800 MacLeod Drive, Suite F * Lawrenceville, GA 30043-5376
678 377-0400 * FAX 678 377-0051
1800 MacLeod Drive, Suite F * Lawrenceville, GA 30043-5376
678 377-0400 * FAX 678 377-0051

Box-5623

61,460

REPUBLIC SERVICES, INC.

#122205

NON-HAZARDOUS WASTE MANIFEST

GENERATOR INFORMATION

Generator Name: SCDHEC
Address: 2600 Bull St.
City: Columbia County:
State: SC Zip:
Site Location (if different): 280 Goodwin Rd. Campobello, SC

CUSTOMER/BILLING INFORMATION

Billing Name: EnviroSmart
Address: P. O. Box 20666
City: Charleston County: Charleston
State: SC Zip: 29413

Republic Services Approval #	Description of Waste	Volume/Weight	Expiration Date	Container Type
50817-05	petroleum contaminated	15,000 #		20 yd
	soil	69 drums		

*Attach Additional Sheet if necessary

I hereby certify that the above described materials are non-hazardous wastes as defined by 40 CFR 261 or any applicable state law. Further, 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.

Carey Evans — Generator/Authorized Agent Name
Carey Evans — Signature
12-21-05 — Date Shipped

TRANSPORTER INFORMATION

Transporter Name: Pascon
Address: 1541 North Lake Drive Lexington S.C.
DOT #
Truck Number: R010
Phone Number: 359-9334

I certify no hazardous waste or other regulated substance was knowingly introduced to the waste while in my custody. The waste transported in this vehicle is the waste identified above, to the best of my knowledge.

Willie Wilson — Name of Authorized Agent
Willie Wilson — Signature
12-21-05 — Date Delivered

DISPOSAL SITE INFORMATION

Site Name: Union Cnty Landfill Phone No. 864-969-4460
Address: 868 Wildcat Rd., Enoree, SC 29335

I hereby acknowledge receipt of the above described materials

Beth Collier — Name (Print or Type)
Beth Collier — Signature
12/22/05 — Date Received

Form SW02 (2003)

Republic Services Union County Landfill
892 WILDCAT ROAD
ENOREE, SC 29335
(864) 969-4468

TICKET: 59190
DATE: 12/22/2005
TIME: 12:04 - 12:05

CUSTOMER: 00384 / EnviroSmart/SCDHEC
TRAILER:
PROFILE: 50017-05 / SC DHEC/GEORGE SOUTHER'S GROCERY
TRUCK: R01020YD ROUTE: NA
TRUCK TYPE: RO / ROLL-OFF WO:
DOCUMENT: 122285

P.O.:
GROSS: 61460 LBS Manual
TARE: 33560 LBS
NET: 27900 LBS

WASTE	QUANTITY	UNIT
SPECIAL / SPECIAL	13.95	T

I certify that I have not disposed of any liquid or hazardous waste.

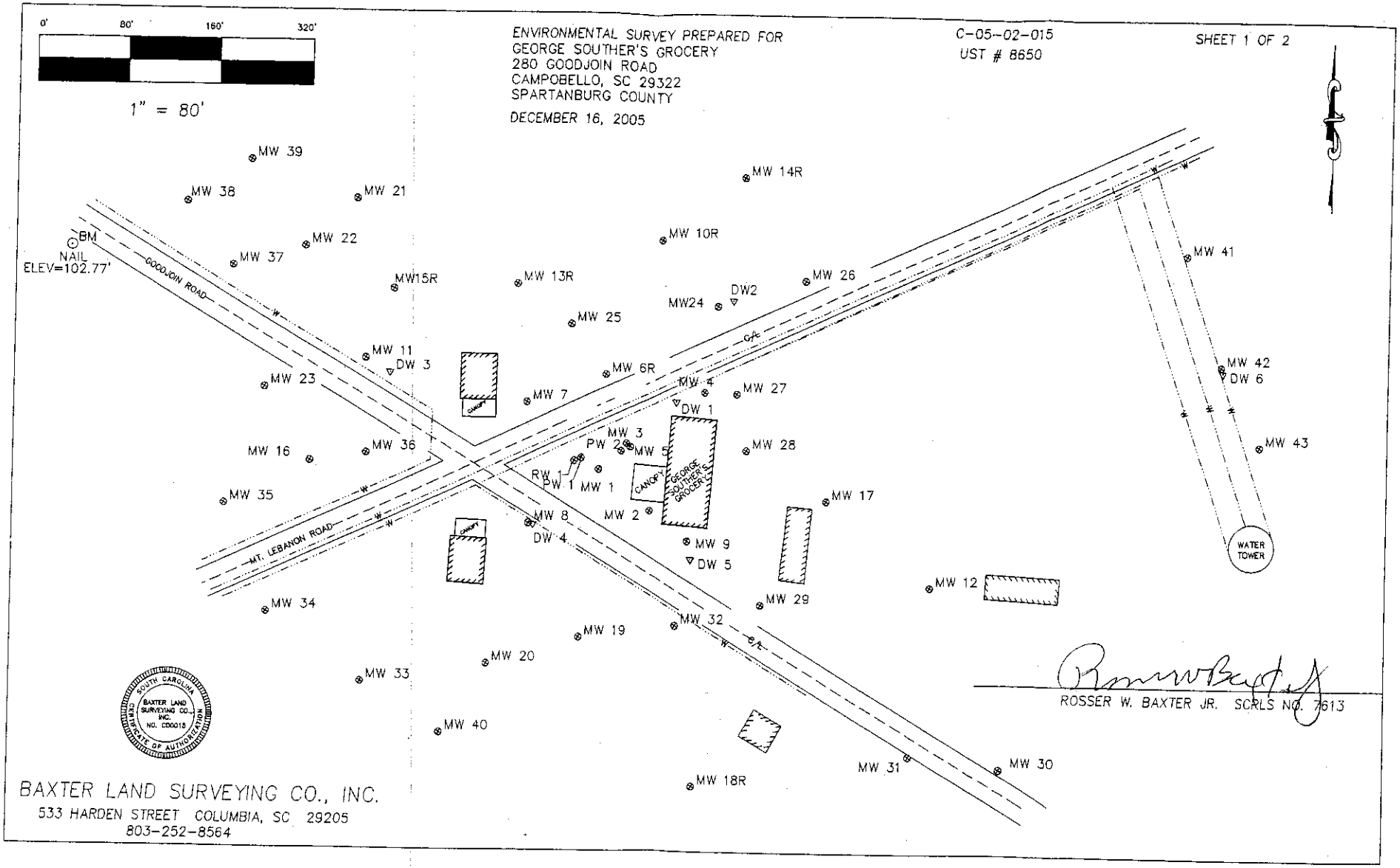
Driver: Willie Cox Weighmaster: BETH COLLIER

ENVIRONMENTAL SURVEY PREPARED FOR
GEORGE SOUTHER'S GROCERY
280 GOODJOIN ROAD
CAMPOBELLO, SC 29322
SPARTANBURG COUNTY

DECEMBER 16, 2005

C-05-02-015
UST # 8650

SHEET 1 OF 2



ROSSER W. BAXTER JR. SCRLS NO. 7613

BAXTER LAND SURVEYING CO., INC.
533 HARDEN STREET COLUMBIA, SC 29205
803-252-8564

MW1	97.56'
MW2	99.82'
MW3	97.11'
MW4	91.48'
MW5	97.69'
MW6R	91.98'
MW7	100.07'
MW8	99.76'
MW9	99.82'
MW10R	89.88'
MW11	101.58'
MW12	95.31'
MW13R	93.29'
MW14R	85.39'
MW15R	91.30'
MW16	99.09'
MW17	100.26'
MW18R	107.22'
MW19	104.69'
MW20	107.20'
MW21	88.91'
MW22	93.34'
MW23	100.07'
MW24	92.02'
MW25	92.81'
MW26	89.42'
MW27	91.80'
MW28	93.10'
MW29	99.81'
MW30	103.50'
MW31	101.05'
MW32	101.72'
MW33	109.05'
MW34	106.31'
MW35	105.02'
MW36	98.99'
MW37	98.21'
MW38	99.60'
MW39	94.98'
MW40	110.46'
MW41	102.02'
MW42	101.91'
MW43	93.34'
DW1	92.89'
DW2	91.95'
DW3	101.41'
DW4	99.80'
DW5	98.64'
DW6	101.86'
RW1	96.62'
PW1	96.59'
PW2	97.77'

SOUTH CAROLINA
BAXTER LAND SURVEYING CO., INC.
NO. C00015
CERTIFICATE OF AUTHORIZATION

BAXTER LAND SURVEYING CO., INC.
533 HARDEN STREET COLUMBIA, SC 29205
803-252-8564

ROSSER W. BAXTER JR. SCPLS NO. 7613

APPENDIX 5
Laboratory Analytical Results

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

September 12, 2005

Jim Wilson
Consultech Environmental, Inc.
1800 MacLeod Rd
Suite F
Lawrenceville, GA 30043

TEL: (678) 377-0400
FAX (678) 377-0051

RE: George Souther's Grocery

Order No.: 0509281

Dear Jim Wilson:

Analytical Environmental Services, Inc. received 8 samples on 9/7/2005 10:05:00 AM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. Sample results are not dry weight corrected, unless if Pmoist analysis are requested on the chain of custody or other project spefic arrangements have been made.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 06/01/05-06/30/06.
-AIHA Certification number 505 for analysis of Industrial Hygiene samples (Organics, Inorganics), Paint Chips, Soil and Dust Wipes, effective until 02/01/07.

These results relate only to the items tested. This report may only be reproduced in full and contains 14 total pages (including cover letter).

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

Sincerely,

J. Trichinotis

James Trichinotis
Project Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770) 457-8188

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 [illegible]dential Parkway, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 09281

Date: _____ Page 1 of 1

COMPANY: CONSULTECH

ADDRESS: 1800 MACLAND SUITE 1600 LIVILLE, GA 30043

PHONE: 678-377-0400

FAX: 678-377-0051

SAMPLED BY: Kevin Van De Vusse

SIGNATURE: Kevin Van De Vusse

ANALYSIS REQUESTED: BTEX, MTBE, NAP-8260D; BTEX

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	BTEX, MTBE, NAP-8260D	BTEX	REMARKS	No # of Containers
1										
2	GW-01	9/1/05	1530	✓			2			
3	GW-02	9/1/05	1615	✓			2			
4	GW-03	9/1/05	1730	✓			2			
5	GW-04	9/2/05	0800	✓			2			
6	GW-05	9/2/05	0845	✓			2			
7	GW-06	9/2/05	0945	✓			2			
8	GW-07	9/2/05	1050	✓			2			
9	05-02-015	9/2/05	1130		✓			4		
10										
11										
12										
13										
14										

PRESERVATION (See codes)

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: Kevin Van De Vusse		1: FED EX	
2: fed ex		2: Marcus D Robinson	9-7-5 10:05
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: VIA
IN: VIA
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER

PROJECT INFORMATION
PROJECT NAME: GEORGE SOUTHER'S GROCERY
PROJECT #: 05-02-015
SITE ADDRESS: CAMPOBELLO, SC
SEND REPORT TO: Jim Wilson
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers

Turnaround Time Request
- ✓ Standard 5 Business Days
- 2 Business Day Rush
- Next Business Day Rush
- Same Day Rush (auth req.)
- Other

STATE PROGRAM (if any):
E-mail? Y N Fax? Y N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S+M+I = Sodium Bisulfate Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc.

Date: *12-Sep-05*

CLIENT: Consultech Environmental, Inc.
Project: George Souther's Grocery
Lab Order: 0509281

CASE NARRATIVE

Sample Receipt Non-Conformance:

A Trip Blank was provided but is not listed on the COC. Trip blank will be analyzed free of charge.

Sample 05-02-015 was not received with the rest of the samples.

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 4th Edition. All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives unless indicated in the case narrative.

Volatile Organic Compounds Analysis by Method 8260B:

Matrix spike recovery for Toluene on sample 0509281-001AMS were outside control limits biased high. LCS recovery was within control limits indicating possible matrix interference.

Analytical Environmental Services, Inc.

Date: *12-Sep-05*

CLIENT: Consultech Environmental, Inc.
Project: George Souther's Grocery
Lab ID: 0509281-001

Client Sample ID: GW-01
Collection Date: 9/1/2005 3:30:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **TMP**
Methyl tert-butyl ether	BRL	1.0		µg/L	61903	1	9/8/2005 1:03 PM
Benzene	BRL	1.0		µg/L	61903	1	9/8/2005 1:03 PM
Toluene	BRL	1.0		µg/L	61903	1	9/8/2005 1:03 PM
Ethylbenzene	BRL	1.0		µg/L	61903	1	9/8/2005 1:03 PM
m,p-Xylene	BRL	1.0		µg/L	61903	1	9/8/2005 1:03 PM
o-Xylene	BRL	1.0		µg/L	61903	1	9/8/2005 1:03 PM
Naphthalene	BRL	5.0		µg/L	61903	1	9/8/2005 1:03 PM
Surr: 4-Bromofluorobenzene	97.2	66.7-128		%REC	61903	1	9/8/2005 1:03 PM
Surr: Dibromofluoromethane	99.3	72.1-121		%REC	61903	1	9/8/2005 1:03 PM
Surr: Toluene-d8	103	75.2-121		%REC	61903	1	9/8/2005 1:03 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *12-Sep-05*

CLIENT: Consultech Environmental, Inc.
Project: George Souther's Grocery
Lab ID: 0509281-002

Client Sample ID: GW-02
Collection Date: 9/1/2005 4:15:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **TMP**
Methyl tert-butyl ether	BRL	1.0		µg/L	61903	1	9/8/2005 2:47 PM
Benzene	10	1.0		µg/L	61903	1	9/8/2005 2:47 PM
Toluene	3.5	1.0		µg/L	61903	1	9/8/2005 2:47 PM
Ethylbenzene	BRL	1.0		µg/L	61903	1	9/8/2005 2:47 PM
m,p-Xylene	BRL	1.0		µg/L	61903	1	9/8/2005 2:47 PM
o-Xylene	BRL	1.0		µg/L	61903	1	9/8/2005 2:47 PM
Naphthalene	BRL	5.0		µg/L	61903	1	9/8/2005 2:47 PM
Surr: 4-Bromofluorobenzene	95.7	66.7-128		%REC	61903	1	9/8/2005 2:47 PM
Surr: Dibromofluoromethane	99.8	72.1-121		%REC	61903	1	9/8/2005 2:47 PM
Surr: Toluene-d8	106	75.2-121		%REC	61903	1	9/8/2005 2:47 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *12-Sep-05*

CLIENT: Consultech Environmental, Inc.
Project: George Souther's Grocery
Lab ID: 0509281-003

Client Sample ID: GW-03
Collection Date: 9/1/2005 5:30:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **TMP**
Methyl tert-butyl ether	BRL	1.0		µg/L	61903	1	9/8/2005 4:59 PM
Benzene	18	1.0		µg/L	61903	1	9/8/2005 4:59 PM
Toluene	10	1.0		µg/L	61903	1	9/8/2005 4:59 PM
Ethylbenzene	BRL	1.0		µg/L	61903	1	9/8/2005 4:59 PM
m,p-Xylene	2.4	1.0		µg/L	61903	1	9/8/2005 4:59 PM
o-Xylene	1.6	1.0		µg/L	61903	1	9/8/2005 4:59 PM
Naphthalene	BRL	5.0		µg/L	61903	1	9/8/2005 4:59 PM
Surr: 4-Bromofluorobenzene	108	66.7-128		%REC	61903	1	9/8/2005 4:59 PM
Surr: Dibromofluoromethane	91.5	72.1-121		%REC	61903	1	9/8/2005 4:59 PM
Surr: Toluene-d8	110	75.2-121		%REC	61903	1	9/8/2005 4:59 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *12-Sep-05*

CLIENT: Consultech Environmental, Inc.
Project: George Souther's Grocery
Lab ID: 0509281-004

Client Sample ID: GW-04
Collection Date: 9/2/2005 8:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **TMP**
Methyl tert-butyl ether	BRL	1.0		µg/L	61903	1	9/8/2005 3:14 PM
Benzene	6.7	1.0		µg/L	61903	1	9/8/2005 3:14 PM
Toluene	3.4	1.0		µg/L	61903	1	9/8/2005 3:14 PM
Ethylbenzene	BRL	1.0		µg/L	61903	1	9/8/2005 3:14 PM
m,p-Xylene	BRL	1.0		µg/L	61903	1	9/8/2005 3:14 PM
o-Xylene	BRL	1.0		µg/L	61903	1	9/8/2005 3:14 PM
Naphthalene	BRL	5.0		µg/L	61903	1	9/8/2005 3:14 PM
Surr: 4-Bromofluorobenzene	94.4	66.7-128		%REC	61903	1	9/8/2005 3:14 PM
Surr: Dibromofluoromethane	101	72.1-121		%REC	61903	1	9/8/2005 3:14 PM
Surr: Toluene-d8	103	75.2-121		%REC	61903	1	9/8/2005 3:14 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *12-Sep-05*

CLIENT: Consultech Environmental, Inc.
Project: George Souther's Grocery
Lab ID: 0509281-005

Client Sample ID: GW-05
Collection Date: 9/2/2005 8:45:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **TMP**
Methyl tert-butyl ether	BRL	1.0		µg/L	61903	1	9/8/2005 4:06 PM
Benzene	BRL	1.0		µg/L	61903	1	9/8/2005 4:06 PM
Toluene	BRL	1.0		µg/L	61903	1	9/8/2005 4:06 PM
Ethylbenzene	BRL	1.0		µg/L	61903	1	9/8/2005 4:06 PM
m,p-Xylene	BRL	1.0		µg/L	61903	1	9/8/2005 4:06 PM
o-Xylene	BRL	1.0		µg/L	61903	1	9/8/2005 4:06 PM
Naphthalene	BRL	5.0		µg/L	61903	1	9/8/2005 4:06 PM
Surr: 4-Bromofluorobenzene	94.7	66.7-128		%REC	61903	1	9/8/2005 4:06 PM
Surr: Dibromofluoromethane	100	72.1-121		%REC	61903	1	9/8/2005 4:06 PM
Surr: Toluene-d8	103	75.2-121		%REC	61903	1	9/8/2005 4:06 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *12-Sep-05*

CLIENT: Consultech Environmental, Inc.
Project: George Souther's Grocery
Lab ID: 0509281-006

Client Sample ID: GW-06
Collection Date: 9/2/2005 9:45:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **TMP**
Methyl tert-butyl ether	BRL	1.0		µg/L	61903	1	9/8/2005 3:40 PM
Benzene	1.1	1.0		µg/L	61903	1	9/8/2005 3:40 PM
Toluene	BRL	1.0		µg/L	61903	1	9/8/2005 3:40 PM
Ethylbenzene	BRL	1.0		µg/L	61903	1	9/8/2005 3:40 PM
m,p-Xylene	BRL	1.0		µg/L	61903	1	9/8/2005 3:40 PM
o-Xylene	BRL	1.0		µg/L	61903	1	9/8/2005 3:40 PM
Naphthalene	BRL	5.0		µg/L	61903	1	9/8/2005 3:40 PM
Surr: 4-Bromofluorobenzene	92.6	66.7-128		%REC	61903	1	9/8/2005 3:40 PM
Surr: Dibromofluoromethane	99.5	72.1-121		%REC	61903	1	9/8/2005 3:40 PM
Surr: Toluene-d8	106	75.2-121		%REC	61903	1	9/8/2005 3:40 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *12-Sep-05*

CLIENT: Consultech Environmental, Inc.
Project: George Souther's Grocery
Lab ID: 0509281-007

Client Sample ID: GW-07
Collection Date: 9/2/2005 10:50:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **TMP**
Methyl tert-butyl ether	BRL	1.0		µg/L	61903	1	9/8/2005 4:33 PM
Benzene	BRL	1.0		µg/L	61903	1	9/8/2005 4:33 PM
Toluene	BRL	1.0		µg/L	61903	1	9/8/2005 4:33 PM
Ethylbenzene	BRL	1.0		µg/L	61903	1	9/8/2005 4:33 PM
m,p-Xylene	BRL	1.0		µg/L	61903	1	9/8/2005 4:33 PM
o-Xylene	BRL	1.0		µg/L	61903	1	9/8/2005 4:33 PM
Naphthalene	BRL	5.0		µg/L	61903	1	9/8/2005 4:33 PM
Surr: 4-Bromofluorobenzene	95.7	66.7-128		%REC	61903	1	9/8/2005 4:33 PM
Surr: Dibromofluoromethane	99.4	72.1-121		%REC	61903	1	9/8/2005 4:33 PM
Surr: Toluene-d8	102	75.2-121		%REC	61903	1	9/8/2005 4:33 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *12-Sep-05*

CLIENT: Consultech Environmental, Inc.
Project: George Souther's Grocery
Lab ID: 0509281-008

Client Sample ID: TRIP BLANK
Collection Date: 9/2/2005
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **TMP**
Methyl tert-butyl ether	BRL	1.0		µg/L	61903	1	9/8/2005 11:45 AM
Benzene	BRL	1.0		µg/L	61903	1	9/8/2005 11:45 AM
Toluene	BRL	1.0		µg/L	61903	1	9/8/2005 11:45 AM
Ethylbenzene	BRL	1.0		µg/L	61903	1	9/8/2005 11:45 AM
m,p-Xylene	BRL	1.0		µg/L	61903	1	9/8/2005 11:45 AM
o-Xylene	BRL	1.0		µg/L	61903	1	9/8/2005 11:45 AM
Naphthalene	BRL	5.0		µg/L	61903	1	9/8/2005 11:45 AM
Surr: 4-Bromofluorobenzene	92.4	66.7-128		%REC	61903	1	9/8/2005 11:45 AM
Surr: Dibromofluoromethane	103	72.1-121		%REC	61903	1	9/8/2005 11:45 AM
Surr: Toluene-d8	105	75.2-121		%REC	61903	1	9/8/2005 11:45 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level
BRL	Below Reporting Limit
H	Holding times for preparation or analysis exceeded
N	Analyte not NELAC certified
B	Analyte detected in the associated Method Blank
E	Estimated (Value above quantitation range)
S	Surrogate Recovery outside accepted recovery limits
Narr	See Case Narrative
NC	Not Confirmed

Analytical Environmental Services, Inc.

Date: *12-Sep-05*

CLIENT: Consultech Environmental, Inc.
Work Order: 0509281
Project: George Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID **MB-61903** SampType: **MBLK** TestCode: **8260B_W** Units: **µg/L** Prep Date: **9/8/2005** RunNo: **71325**
Client ID: Batch ID: **61903** TestNo: **SW8260B** Analysis Date: **9/8/2005** SeqNo: **1406195**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	BRL	5.0									
Ethylbenzene	BRL	5.0									
m,p-Xylene	BRL	10									
Methyl tert-butyl ether	BRL	5.0									
Naphthalene	BRL	5.0									
o-Xylene	BRL	5.0									
Toluene	BRL	5.0									
Surr: 4-Bromofluorobenzene	47.99	5.0	50	0	96	66.7	128	0	0		
Surr: Dibromofluoromethane	52.27	5.0	50	0	105	72.1	121	0	0		
Surr: Toluene-d8	51.69	5.0	50	0	103	75.2	121	0	0		

Sample ID **LCS-61903** SampType: **LCS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **9/8/2005** RunNo: **71325**
Client ID: Batch ID: **61903** TestNo: **SW8260B** Analysis Date: **9/8/2005** SeqNo: **1406197**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	53	5.0	50	0	106	74.9	126	0	0		
Toluene	58.89	5.0	50	0	118	81.3	125	0	0		
Surr: 4-Bromofluorobenzene	47.3	5.0	50	0	94.6	66.7	128	0	0		
Surr: Dibromofluoromethane	53.68	5.0	50	0	107	72.1	121	0	0		
Surr: Toluene-d8	51.32	5.0	50	0	103	75.2	121	0	0		

Sample ID **0509281-001AMS** SampType: **MS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **9/8/2005** RunNo: **71325**
Client ID: **GW-01** Batch ID: **61903** TestNo: **SW8260B** Analysis Date: **9/8/2005** SeqNo: **1406200**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	54.72	5.0	50	0	109	69.7	128	0	0		
Toluene	64.69	5.0	50	0	129	76.2	128	0	0		S
Surr: 4-Bromofluorobenzene	48.55	5.0	50	0	97.1	66.7	128	0	0		
Surr: Dibromofluoromethane	48.23	5.0	50	0	96.5	72.1	121	0	0		

Qualifiers:
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- BRL Below Reporting Limit
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0509281
Project: George Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID	0509281-001AMS	SampType:	MS	TestCode:	8260B_W	Units:	µg/L	Prep Date:	9/8/2005	RunNo:	71325
Client ID:	GW-01	Batch ID:	61903	TestNo:	SW8260B			Analysis Date:	9/8/2005	SeqNo:	1406200

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	52.9	5.0	50	0	106	75.2	121	0	0		

Sample ID	0509281-001AMSD	SampType:	MSD	TestCode:	8260B_W	Units:	µg/L	Prep Date:	9/8/2005	RunNo:	71325
Client ID:	GW-01	Batch ID:	61903	TestNo:	SW8260B			Analysis Date:	9/8/2005	SeqNo:	1406201

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	56.72	5.0	50	0	113	69.7	128	54.72	3.59	10	
Toluene	63.99	5.0	50	0	128	76.2	128	64.69	1.09	10	
Surr: 4-Bromofluorobenzene	48.03	5.0	50	0	96.1	66.7	128	48.55	0	0	
Surr: Dibromofluoromethane	49.62	5.0	50	0	99.2	72.1	121	48.23	0	0	
Surr: Toluene-d8	51.01	5.0	50	0	102	75.2	121	52.9	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

October 25, 2005

Jim Wilson
Consultech Environmental, Inc.
1800 MacLeod Rd
Suite F
Lawrenceville, GA 30043

TEL: (678) 377-0400
FAX (678) 377-0051

RE: George Souther's Grocery

Order No.: 0510C07

Dear Jim Wilson:

Analytical Environmental Services, Inc. received 9 samples on 10/24/2005 3:40:00 PM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. Sample results are not dry weight corrected, unless if Pmoist analysis are requested on the chain of custody or other project specific arrangements have been made.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 06/01/05-06/30/06.
-AIHA Certification number 505 for analysis of Industrial Hygiene samples (Organics, Inorganics), Paint Chips, Soil and Dust Wipes, effective until 02/01/07.

These results relate only to the items tested. This report may only be reproduced in full and contains 15 total pages (including cover letter).

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

Sincerely,

Mila Crain

Mila Crain
Customer Service Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 0510C07

Date: _____ Page 1 of 1

COMPANY: CONSULTECH
ADDRESS: 1800 Macland Suite E Lawrenceville, GA
PHONE: 678-377-0400
FAX: 678-377-0051
SAMPLED BY: Keith Van DeVusse
SIGNATURE: [signature]

ANALYSIS REQUESTED: TPH, MTBE, PAH-8270

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)	REMARKS	No # of Containers
1									
2	GW-08	10/20/05	1610	✓			2		
3	GW-09	10/20/05	1705	✓			2		
4	GW-10	10/20/05	1820	✓			2		
5	GW-11	10/21/05	1200	✓			2		
6	GW-12	10/21/05	1315	✓			2		
7	GW-13	10/21/05	1400	✓			2		
8	GW-14	10/21/05	1430	✓			2		
9	GW-15	10/21/05	1505	✓			2		
10									
11									
12									
13									
14									

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: [signature]	10/24/05	1: [signature]	10/24/05 2:45
2: [signature]	10/24/05 3:40	2: [signature]	10/24/05 3:40
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS

SHIPMENT METHOD
OUT: VIA:
IN: VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER _____

PROJECT INFORMATION
PROJECT NAME: GEORGE SOUTHER'S GROCERY
PROJECT #: 05-02-015
SITE ADDRESS: Campobello, SC
SEND REPORT TO: Jim Wilson
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers

Turnaround Time Request
- ○ Standard 5 Business Days
- ○ 2 Business Day Rush
- ☒ Next Business Day Rush
- ○ Same Day Rush (auth req.)
- ○ Other _____

STATE PROGRAM (if any): _____
E-mail? Y N Fax? Y/N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
PRESERVATIVE CODES: HCl = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S M+I = Sodium Bisulfate Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc. **Date:** *25-Oct-05*

CLIENT: Consultech Environmental, Inc.
Project: George Souther's Grocery
Lab Order: 0510C07

CASE NARRATIVE

Sample Receipt Non-Conformance:

A Trip Blank was provided but is not listed on the COC. Proceed with trip blank analysis at no cost to the client.
One sample of "GW-10" has headspace. Proceed with analysis.

Analytical Environmental Services, Inc.

Date: *25-Oct-05*

CLIENT: Consultech Environmental, Inc.
Project: George Souther's Grocery
Lab ID: 0510C07-001

Client Sample ID: GW-08
Collection Date: 10/20/2005 4:10:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **JTC**
Methyl tert-butyl ether	BRL	1.0		µg/L	63551	1	10/24/2005 10:04 PM
Benzene	BRL	1.0		µg/L	63551	1	10/24/2005 10:04 PM
Toluene	1.3	1.0		µg/L	63551	1	10/24/2005 10:04 PM
Ethylbenzene	BRL	1.0		µg/L	63551	1	10/24/2005 10:04 PM
m,p-Xylene	BRL	1.0		µg/L	63551	1	10/24/2005 10:04 PM
o-Xylene	BRL	1.0		µg/L	63551	1	10/24/2005 10:04 PM
Naphthalene	BRL	5.0		µg/L	63551	1	10/24/2005 10:04 PM
Surr: 4-Bromofluorobenzene	77.5	63.7-115		%REC	63551	1	10/24/2005 10:04 PM
Surr: Dibromofluoromethane	104	70.4-123		%REC	63551	1	10/24/2005 10:04 PM
Surr: Toluene-d8	100	73.4-115		%REC	63551	1	10/24/2005 10:04 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *25-Oct-05*

CLIENT: Consultech Environmental, Inc.
Project: George Souther's Grocery
Lab ID: 0510C07-002

Client Sample ID: GW-09
Collection Date: 10/20/2005 5:05:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **JTC**
Methyl tert-butyl ether	BRL	1.0		µg/L	63551	1	10/24/2005 10:31 PM
Benzene	BRL	1.0		µg/L	63551	1	10/24/2005 10:31 PM
Toluene	4.8	1.0		µg/L	63551	1	10/24/2005 10:31 PM
Ethylbenzene	1.7	1.0		µg/L	63551	1	10/24/2005 10:31 PM
m,p-Xylene	4.1	1.0		µg/L	63551	1	10/24/2005 10:31 PM
o-Xylene	1.4	1.0		µg/L	63551	1	10/24/2005 10:31 PM
Naphthalene	BRL	5.0		µg/L	63551	1	10/24/2005 10:31 PM
Surr: 4-Bromofluorobenzene	79.7	63.7-115		%REC	63551	1	10/24/2005 10:31 PM
Surr: Dibromofluoromethane	102	70.4-123		%REC	63551	1	10/24/2005 10:31 PM
Surr: Toluene-d8	100	73.4-115		%REC	63551	1	10/24/2005 10:31 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *25-Oct-05*

CLIENT: Consultech Environmental, Inc.
Project: George Souther's Grocery
Lab ID: 0510C07-003

Client Sample ID: GW-10
Collection Date: 10/20/2005 6:20:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **JTC**
Methyl tert-butyl ether	BRL	1.0		µg/L	63551	1	10/24/2005 9:37 PM
Benzene	BRL	1.0		µg/L	63551	1	10/24/2005 9:37 PM
Toluene	BRL	1.0		µg/L	63551	1	10/24/2005 9:37 PM
Ethylbenzene	BRL	1.0		µg/L	63551	1	10/24/2005 9:37 PM
m,p-Xylene	BRL	1.0		µg/L	63551	1	10/24/2005 9:37 PM
o-Xylene	BRL	1.0		µg/L	63551	1	10/24/2005 9:37 PM
Naphthalene	BRL	5.0		µg/L	63551	1	10/24/2005 9:37 PM
Surr: 4-Bromofluorobenzene	77.7	63.7-115		%REC	63551	1	10/24/2005 9:37 PM
Surr: Dibromofluoromethane	109	70.4-123		%REC	63551	1	10/24/2005 9:37 PM
Surr: Toluene-d8	100	73.4-115		%REC	63551	1	10/24/2005 9:37 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level
BRL	Below Reporting Limit
H	Holding times for preparation or analysis exceeded
N	Analyte not NELAC certified
B	Analyte detected in the associated Method Blank
E	Estimated (Value above quantitation range)
S	Surrogate Recovery outside accepted recovery limits
Narr	See Case Narrative
NC	Not Confirmed

Analytical Environmental Services, Inc.

Date: *25-Oct-05*

CLIENT: Consultech Environmental, Inc.
Project: George Souther's Grocery
Lab ID: 0510C07-004

Client Sample ID: GW-11
Collection Date: 10/21/2005 12:00:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **JTC**
Methyl tert-butyl ether	BRL	1.0		µg/L	63551	1	10/24/2005 9:09 PM
Benzene	BRL	1.0		µg/L	63551	1	10/24/2005 9:09 PM
Toluene	BRL	1.0		µg/L	63551	1	10/24/2005 9:09 PM
Ethylbenzene	BRL	1.0		µg/L	63551	1	10/24/2005 9:09 PM
m,p-Xylene	BRL	1.0		µg/L	63551	1	10/24/2005 9:09 PM
o-Xylene	BRL	1.0		µg/L	63551	1	10/24/2005 9:09 PM
Naphthalene	BRL	5.0		µg/L	63551	1	10/24/2005 9:09 PM
Surr: 4-Bromofluorobenzene	77.7	63.7-115		%REC	63551	1	10/24/2005 9:09 PM
Surr: Dibromofluoromethane	106	70.4-123		%REC	63551	1	10/24/2005 9:09 PM
Surr: Toluene-d8	99.2	73.4-115		%REC	63551	1	10/24/2005 9:09 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *25-Oct-05*

CLIENT: Consultech Environmental, Inc.
Project: George Souther's Grocery
Lab ID: 0510C07-005

Client Sample ID: GW-12
Collection Date: 10/21/2005 1:15:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **JTC**
Methyl tert-butyl ether	BRL	1.0		µg/L	63551	1	10/24/2005 10:58 PM
Benzene	290	100		µg/L	63551	100	10/25/2005 4:18 PM
Toluene	6900	100		µg/L	63551	100	10/25/2005 4:18 PM
Ethylbenzene	1000	100		µg/L	63551	100	10/25/2005 4:18 PM
m,p-Xylene	4400	100		µg/L	63551	100	10/25/2005 4:18 PM
o-Xylene	1800	100		µg/L	63551	100	10/25/2005 4:18 PM
Naphthalene	54	5.0		µg/L	63551	1	10/24/2005 10:58 PM
Surr: 4-Bromofluorobenzene	99.6	63.7-115		%REC	63551	100	10/25/2005 4:18 PM
Surr: 4-Bromofluorobenzene	99.1	63.7-115		%REC	63551	1	10/24/2005 10:58 PM
Surr: Dibromofluoromethane	91.3	70.4-123		%REC	63551	100	10/25/2005 4:18 PM
Surr: Dibromofluoromethane	90.0	70.4-123		%REC	63551	1	10/24/2005 10:58 PM
Surr: Toluene-d8	92.8	73.4-115		%REC	63551	100	10/25/2005 4:18 PM
Surr: Toluene-d8	107	73.4-115		%REC	63551	1	10/24/2005 10:58 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *25-Oct-05*

CLIENT: Consultech Environmental, Inc.
Project: George Souther's Grocery
Lab ID: 0510C07-006

Client Sample ID: GW-13
Collection Date: 10/21/2005 2:00:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **JTC**
Methyl tert-butyl ether	BRL	1.0		µg/L	63551	1	10/24/2005 6:53 PM
Benzene	1.1	1.0		µg/L	63551	1	10/24/2005 6:53 PM
Toluene	15	1.0		µg/L	63551	1	10/24/2005 6:53 PM
Ethylbenzene	1.3	1.0		µg/L	63551	1	10/24/2005 6:53 PM
m,p-Xylene	1.9	1.0		µg/L	63551	1	10/24/2005 6:53 PM
o-Xylene	3.7	1.0		µg/L	63551	1	10/24/2005 6:53 PM
Naphthalene	BRL	5.0		µg/L	63551	1	10/24/2005 6:53 PM
Surr: 4-Bromofluorobenzene	85.4	63.7-115		%REC	63551	1	10/24/2005 6:53 PM
Surr: Dibromofluoromethane	108	70.4-123		%REC	63551	1	10/24/2005 6:53 PM
Surr: Toluene-d8	99.2	73.4-115		%REC	63551	1	10/24/2005 6:53 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level
BRL	Below Reporting Limit
H	Holding times for preparation or analysis exceeded
N	Analyte not NELAC certified
B	Analyte detected in the associated Method Blank
E	Estimated (Value above quantitation range)
S	Surrogate Recovery outside accepted recovery limits
Narr	See Case Narrative
NC	Not Confirmed

Analytical Environmental Services, Inc.

Date: *25-Oct-05*

CLIENT: Consultech Environmental, Inc.
Project: George Souther's Grocery
Lab ID: 0510C07-007

Client Sample ID: GW-14
Collection Date: 10/21/2005 2:30:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **JTC**
Methyl tert-butyl ether	BRL	1.0		µg/L	63551	1	10/24/2005 7:48 PM
Benzene	1.8	1.0		µg/L	63551	1	10/24/2005 7:48 PM
Toluene	27	1.0		µg/L	63551	1	10/24/2005 7:48 PM
Ethylbenzene	2.4	1.0		µg/L	63551	1	10/24/2005 7:48 PM
m,p-Xylene	3.5	1.0		µg/L	63551	1	10/24/2005 7:48 PM
o-Xylene	7.1	1.0		µg/L	63551	1	10/24/2005 7:48 PM
Naphthalene	BRL	5.0		µg/L	63551	1	10/24/2005 7:48 PM
Surr: 4-Bromofluorobenzene	86.1	63.7-115		%REC	63551	1	10/24/2005 7:48 PM
Surr: Dibromofluoromethane	104	70.4-123		%REC	63551	1	10/24/2005 7:48 PM
Surr: Toluene-d8	98.1	73.4-115		%REC	63551	1	10/24/2005 7:48 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level
BRL	Below Reporting Limit
H	Holding times for preparation or analysis exceeded
N	Analyte not NELAC certified
B	Analyte detected in the associated Method Blank
E	Estimated (Value above quantitation range)
S	Surrogate Recovery outside accepted recovery limits
Narr	See Case Narrative
NC	Not Confirmed

Analytical Environmental Services, Inc.

Date: *25-Oct-05*

CLIENT: Consultech Environmental, Inc.
Project: George Souther's Grocery
Lab ID: 0510C07-008

Client Sample ID: GW-15
Collection Date: 10/21/2005 3:05:00 PM
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **JTC**
Methyl tert-butyl ether	BRL	1.0		µg/L	63551	1	10/24/2005 7:21 PM
Benzene	1.8	1.0		µg/L	63551	1	10/24/2005 7:21 PM
Toluene	25	1.0		µg/L	63551	1	10/24/2005 7:21 PM
Ethylbenzene	2.1	1.0		µg/L	63551	1	10/24/2005 7:21 PM
m,p-Xylene	3.0	1.0		µg/L	63551	1	10/24/2005 7:21 PM
o-Xylene	6.3	1.0		µg/L	63551	1	10/24/2005 7:21 PM
Naphthalene	BRL	5.0		µg/L	63551	1	10/24/2005 7:21 PM
Surr: 4-Bromofluorobenzene	86.1	63.7-115		%REC	63551	1	10/24/2005 7:21 PM
Surr: Dibromofluoromethane	105	70.4-123		%REC	63551	1	10/24/2005 7:21 PM
Surr: Toluene-d8	99.1	73.4-115		%REC	63551	1	10/24/2005 7:21 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *25-Oct-05*

CLIENT: Consultech Environmental, Inc.
Project: George Souther's Grocery
Lab ID: 0510C07-009

Client Sample ID: TRIP BLANK
Collection Date: 10/20/2005
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **JTC**
Methyl tert-butyl ether	BRL	1.0		µg/L	63551	1	10/24/2005 6:26 PM
Benzene	BRL	1.0		µg/L	63551	1	10/24/2005 6:26 PM
Toluene	BRL	1.0		µg/L	63551	1	10/24/2005 6:26 PM
Ethylbenzene	BRL	1.0		µg/L	63551	1	10/24/2005 6:26 PM
m,p-Xylene	BRL	1.0		µg/L	63551	1	10/24/2005 6:26 PM
o-Xylene	BRL	1.0		µg/L	63551	1	10/24/2005 6:26 PM
Naphthalene	BRL	5.0		µg/L	63551	1	10/24/2005 6:26 PM
Surr: 4-Bromofluorobenzene	79.5	63.7-115		%REC	63551	1	10/24/2005 6:26 PM
Surr: Dibromofluoromethane	108	70.4-123		%REC	63551	1	10/24/2005 6:26 PM
Surr: Toluene-d8	98.0	73.4-115		%REC	63551	1	10/24/2005 6:26 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *25-Oct-05*

CLIENT: Consultech Environmental, Inc.
Work Order: 0510C07
Project: George Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID **MB-63551** SampType: **MBLK** TestCode: **8260B_W** Units: **µg/L** Prep Date: **10/24/2005** RunNo: **73707**
Client ID: Batch ID: **63551** TestNo: **SW8260B** Analysis Date: **10/24/2005** SeqNo: **1454381**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	BRL	5.0									
Ethylbenzene	BRL	5.0									
m,p-Xylene	BRL	10									
Methyl tert-butyl ether	BRL	5.0									
Naphthalene	BRL	5.0									
o-Xylene	BRL	5.0									
Toluene	BRL	5.0									
Surr: 4-Bromofluorobenzene	40.9	5.0	50	0	81.8	63.7	115	0	0		
Surr: Dibromofluoromethane	53.29	5.0	50	0	107	70.4	123	0	0		
Surr: Toluene-d8	48.45	5.0	50	0	96.9	73.4	115	0	0		

Sample ID **LCS-63551** SampType: **LCS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **10/24/2005** RunNo: **73707**
Client ID: Batch ID: **63551** TestNo: **SW8260B** Analysis Date: **10/24/2005** SeqNo: **1454382**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	54.15	5.0	50	0	108	77.4	127	0	0		
Toluene	54.15	5.0	50	0	108	79.6	127	0	0		
Surr: 4-Bromofluorobenzene	40.94	5.0	50	0	81.9	63.7	115	0	0		
Surr: Dibromofluoromethane	51	5.0	50	0	102	70.4	123	0	0		
Surr: Toluene-d8	47.85	5.0	50	0	95.7	73.4	115	0	0		

Sample ID **0510C07-007AMS** SampType: **MS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **10/24/2005** RunNo: **73707**
Client ID: **GW-14** Batch ID: **63551** TestNo: **SW8260B** Analysis Date: **10/24/2005** SeqNo: **1454420**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	55.01	5.0	50	1.83	106	72.6	130	0	0		
Toluene	82.39	5.0	50	26.63	112	74.7	129	0	0		
Surr: 4-Bromofluorobenzene	42.97	5.0	50	0	85.9	63.7	115	0	0		
Surr: Dibromofluoromethane	50.55	5.0	50	0	101	70.4	123	0	0		

Qualifiers:
B Analyte detected in the associated Method Blank
BRL Below Reporting Limit
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
N Analyte not NELAC certified
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Consultech Environmental, Inc.
Work Order: 0510C07
Project: George Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID	0510C07-007AMS	SampType:	MS	TestCode:	8260B_W	Units:	µg/L	Prep Date:	10/24/2005	RunNo:	73707
Client ID:	GW-14	Batch ID:	63551	TestNo:	SW8260B			Analysis Date:	10/24/2005	SeqNo:	1454420

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	48.81	5.0	50	0	97.6	73.4	115	0	0		

Sample ID	0510C07-007AMSD	SampType:	MSD	TestCode:	8260B_W	Units:	µg/L	Prep Date:	10/24/2005	RunNo:	73707
Client ID:	GW-14	Batch ID:	63551	TestNo:	SW8260B			Analysis Date:	10/24/2005	SeqNo:	1454421

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	53.84	5.0	50	1.83	104	72.6	130	55.01	2.15	10	
Toluene	79.44	5.0	50	26.63	106	74.7	129	82.39	3.65	10	
Surr: 4-Bromofluorobenzene	41.04	5.0	50	0	82.1	63.7	115	42.97	0	0	
Surr: Dibromofluoromethane	50.72	5.0	50	0	101	70.4	123	50.55	0	0	
Surr: Toluene-d8	48.22	5.0	50	0	96.4	73.4	115	48.81	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

November 02, 2005

Jim Wilson
Consultech Environmental, Inc.
1800 MacLeod Rd
Suite F
Lawrenceville, GA 30043

TEL: (678) 377-0400
FAX (678) 377-0051

RE: George Southers Grocery

Order No.: 0511004

Dear Jim Wilson:

Analytical Environmental Services, Inc. received 2 samples on 11/1/2005 8:00:00 AM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. Sample results are not dry weight corrected, unless if Pmoist analysis are requested on the chain of custody or other project specific arrangements have been made.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 06/01/05-06/30/06.
-AIHA Certification number 505 for analysis of Industrial Hygiene samples (Organics, Inorganics), Paint Chips, Soil and Dust Wipes, effective until 02/01/07.

These results relate only to the items tested. This report may only be reproduced in full and contains 8 total pages (including cover letter).

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

Sincerely,

Mila Crain

Mila Crain
Customer Service Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presential Parkway, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1571004

Date: 10/31/05 Page 1 of 1

COMPANY: Consultech

ADDRESS: 1800 Macland Suite F Lville, GA 30043

PHONE: 678-377-0400

FAX: 678-377-0051

SAMPLED BY: Kevin VanDeVusse

SIGNATURE: VanDeVusse

ANALYSIS REQUESTED: 8260 BTEX / MTBE / NAPH

PRESERVATION (See codes)

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	8260 BTEX/MTBE/NAPH	REMARKS	No # of Containers
1	GW-16	10/31/05	1250	✓		GW	2		
2									
3	GW-17	10/31/05	1320	✓		GW	2		
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1. [signature]	11/1/05 8:05	1. [signature]	11/1/05 8:00
2.		2.	
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS: 100% Rush

SHIPMENT METHOD
OUT / VIA:
IN / VIA:
CLIENT FedEx UPS MAIL COURIER GREYHOUND OTHER

PROJECT INFORMATION
PROJECT NAME: 05-02-015 George Southers Grocery
PROJECT #: 05-02-015
SITE ADDRESS: Campobello, SC
SEND REPORT TO: Jim Wilson
INVOICE TO: (IF DIFFERENT FROM ABOVE)
QUOTE #: PO#:

RECEIPT
Total # of Containers

Turnaround Time Request
- Standard 5 Business Days
- 2 Business Day Rush
- Next Business Day Rush
- Same Day Rush (auth req.)
- Other

STATE PROGRAM (if any)
E-mail? Y N; Fax? Y N
DATA PACKAGE I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
PRESERVATIVE CODES: HCl = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S M+I = Sodium Bisulfate Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc. **Date:** *02-Nov-05*

CLIENT: Consultech Environmental, Inc.
Project: George Southers Grocery
Lab Order: 0511004

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 4th Edition. All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives unless indicated in the case narrative.

Analytical Environmental Services, Inc.

Date: *02-Nov-05*

CLIENT: Consultech Environmental, Inc.
Project: George Southers Grocery
Lab ID: 0511004-001

Client Sample ID: GW-16
Collection Date: 10/31/2005 12:50:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **TMP**
Methyl tert-butyl ether	BRL	1.0		µg/L	63877	1	11/1/2005 5:35 PM
Benzene	BRL	1.0		µg/L	63877	1	11/1/2005 5:35 PM
Toluene	10	1.0		µg/L	63877	1	11/1/2005 5:35 PM
Ethylbenzene	BRL	1.0		µg/L	63877	1	11/1/2005 5:35 PM
m,p-Xylene	3.0	1.0		µg/L	63877	1	11/1/2005 5:35 PM
o-Xylene	1.3	1.0		µg/L	63877	1	11/1/2005 5:35 PM
Naphthalene	BRL	5.0		µg/L	63877	1	11/1/2005 5:35 PM
Surr: 4-Bromofluorobenzene	82.6	63.7-115		%REC	63877	1	11/1/2005 5:35 PM
Surr: Dibromofluoromethane	88.5	70.4-123		%REC	63877	1	11/1/2005 5:35 PM
Surr: Toluene-d8	96.3	73.4-115		%REC	63877	1	11/1/2005 5:35 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *02-Nov-05*

CLIENT: Consultech Environmental, Inc.
Project: George Southers Grocery
Lab ID: 0511004-002

Client Sample ID: GW-17
Collection Date: 10/31/2005 1:20:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **TMP**
Methyl tert-butyl ether	BRL	1.0		µg/L	63877	1	11/1/2005 5:09 PM
Benzene	BRL	1.0		µg/L	63877	1	11/1/2005 5:09 PM
Toluene	5.4	1.0		µg/L	63877	1	11/1/2005 5:09 PM
Ethylbenzene	BRL	1.0		µg/L	63877	1	11/1/2005 5:09 PM
m,p-Xylene	1.5	1.0		µg/L	63877	1	11/1/2005 5:09 PM
o-Xylene	BRL	1.0		µg/L	63877	1	11/1/2005 5:09 PM
Naphthalene	BRL	5.0		µg/L	63877	1	11/1/2005 5:09 PM
Surr: 4-Bromofluorobenzene	78.2	63.7-115		%REC	63877	1	11/1/2005 5:09 PM
Surr: Dibromofluoromethane	88.7	70.4-123		%REC	63877	1	11/1/2005 5:09 PM
Surr: Toluene-d8	94.2	73.4-115		%REC	63877	1	11/1/2005 5:09 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *02-Nov-05*

CLIENT: Consultech Environmental, Inc.
Work Order: 0511004
Project: George Southers Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID **MB-63877** SampType: **MBLK** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/1/2005** RunNo: **74129**
Client ID: Batch ID: **63877** TestNo: **SW8260B** Analysis Date: **11/1/2005** SeqNo: **1463324**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	BRL	5.0									
Ethylbenzene	BRL	5.0									
m,p-Xylene	BRL	10									
Methyl tert-butyl ether	BRL	5.0									
Naphthalene	BRL	5.0									
o-Xylene	BRL	5.0									
Toluene	BRL	5.0									
Surr: 4-Bromofluorobenzene	42.62	5.0	50	0	85.2	63.7	115	0	0		
Surr: Dibromofluoromethane	47.53	5.0	50	0	95.1	70.4	123	0	0		
Surr: Toluene-d8	47.12	5.0	50	0	94.2	73.4	115	0	0		

Sample ID **LCS-63877** SampType: **LCS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/1/2005** RunNo: **74129**
Client ID: Batch ID: **63877** TestNo: **SW8260B** Analysis Date: **11/1/2005** SeqNo: **1463325**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	59.28	5.0	50	0	119	77.4	127	0	0		
Toluene	58.35	5.0	50	0	117	79.6	127	0	0		
Surr: 4-Bromofluorobenzene	41.15	5.0	50	0	82.3	63.7	115	0	0		
Surr: Dibromofluoromethane	45.98	5.0	50	0	92	70.4	123	0	0		
Surr: Toluene-d8	47.05	5.0	50	0	94.1	73.4	115	0	0		

Sample ID **0510E34-020AMS** SampType: **MS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/1/2005** RunNo: **74129**
Client ID: Batch ID: **63877** TestNo: **SW8260B** Analysis Date: **11/1/2005** SeqNo: **1463365**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	61.38	5.0	50	0	123	72.6	130	0	0		
Toluene	62.28	5.0	50	0	125	74.7	129	0	0		
Surr: 4-Bromofluorobenzene	40.03	5.0	50	0	80.1	63.7	115	0	0		
Surr: Dibromofluoromethane	45.22	5.0	50	0	90.4	70.4	123	0	0		

Qualifiers:
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0511004
Project: George Southers Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID 0510E34-020AMS	SampType: MS	TestCode: 8260B_W	Units: µg/L	Prep Date: 11/1/2005	RunNo: 74129
Client ID:	Batch ID: 63877	TestNo: SW8260B		Analysis Date: 11/1/2005	SeqNo: 1463365

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	46.99	5.0	50	0	94	73.4	115	0	0		

Sample ID 0510E34-020AMSD	SampType: MSD	TestCode: 8260B_W	Units: µg/L	Prep Date: 11/1/2005	RunNo: 74129
Client ID:	Batch ID: 63877	TestNo: SW8260B		Analysis Date: 11/1/2005	SeqNo: 1463366

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	61.37	5.0	50	0	123	72.6	130	61.38	0.0163	10	
Toluene	61.6	5.0	50	0	123	74.7	129	62.28	1.10	10	
Surr: 4-Bromofluorobenzene	40.73	5.0	50	0	81.5	63.7	115	40.03	0	0	
Surr: Dibromofluoromethane	44.21	5.0	50	0	88.4	70.4	123	45.22	0	0	
Surr: Toluene-d8	47.1	5.0	50	0	94.2	73.4	115	46.99	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

November 29, 2005

Jim Wilson
Consultech Environmental, Inc.
1800 MacLeod Rd Suite F
Suite F
Lawrenceville, GA 30043

TEL: (678) 377-0400
FAX (678) 377-0051

RE: George Southers Grocery

Order No.: 0511B44

Dear Jim Wilson:

Analytical Environmental Services, Inc. received 8 samples on 11/21/2005 9:37:00 AM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. Sample results are not dry weight corrected, unless if Pmoist analysis are requested on the chain of custody or other project specific arrangements have been made.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 06/01/05-06/30/06.
-AIHA Certification number 505 for analysis of Industrial Hygiene samples (Organics, Inorganics), Paint Chips, Soil and Dust Wipes, effective until 02/01/07.

These results relate only to the items tested. This report may only be reproduced in full and contains 19 total pages (including cover letter).

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

Sincerely,

Mila Crain

Mila Crain
Customer Service Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 11B44

Date: _____ Page _____ of _____

COMPANY: Consultect Env.
ADDRESS: 1800 Macleod Dr. Suite F. Lawrenceville 30043
PHONE: 678-377-0400
FAX:
SAMPLED BY: Drew Miller
SIGNATURE: Drew Miller

ANALYSIS REQUESTED: BTEX MTBE 8260 & Oxygenates; Total Lead; EDB 8011

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	HCl	N	H										REMARKS	No # of Containers
1	MW-1	11/18	1000			GW	2	1	2											5
2	MW 3	11/18	1030																	
3	MW-4	11/18	1045																	
4	MW-7	11/18	1115																	
5	MW-9	11/18	1125																	
6	MW-5	11/18	1100																	
7	MW-14	11/18	1245																	
8																				
9																				
10																				
11																				
12																				
13																				
14																				

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1. Drew Miller	11/21 9:37	1. Marcus D Rushon	11-21-5 9:37
2.		2.	
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS

SHIPMENT METHOD
OUT VIA
IN VIA
(CLIENT) FedEx UPS MAIL COURIER
GREYHOUND OTHER

PROJECT INFORMATION
PROJECT NAME: GEORGE Southern Grocery
PROJECT #: C-05-02-015
SITE ADDRESS:
SEND REPORT TO: Jim Wilburn
INVOICE TO (IF DIFFERENT FROM ABOVE):
QUOTE #: _____ PO#: _____

RECEIPT
Total # of Containers

Turnaround Time Request
- (X) Standard 5 Business Days
- ( ) 2 Business Day Rush
- ( ) Next Business Day Rush
- ( ) Same Day Rush (auth req.)
- ( ) Other _____

STATE PROGRAM (if any) _____
E-mail? Y N Fax? Y N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
PRESERVATIVE CODES: HCl = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice SM+I = Sodium Bisulfate Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc.

Date: *09-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: George Southers Grocery
Lab Order: 0511B44

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 4th Edition. All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives unless indicated in the case narrative.

Volatile Organic Compounds Analysis by Method 8260B:

Matrix spike and matrix spike duplicate recoveries for tert-Butyl formate on sample 0511B44-003AMS/MSD were outside control limits biased low. LCS recovery was within control limits indicating possible matrix interference.

Matrix spike duplicate recovery for tert-Butyl alcohol on sample 0511B44-003AMSD was outside control limits biased high. LCS recovery was within control limits indicating possible matrix interference.

RPD value for tert-Butyl formate on sample 0511B44-003AMSD was outside advisory control limits. The greater than expected variability was the result of values at or near the reporting limit.

Due to sample matrix, samples 0511B44-001A, -004A, -005A, and -006A required dilution during preparation and/or analysis resulting in elevated reporting limits.

EDB Analysis by Method 8011:

Percent recoveries for the surrogate spiking compound on samples 0511B44-001B, MS, MSD, 002B, 004B, 005B and 006B were outside control limits biased low due to matrix interference.

Matrix spike recovery for EDB on sample 0511B44-001B was outside control limits due to insignificant spike amount as compared to sample concentration. LCS recovery was within control limits.

EDB value for the QC sample 0511B44-001BMS is "E" qualified indicating an estimated value over linear calibration range due to the level of target analyte present in the unspiked sample.

Analytical Environmental Services, Inc.

Date: *09-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: George Southers Grocery
Lab ID: 0511B44-001

Client Sample ID: MW-1
Collection Date: 11/18/2005 10:00:00 AM
Matrix: GRQUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	322	96.0		µg/L	64687	5000	11/28/2005 3:44 PM
Surr: 4-Bromofluorobenzene	0	39.4-142	S	%REC	64687	1	11/25/2005 4:03 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	402	1.00		µg/L	64698	1	11/23/2005 3:08 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	12000	N	µg/L	64700	500	11/22/2005 8:12 PM
Ethyl tert-butyl alcohol	BRL	2500	N	µg/L	64700	500	11/22/2005 8:12 PM
Ethyl tert-butyl ether	BRL	2500	N	µg/L	64700	500	11/22/2005 8:12 PM
Isopropyl ether	52000	2500	N	µg/L	64700	500	11/22/2005 8:12 PM
tert-Amyl alcohol	BRL	2500	N	µg/L	64700	500	11/22/2005 8:12 PM
tert-Amyl methyl ether	BRL	2500	N	µg/L	64700	500	11/22/2005 8:12 PM
tert-Butyl Alcohol	BRL	2500	N	µg/L	64700	500	11/22/2005 8:12 PM
tert-Butyl formate	BRL	2500	N	µg/L	64700	500	11/22/2005 8:12 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	10000	500		µg/L	64700	500	11/22/2005 8:12 PM
Benzene	45000	500		µg/L	64700	500	11/22/2005 8:12 PM
1,2-Dichloroethane	BRL	2500		µg/L	64700	500	11/22/2005 8:12 PM
Toluene	620000	5000		µg/L	64700	5000	11/28/2005 12:05 PM
Ethylbenzene	22000	500		µg/L	64700	500	11/22/2005 8:12 PM
m,p-Xylene	79000	500		µg/L	64700	500	11/22/2005 8:12 PM
o-Xylene	29000	500		µg/L	64700	500	11/22/2005 8:12 PM
Naphthalene	6200	2500		µg/L	64700	500	11/22/2005 8:12 PM
Surr: 4-Bromofluorobenzene	95.5	63.7-115		%REC	64700	500	11/22/2005 8:12 PM
Surr: 4-Bromofluorobenzene	87.2	63.7-115		%REC	64700	5000	11/28/2005 12:05 PM
Surr: Dibromofluoromethane	83.9	70.4-123		%REC	64700	5000	11/28/2005 12:05 PM
Surr: Dibromofluoromethane	78.9	70.4-123		%REC	64700	500	11/22/2005 8:12 PM
Surr: Toluene-d8	93.0	73.4-115		%REC	64700	5000	11/28/2005 12:05 PM
Surr: Toluene-d8	93.5	73.4-115		%REC	64700	500	11/22/2005 8:12 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *09-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: George Southers Grocery
Lab ID: 0511B44-002

Client Sample ID: MW-3
Collection Date: 11/18/2005 10:30:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	564	99.0		µg/L	64686	5000	11/25/2005 12:34 PM
Surr: 4-Bromofluorobenzene	0	39.4-142	S	%REC	64686	1	11/25/2005 9:08 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	71.4	1.00		µg/L	64698	1	11/23/2005 2:52 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64700	1	11/22/2005 8:37 PM
Ethyl tert-butyl alcohol	35000	2500	N	µg/L	64700	500	11/28/2005 12:30 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64700	1	11/22/2005 8:37 PM
Isopropyl ether	24000	2500	N	µg/L	64700	500	11/28/2005 12:30 PM
tert-Amyl alcohol	120000	2500	N	µg/L	64700	500	11/28/2005 12:30 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64700	1	11/22/2005 8:37 PM
tert-Butyl Alcohol	13000	2500	N	µg/L	64700	500	11/28/2005 12:30 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64700	1	11/22/2005 8:37 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64700	1	11/22/2005 8:37 PM
Benzene	36000	500		µg/L	64700	500	11/28/2005 12:30 PM
1,2-Dichloroethane	1300	1000		µg/L	64700	500	11/28/2005 12:30 PM
Toluene	46000	500		µg/L	64700	500	11/28/2005 12:30 PM
Ethylbenzene	1700	500		µg/L	64700	500	11/28/2005 12:30 PM
m,p-Xylene	7700	500		µg/L	64700	500	11/28/2005 12:30 PM
o-Xylene	4100	500		µg/L	64700	500	11/28/2005 12:30 PM
Naphthalene	2600	2500		µg/L	64700	500	11/28/2005 12:30 PM
Surr: 4-Bromofluorobenzene	86.3	63.7-115		%REC	64700	500	11/28/2005 12:30 PM
Surr: 4-Bromofluorobenzene	99.2	63.7-115		%REC	64700	1	11/22/2005 8:37 PM
Surr: Dibromofluoromethane	82.6	70.4-123		%REC	64700	500	11/28/2005 12:30 PM
Surr: Dibromofluoromethane	81.5	70.4-123		%REC	64700	1	11/22/2005 8:37 PM
Surr: Toluene-d8	107	73.4-115		%REC	64700	1	11/22/2005 8:37 PM
Surr: Toluene-d8	88.8	73.4-115		%REC	64700	500	11/28/2005 12:30 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *09-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: George Southers Grocery
Lab ID: 0511B44-003

Client Sample ID: MW-4
Collection Date: 11/18/2005 10:45:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	0.211	0.020		µg/L	64686	1	11/25/2005 9:31 AM
Surr: 4-Bromofluorobenzene	83.5	39.4-142		%REC	64686	1	11/25/2005 9:31 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	1.20	1.00		µg/L	64698	1	11/23/2005 3:13 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64700	1	11/22/2005 5:17 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64700	1	11/22/2005 5:17 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64700	1	11/22/2005 5:17 PM
Isopropyl ether	BRL	5.0	N	µg/L	64700	1	11/22/2005 5:17 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64700	1	11/22/2005 5:17 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64700	1	11/22/2005 5:17 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64700	1	11/22/2005 5:17 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64700	1	11/22/2005 5:17 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	3.6	1.0		µg/L	64700	1	11/22/2005 5:17 PM
Benzene	6.4	1.0		µg/L	64700	1	11/22/2005 5:17 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64700	1	11/22/2005 5:17 PM
Toluene	28	1.0		µg/L	64700	1	11/22/2005 5:17 PM
Ethylbenzene	4.0	1.0		µg/L	64700	1	11/22/2005 5:17 PM
m,p-Xylene	17	1.0		µg/L	64700	1	11/22/2005 5:17 PM
o-Xylene	9.0	1.0		µg/L	64700	1	11/22/2005 5:17 PM
Naphthalene	12	5.0		µg/L	64700	1	11/22/2005 5:17 PM
Surr: 4-Bromofluorobenzene	93.7	63.7-115		%REC	64700	1	11/22/2005 5:17 PM
Surr: Dibromofluoromethane	85.7	70.4-123		%REC	64700	1	11/22/2005 5:17 PM
Surr: Toluene-d8	90.7	73.4-115		%REC	64700	1	11/22/2005 5:17 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *09-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: George Southers Grocery
Lab ID: 0511B44-004

Client Sample ID: MW-7
Collection Date: 11/18/2005 11:15:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	246	20.0		µg/L	64686	1000	11/25/2005 12:58 PM
Surr: 4-Bromofluorobenzene	0	39.4-142	S	%REC	64686	1	11/25/2005 9:54 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	78.8	1.00		µg/L	64698	1	11/23/2005 3:18 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	12000	N	µg/L	64700	500	11/22/2005 7:22 PM
Ethyl tert-butyl alcohol	BRL	2500	N	µg/L	64700	500	11/22/2005 7:22 PM
Ethyl tert-butyl ether	BRL	2500	N	µg/L	64700	500	11/22/2005 7:22 PM
Isopropyl ether	62000	2500	N	µg/L	64700	500	11/22/2005 7:22 PM
tert-Amyl alcohol	BRL	2500	N	µg/L	64700	500	11/22/2005 7:22 PM
tert-Amyl methyl ether	BRL	2500	N	µg/L	64700	500	11/22/2005 7:22 PM
tert-Butyl Alcohol	BRL	2500	N	µg/L	64700	500	11/22/2005 7:22 PM
tert-Butyl formate	BRL	2500	N	µg/L	64700	500	11/22/2005 7:22 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	500		µg/L	64700	500	11/22/2005 7:22 PM
Benzene	35000	500		µg/L	64700	500	11/22/2005 7:22 PM
1,2-Dichloroethane	BRL	2500		µg/L	64700	500	11/22/2005 7:22 PM
Toluene	71000	500		µg/L	64700	500	11/22/2005 7:22 PM
Ethylbenzene	3500	500		µg/L	64700	500	11/22/2005 7:22 PM
m,p-Xylene	14000	500		µg/L	64700	500	11/22/2005 7:22 PM
o-Xylene	6400	500		µg/L	64700	500	11/22/2005 7:22 PM
Naphthalene	2700	2500		µg/L	64700	500	11/22/2005 7:22 PM
Surr: 4-Bromofluorobenzene	95.6	63.7-115		%REC	64700	500	11/22/2005 7:22 PM
Surr: Dibromofluoromethane	81.8	70.4-123		%REC	64700	500	11/22/2005 7:22 PM
Surr: Toluene-d8	89.6	73.4-115		%REC	64700	500	11/22/2005 7:22 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *09-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: George Southers Grocery
Lab ID: 0511B44-005

Client Sample ID: MW-9
Collection Date: 11/18/2005 11:45:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	802	99.6		µg/L	64686	5000	11/25/2005 1:21 PM
Surr: 4-Bromofluorobenzene	0	39.4-142	S	%REC	64686	1	11/25/2005 10:39 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	3.14	1.00		µg/L	64698	1	11/23/2005 3:24 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	12000	N	µg/L	64700	500	11/22/2005 7:47 PM
Ethyl tert-butyl alcohol	BRL	2500	N	µg/L	64700	500	11/22/2005 7:47 PM
Ethyl tert-butyl ether	BRL	2500	N	µg/L	64700	500	11/22/2005 7:47 PM
Isopropyl ether	8300	2500	N	µg/L	64700	500	11/22/2005 7:47 PM
tert-Amyl alcohol	97000	2500	N	µg/L	64700	500	11/22/2005 7:47 PM
tert-Amyl methyl ether	BRL	2500	N	µg/L	64700	500	11/22/2005 7:47 PM
tert-Butyl Alcohol	BRL	2500	N	µg/L	64700	500	11/22/2005 7:47 PM
tert-Butyl formate	BRL	2500	N	µg/L	64700	500	11/22/2005 7:47 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	500		µg/L	64700	500	11/22/2005 7:47 PM
Benzene	25000	500		µg/L	64700	500	11/22/2005 7:47 PM
1,2-Dichloroethane	1300	1000		µg/L	64700	500	11/22/2005 7:47 PM
Toluene	22000	500		µg/L	64700	500	11/22/2005 7:47 PM
Ethylbenzene	1100	500		µg/L	64700	500	11/22/2005 7:47 PM
m,p-Xylene	4600	500		µg/L	64700	500	11/22/2005 7:47 PM
o-Xylene	3000	500		µg/L	64700	500	11/22/2005 7:47 PM
Naphthalene	2600	2500		µg/L	64700	500	11/22/2005 7:47 PM
Surr: 4-Bromofluorobenzene	94.0	63.7-115		%REC	64700	500	11/22/2005 7:47 PM
Surr: Dibromofluoromethane	83.0	70.4-123		%REC	64700	500	11/22/2005 7:47 PM
Surr: Toluene-d8	90.9	73.4-115		%REC	64700	500	11/22/2005 7:47 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *09-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: George Southers Grocery
Lab ID: 0511B44-006

Client Sample ID: MW-5
Collection Date: 11/18/2005 11:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	1280	103		µg/L	64686	5000	11/25/2005 1:44 PM
Surr: 4-Bromofluorobenzene	0	39.4-142	S	%REC	64686	1	11/25/2005 11:02 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	512	1.00		µg/L	64698	1	11/23/2005 3:29 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	12000	N	µg/L	64700	500	11/22/2005 6:57 PM
Ethyl tert-butyl alcohol	37000	2500	N	µg/L	64700	500	11/22/2005 6:57 PM
Ethyl tert-butyl ether	BRL	2500	N	µg/L	64700	500	11/22/2005 6:57 PM
Isopropyl ether	29000	2500	N	µg/L	64700	500	11/22/2005 6:57 PM
tert-Amyl alcohol	230000	2500	N	µg/L	64700	500	11/22/2005 6:57 PM
tert-Amyl methyl ether	BRL	2500	N	µg/L	64700	500	11/22/2005 6:57 PM
tert-Butyl Alcohol	BRL	2500	N	µg/L	64700	500	11/22/2005 6:57 PM
tert-Butyl formate	BRL	2500	N	µg/L	64700	500	11/22/2005 6:57 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	500		µg/L	64700	500	11/22/2005 6:57 PM
Benzene	40000	500		µg/L	64700	500	11/22/2005 6:57 PM
1,2-Dichloroethane	1400	1000		µg/L	64700	500	11/22/2005 6:57 PM
Toluene	59000	500		µg/L	64700	500	11/22/2005 6:57 PM
Ethylbenzene	3200	500		µg/L	64700	500	11/22/2005 6:57 PM
m,p-Xylene	12000	500		µg/L	64700	500	11/22/2005 6:57 PM
o-Xylene	6000	500		µg/L	64700	500	11/22/2005 6:57 PM
Naphthalene	5500	2500		µg/L	64700	500	11/22/2005 6:57 PM
Surr: 4-Bromofluorobenzene	94.5	63.7-115		%REC	64700	500	11/22/2005 6:57 PM
Surr: Dibromofluoromethane	80.5	70.4-123		%REC	64700	500	11/22/2005 6:57 PM
Surr: Toluene-d8	90.6	73.4-115		%REC	64700	500	11/22/2005 6:57 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *09-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: George Southers Grocery
Lab ID: 0511B44-007

Client Sample ID: MW-17
Collection Date: 11/18/2005 12:45:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	0.239	0.020		µg/L	64686	1	11/25/2005 12:11 PM
Surr: 4-Bromofluorobenzene	68.7	39.4-142		%REC	64686	1	11/25/2005 12:11 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	2.68	1.00		µg/L	64698	1	11/23/2005 3:45 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64700	1	11/22/2005 6:32 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64700	1	11/22/2005 6:32 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64700	1	11/22/2005 6:32 PM
Isopropyl ether	BRL	5.0	N	µg/L	64700	1	11/22/2005 6:32 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64700	1	11/22/2005 6:32 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64700	1	11/22/2005 6:32 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64700	1	11/22/2005 6:32 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64700	1	11/22/2005 6:32 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64700	1	11/22/2005 6:32 PM
Benzene	7.8	1.0		µg/L	64700	1	11/22/2005 6:32 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64700	1	11/22/2005 6:32 PM
Toluene	32	1.0		µg/L	64700	1	11/22/2005 6:32 PM
Ethylbenzene	5.2	1.0		µg/L	64700	1	11/22/2005 6:32 PM
m,p-Xylene	21	1.0		µg/L	64700	1	11/22/2005 6:32 PM
o-Xylene	11	1.0		µg/L	64700	1	11/22/2005 6:32 PM
Naphthalene	13	5.0		µg/L	64700	1	11/22/2005 6:32 PM
Surr: 4-Bromofluorobenzene	94.8	63.7-115		%REC	64700	1	11/22/2005 6:32 PM
Surr: Dibromofluoromethane	85.2	70.4-123		%REC	64700	1	11/22/2005 6:32 PM
Surr: Toluene-d8	94.2	73.4-115		%REC	64700	1	11/22/2005 6:32 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *09-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: George Southers Grocery
Lab ID: 0511B44-008

Client Sample ID: TRIP BLANK
Collection Date: 11/18/2005
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64700	1	11/22/2005 4:02 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64700	1	11/22/2005 4:02 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64700	1	11/22/2005 4:02 PM
Isopropyl ether	BRL	5.0	N	µg/L	64700	1	11/22/2005 4:02 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64700	1	11/22/2005 4:02 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64700	1	11/22/2005 4:02 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64700	1	11/22/2005 4:02 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64700	1	11/22/2005 4:02 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64700	1	11/22/2005 4:02 PM
Benzene	BRL	1.0		µg/L	64700	1	11/22/2005 4:02 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64700	1	11/22/2005 4:02 PM
Toluene	BRL	1.0		µg/L	64700	1	11/22/2005 4:02 PM
Ethylbenzene	BRL	1.0		µg/L	64700	1	11/22/2005 4:02 PM
m,p-Xylene	BRL	1.0		µg/L	64700	1	11/22/2005 4:02 PM
o-Xylene	BRL	1.0		µg/L	64700	1	11/22/2005 4:02 PM
Naphthalene	BRL	5.0		µg/L	64700	1	11/22/2005 4:02 PM
Surr: 4-Bromofluorobenzene	82.8	63.7-115		%REC	64700	1	11/22/2005 4:02 PM
Surr: Dibromofluoromethane	89.4	70.4-123		%REC	64700	1	11/22/2005 4:02 PM
Surr: Toluene-d8	93.3	73.4-115		%REC	64700	1	11/22/2005 4:02 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *29-Nov-05*

CLIENT: Consultech Environmental, Inc.
Work Order: 0511B44
Project: George Southers Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W

Sample ID **MB-64698** SampType: **MBLK** TestCode: **6020_W** Units: **µg/L** Prep Date: **11/23/2005** RunNo: **75293**
Client ID: Batch ID: **64698** TestNo: **SW6020** Analysis Date: **11/23/2005** SeqNo: **1488930**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	BRL	1.00									

Sample ID **LCS-64698** SampType: **LCS** TestCode: **6020_W** Units: **µg/L** Prep Date: **11/23/2005** RunNo: **75293**
Client ID: Batch ID: **64698** TestNo: **SW6020** Analysis Date: **11/23/2005** SeqNo: **1488928**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	104	1.00	100	0	104	85	115	0	0		

Sample ID **0511B44-002CMS** SampType: **MS** TestCode: **6020_W** Units: **µg/L** Prep Date: **11/23/2005** RunNo: **75293**
Client ID: **MW-3** Batch ID: **64698** TestNo: **SW6020** Analysis Date: **11/23/2005** SeqNo: **1488932**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	174.2	1.00	100	71.39	103	70	130	0	0		

Sample ID **0511B44-002CMSD** SampType: **MSD** TestCode: **6020_W** Units: **µg/L** Prep Date: **11/23/2005** RunNo: **75293**
Client ID: **MW-3** Batch ID: **64698** TestNo: **SW6020** Analysis Date: **11/23/2005** SeqNo: **1488934**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	174.6	1.00	100	71.39	103	70	130	174.2	0.229	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0511B44
Project: George Southers Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8011_W

Sample ID	SampType	TestCode	Units	Prep Date	RunNo
MB-64686	MBLK	8011_W	µg/L	11/22/2005	75306
Client ID:	Batch ID: 64686	TestNo: SW8011		Analysis Date: 11/25/2005	SeqNo: 1489273

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	BRL	0.0200									
Surr: 4-Bromofluorobenzene	4.806	0.0500	5	0	96.1	39.4	142	0	0		

Sample ID	SampType	TestCode	Units	Prep Date	RunNo
MB-64687	MBLK	8011_W	µg/L	11/22/2005	75355
Client ID:	Batch ID: 64687	TestNo: SW8011		Analysis Date: 11/25/2005	SeqNo: 1490336

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	BRL	0.0200									
Surr: 4-Bromofluorobenzene	5.173	0.0500	5	0	103	39.4	142	0	0		

Sample ID	SampType	TestCode	Units	Prep Date	RunNo
LCS-64686	LCS	8011_W	µg/L	11/22/2005	75306
Client ID:	Batch ID: 64686	TestNo: SW8011		Analysis Date: 11/25/2005	SeqNo: 1489274

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.087	0.0200	0.1	0	87	55.1	139	0	0		
Surr: 4-Bromofluorobenzene	5.144	0.0500	5	0	103	39.4	142	0	0		

Sample ID	SampType	TestCode	Units	Prep Date	RunNo
LCS-64687	LCS	8011_W	µg/L	11/22/2005	75355
Client ID:	Batch ID: 64687	TestNo: SW8011		Analysis Date: 11/25/2005	SeqNo: 1490339

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.095	0.0200	0.1	0	95	55.1	139	0	0		
Surr: 4-Bromofluorobenzene	5.371	0.0500	5	0	107	39.4	142	0	0		

Sample ID	SampType	TestCode	Units	Prep Date	RunNo
LCSD-64686	LCSD	8011_W	µg/L	11/22/2005	75306
Client ID:	Batch ID: 64686	TestNo: SW8011		Analysis Date: 11/25/2005	SeqNo: 1489275

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.087	0.0200	0.1	0	87	55.1	139	0.087	0	18.5	
Surr: 4-Bromofluorobenzene	5.094	0.0500	5	0	102	39.4	142	5.144	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0511B44
Project: George Southers Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8011_W

Sample ID	SampType	TestCode	Units	Prep Date	RunNo
LCSD-64687	LCSD	8011_W	µg/L	11/22/2005	75355
Client ID:	Batch ID: 64687	TestNo: SW8011		Analysis Date: 11/25/2005	SeqNo: 1490340

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.088	0.0200	0.1	0	88	55.1	139	0.095	7.65	18.5	
Surr: 4-Bromofluorobenzene	4.803	0.0500	5	0	96.1	39.4	142	5.371	0	0	

Sample ID	SampType	TestCode	Units	Prep Date	RunNo
0511A01-021BMS	MS	8011_W	µg/L	11/22/2005	75306
Client ID:	Batch ID: 64686	TestNo: SW8011		Analysis Date: 11/25/2005	SeqNo: 1489278

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.04262	0.0194	0.09687	0	44	40.7	148	0	0		
Surr: 4-Bromofluorobenzene	2.968	0.0484	4.844	0	61.3	39.4	142	0	0		

Sample ID	SampType	TestCode	Units	Prep Date	RunNo
0511B44-001BMS	MS	8011_W	µg/L	11/22/2005	75355
Client ID: MW-1	Batch ID: 64687	TestNo: SW8011		Analysis Date: 11/25/2005	SeqNo: 1490348

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	167.9	0.0203	0.1017	203.2	-34700	40.7	148	0	0		SE
Surr: 4-Bromofluorobenzene	BRL	0.0508	5.084	0	0	39.4	142	0	0		S

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0511B44
Project: George Southers Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_OXY_W

Sample ID **MB-64700** SampType: **MBLK** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/22/2005** RunNo: **75257**
Client ID: Batch ID: **64700** TestNo: **SW8260B** Analysis Date: **11/22/2005** SeqNo: **1488394**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	BRL	25									
Ethyl tert-butyl alcohol	BRL	5.0									
Ethyl tert-butyl ether	BRL	5.0									
Isopropyl ether	BRL	5.0									
Methyl tert-butyl ether	BRL	5.0									
tert-Amyl alcohol	BRL	5.0									
tert-Amyl methyl ether	BRL	5.0									
tert-Butyl Alcohol	BRL	5.0									
tert-Butyl formate	BRL	5.0									

Sample ID **LCS-64700** SampType: **LCS** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/22/2005** RunNo: **75257**
Client ID: Batch ID: **64700** TestNo: **SW8260B** Analysis Date: **11/22/2005** SeqNo: **1488395**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	251.2	25	250	0	100	50	150	0	0		
Ethyl tert-butyl alcohol	235.6	5.0	250	0	94.2	50	150	0	0		
Ethyl tert-butyl ether	53.15	5.0	50	0	106	50	150	0	0		
Isopropyl ether	54.92	5.0	50	0	110	50	150	0	0		
Methyl tert-butyl ether	51.94	5.0	50	0	104	50	150	0	0		
tert-Amyl alcohol	246	5.0	250	0	98.4	50	150	0	0		
tert-Amyl methyl ether	51.11	5.0	50	0	102	50	150	0	0		
tert-Butyl Alcohol	232.5	5.0	250	0	93	50	150	0	0		
tert-Butyl formate	268.4	5.0	250	0	107	50	150	0	0		

Sample ID **0511B44-003AMS** SampType: **MS** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/22/2005** RunNo: **75257**
Client ID: **MW-4** Batch ID: **64700** TestNo: **SW8260B** Analysis Date: **11/22/2005** SeqNo: **1488400**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	224.6	25	250	0	89.8	50	150	0	0		
Ethyl tert-butyl alcohol	253.3	5.0	250	0	101	50	150	0	0		

Qualifiers:
B Analyte detected in the associated Method Blank
BRL Below Reporting Limit
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
N Analyte not NELAC certified
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Consultech Environmental, Inc.
Work Order: 0511B44
Project: George Southers Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_OXY_W

Sample ID	0511B44-003AMS	SampType:	MS	TestCode:	8260B_OXY_	Units:	µg/L	Prep Date:	11/22/2005	RunNo:	75257
Client ID:	MW-4	Batch ID:	64700	TestNo:	SW8260B			Analysis Date:	11/22/2005	SeqNo:	1488400

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethyl tert-butyl ether	54.23	5.0	50	0	108	50	150	0	0		
Isopropyl ether	62.09	5.0	50	3.86	116	50	150	0	0		
Methyl tert-butyl ether	54.97	5.0	50	3.84	102	50	150	0	0		
tert-Amyl alcohol	290.2	5.0	250	0	116	50	150	0	0		
tert-Amyl methyl ether	52.72	5.0	50	0	105	50	150	0	0		
tert-Butyl Alcohol	326.3	5.0	250	0	131	50	150	0	0		
tert-Butyl formate	41.79	5.0	250	0	16.7	50	150	0	0		S

Sample ID	0511B44-003AMSD	SampType:	MSD	TestCode:	8260B_OXY_	Units:	µg/L	Prep Date:	11/22/2005	RunNo:	75257
Client ID:	MW-4	Batch ID:	64700	TestNo:	SW8260B			Analysis Date:	11/22/2005	SeqNo:	1488401

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	306.3	25	250	0	123	50	150	224.6	30.8	40	
Ethyl tert-butyl alcohol	260.8	5.0	250	0	104	50	150	253.3	2.93	40	
Ethyl tert-butyl ether	54.81	5.0	50	0	110	50	150	54.23	1.06	40	
Isopropyl ether	62.27	5.0	50	3.86	117	50	150	62.09	0.289	40	
Methyl tert-butyl ether	54.67	5.0	50	3.84	102	50	150	54.97	0.547	40	
tert-Amyl alcohol	333.3	5.0	250	0	133	50	150	290.2	13.8	40	
tert-Amyl methyl ether	53.56	5.0	50	0	107	50	150	52.72	1.58	40	
tert-Butyl Alcohol	400.3	5.0	250	0	160	50	150	326.3	20.4	40	S
tert-Butyl formate	24.74	5.0	250	0	9.9	50	150	41.79	51.3	40	SR

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0511B44
Project: George Southers Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID **MB-64700** SampType: **MBLK** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/22/2005** RunNo: **75257**
Client ID: Batch ID: **64700** TestNo: **SW8260B** Analysis Date: **11/22/2005** SeqNo: **1488202**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	BRL	5.0									
Ethylbenzene	BRL	5.0									
m,p-Xylene	BRL	10									
Methyl tert-butyl ether	BRL	5.0									
Naphthalene	BRL	5.0									
o-Xylene	BRL	5.0									
Toluene	BRL	5.0									
Surr: 4-Bromofluorobenzene	43.93	5.0	50	0	87.9	63.7	115	0	0		
Surr: Dibromofluoromethane	43.62	5.0	50	0	87.2	70.4	123	0	0		
Surr: Toluene-d8	45.63	5.0	50	0	91.3	73.4	115	0	0		

Sample ID **LCS-64700** SampType: **LCS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/22/2005** RunNo: **75257**
Client ID: Batch ID: **64700** TestNo: **SW8260B** Analysis Date: **11/22/2005** SeqNo: **1488203**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	44.34	5.0	50	0	88.7	77.4	127	0	0		
Toluene	44.55	5.0	50	0	89.1	79.6	127	0	0		
Surr: 4-Bromofluorobenzene	42.62	5.0	50	0	85.2	63.7	115	0	0		
Surr: Dibromofluoromethane	41.86	5.0	50	0	83.7	70.4	123	0	0		
Surr: Toluene-d8	47.07	5.0	50	0	94.1	73.4	115	0	0		

Sample ID **0511B44-003AMS** SampType: **MS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/22/2005** RunNo: **75257**
Client ID: **MW-4** Batch ID: **64700** TestNo: **SW8260B** Analysis Date: **11/22/2005** SeqNo: **1488229**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	57.93	5.0	50	6.4	103	72.6	130	0	0		
Toluene	85.81	5.0	50	27.96	116	74.7	129	0	0		
Surr: 4-Bromofluorobenzene	45.7	5.0	50	0	91.4	63.7	115	0	0		
Surr: Dibromofluoromethane	42.02	5.0	50	0	84	70.4	123	0	0		
Surr: Toluene-d8	46.83	5.0	50	0	93.7	73.4	115	0	0		

Qualifiers:
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0511B44
Project: George Southers Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID	0511B44-003AMSD	SampType:	MSD	TestCode:	8260B_W	Units:	µg/L	Prep Date:	11/22/2005	RunNo:	75257
Client ID:	MW-4	Batch ID:	64700	TestNo:	SW8260B			Analysis Date:	11/22/2005	SeqNo:	1488234

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	56.13	5.0	50	6.4	99.5	72.6	130	57.93	3.16	10	
Toluene	83.92	5.0	50	27.96	112	74.7	129	85.81	2.23	10	
Surr: 4-Bromofluorobenzene	45.98	5.0	50	0	92	63.7	115	45.7	0	0	
Surr: Dibromofluoromethane	40.98	5.0	50	0	82	70.4	123	42.02	0	0	
Surr: Toluene-d8	47.36	5.0	50	0	94.7	73.4	115	46.83	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

November 30, 2005

Jim Wilson
Consultech Environmental, Inc.
1800 MacLeod Rd Suite F
Suite F
Lawrenceville, GA 30043

TEL: (678) 377-0400
FAX (678) 377-0051

RE: Souther's Grocery

Order No.: 0511C76

Dear Jim Wilson:

Analytical Environmental Services, Inc. received 17 samples on 11/23/2005 11:30:00 AM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. Sample results are not dry weight corrected, unless if Pmoist analysis are requested on the chain of custody or other project specific arrangements have been made. AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 06/01/05-06/30/06.
-AIHA Certification number 505 for analysis of Industrial Hygiene samples (Organics, Inorganics), Paint Chips, Soil and Dust Wipes, effective until 02/01/07.

These results relate only to the items tested. This report may only be reproduced in full and contains 42 total pages (including cover letter).

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

Sincerely,

Mila Crain

Mila Crain
Customer Service Manager

35 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770) 457-8188

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 71067 76

Date: _____ Page _____ of _____

COMPANY: Consultech Env.

ADDRESS: 1800 Macland Dr. Suite F

PHONE: 678 377 0400

FAX:

SAMPLED BY: Drew Miller

SIGNATURE: Drew Miller

ANALYSIS REQUESTED: EDB 504 | Nitrate Sulfate | Total Lead | Dissolved Iron | Methane

PRESERVATION (See codes): HCl | - | - | N | - | -

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	EDB 504	Nitrate Sulfate	Total Lead	Dissolved Iron	Methane	REMARKS	No # of Containers
1	MW 6R	11/22	1400		✓	GW	2	2	1	1	1	2		9
2	MW 13R	11/22	1430		✓									
3	MW 18R	11/22	500		✓									
4	MW 27		1530		✓									
5	MW 30		930		✓									
6	MW 31		900		✓									
7	MW 35		1200		✓									
8	MW 36		1000		✓									
9	MW 37		~~1030~~ 1130		✓									
10	MW 38		1030		✓									
11	MW 39		1100		✓									
12	MW 41		1230		✓									
13	MW 42		1300		✓									
14	MW 43	↓	1330	↓	✓	↓	↓	↓	↓	↓	↓			2

RELINQUISHED BY	DATE TIME	RECEIVED BY	DATE TIME
1. Drew Miller	11/22 4:15	1. [illegible]	11/25/05 11:36
2.		2.	
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: VIA
IN: VIA:
CLIENT (FedEx) UPS MAIL COURIER
GREYHOUND OTHER

PROJECT INFORMATION
PROJECT NAME: Southern Crossing
PROJECT #: C 05 03-015
SITE ADDRESS: Campobello S.C.
SEND REPORT TO: Jim Wilson
INVOICE TO (IF DIFFERENT FROM ABOVE):
QUOTE #: PO#:

RECEIPT
Total # of Containers

Turnaround Time Request
(X) Standard 5 Business Days
( ) 2 Business Day Rush
( ) Next Business Day Rush
( ) Same Day Rush (auth req.)
( ) Other

STATE PROGRAM (if any)
E-mail? Y N Fax? Y N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
PRESERVATIVE CODES: H-I = Hydrochloric acid + ice I = Ice only N = Nitric acid S-I = Sulfuric acid + ice S M-I = Sodium Bisulfate Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 511667

Date: _____ Page _____ of 76

COMPANY: Consultech Env.

ADDRESS: 1800 Mockeed Dr. Suite F

PHONE: 678 377 0400

FAX:

SAMPLED BY: Drew Miller

SIGNATURE: Drew Miller

ANALYSIS REQUESTED

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	EPA 504 NAPH (1,2,DBA MBE 2,3,DMN 1,2,DCA 1,3,DCB 1,4,DCB)	EDB 504.1	Nitrate/Sulfate	Total Lead	Dissolved Iron	Methane								No # of Containers
							PRESERVATION (See codes)													
							HCl	-	-	N	-	-								
1	MW-28	11/22	1600	✓		GW	2	2	1	1	1	2								9
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				

REMARKS

RELINQUISHED BY	DATE TIME	RECEIVED BY	DATE/TIME
1. Drew Miller	11/22 4:15	1. [signature]	11/22/05 11:3[illegible]
2.		2.	
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / VIA:
IN / VIA:
CLIENT (FedEx) UPS MAIL COURIER
GREYHOUND OTHER___

PROJECT INFORMATION
PROJECT NAME: Southern Gregory
PROJECT #: C05-02-015
SITE ADDRESS: Campobello S.C.
SEND REPORT TO: Jim W. 1500
INVOICE TO (IF DIFFERENT FROM ABOVE):
QUOTE # _____ PO# _____

RECEIPT
Total # of Containers

Turnaround Time Request
⊗ Standard 5 Business Days
○ 2 Business Day Rush
○ Next Business Day Rush
○ Same Day Rush (auth req.)
○ Other _____

STATE PROGRAM (if any) ____
E-mail? Y N, Fax? Y N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate Methanol + ice O = Other (specify) NA = None

White Copy - Original: Yellow Copy - Client

Analytical Environmental Services, Inc. **Date:** *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab Order: 0511C76

CASE NARRATIVE

Sample Receipt Non-Conformance:

Two sets of Trip Blanks were provided but are not listed on the COC. Trip blanks will be analyzed at no cost to the client.

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 4th Edition. All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives unless indicated in the case narrative.

Volatile Organic Compounds Analysis by Method 8260B:

Matrix spike and matrix spike duplicate recoveries for Ethanol and tert-Butyl Alcohol on sample 0511C76-009AMS/MSD were outside control limits biased high. LCS recovery was within control limits indicating possible matrix interference.

Matrix spike and matrix spike duplicate recoveries for tert-Butyl formate on sample 0511C76-009AMS/MSD were outside control limits biased low. LCS recovery was within control limits indicating possible matrix interference.

Due to sample matrix, samples 0511C76-001A, -008A, and -015A required dilution during preparation and/or analysis resulting in elevated reporting limits.

GC Analysis of Gaseous Samples by Method RSKSOP-175:

Matrix spike duplicate analysis was not performed with Batch 64840 per NELAC requirements due to insufficient sample volume.

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0511C76-001

Client Sample ID: MW-6R
Collection Date: 11/22/2005 2:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	0.057	0.020		µg/L	64784	1	11/29/2005 6:35 PM
Surr: 4-Bromofluorobenzene	86.8	39.4-142		%REC	64784	1	11/29/2005 6:35 PM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	BRL	4.0		µg/L	64840	1	11/29/2005 2:51 PM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	BRL	0.25		mg/L		1	11/23/2005 1:50 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	9.7	1.0		mg/L		1	11/23/2005 1:50 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	12.5	1.00		µg/L	64713	1	11/29/2005 1:42 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	182	100		µg/L	64712	1	11/30/2005 2:46 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	250	N	µg/L	64780	10	11/28/2005 2:10 PM
Ethyl tert-butyl alcohol	BRL	50	N	µg/L	64780	10	11/28/2005 2:10 PM
Ethyl tert-butyl ether	BRL	50	N	µg/L	64780	10	11/28/2005 2:10 PM
Isopropyl ether	BRL	50	N	µg/L	64780	10	11/28/2005 2:10 PM
tert-Amyl alcohol	BRL	50	N	µg/L	64780	10	11/28/2005 2:10 PM
tert-Amyl methyl ether	BRL	50	N	µg/L	64780	10	11/28/2005 2:10 PM
tert-Butyl Alcohol	BRL	50	N	µg/L	64780	10	11/28/2005 2:10 PM
tert-Butyl formate	BRL	50	N	µg/L	64780	10	11/28/2005 2:10 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	10		µg/L	64780	10	11/28/2005 2:10 PM
Benzene	15	10		µg/L	64780	10	11/28/2005 2:10 PM
1,2-Dichloroethane	BRL	50		µg/L	64780	10	11/28/2005 2:10 PM
Toluene	480	10		µg/L	64780	10	11/28/2005 2:10 PM
Ethylbenzene	140	10		µg/L	64780	10	11/28/2005 2:10 PM
m,p-Xylene	590	10		µg/L	64780	10	11/28/2005 2:10 PM
o-Xylene	200	10		µg/L	64780	10	11/28/2005 2:10 PM
Naphthalene	79	50		µg/L	64780	10	11/28/2005 2:10 PM
Surr: 4-Bromofluorobenzene	91.6	63.7-115		%REC	64780	10	11/28/2005 2:10 PM
Surr: Dibromofluoromethane	81.6	70.4-123		%REC	64780	10	11/28/2005 2:10 PM
Surr: Toluene-d8	95.4	73.4-115		%REC	64780	10	11/28/2005 2:10 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0511C76-002

Client Sample ID: MW-13R
Collection Date: 11/22/2005 2:30:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	0.041	0.020		µg/L	64784	1	11/29/2005 6:58 PM
Surr: 4-Bromofluorobenzene	85.5	39.4-142		%REC	64784	1	11/29/2005 6:58 PM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	BRL	4.0		µg/L	64840	1	11/29/2005 3:00 PM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	0.26	0.25		mg/L		1	11/23/2005 2:05 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	3.7	1.0		mg/L		1	11/23/2005 2:05 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	BRL	1.00		µg/L	64713	1	11/29/2005 1:48 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	605	100		µg/L	64712	1	11/30/2005 2:30 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64780	1	11/28/2005 6:20 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 6:20 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 6:20 PM
Isopropyl ether	6.9	5.0	N	µg/L	64780	1	11/28/2005 6:20 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 6:20 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 6:20 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 6:20 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64780	1	11/28/2005 6:20 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64780	1	11/28/2005 6:20 PM
Benzene	BRL	1.0		µg/L	64780	1	11/28/2005 6:20 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64780	1	11/28/2005 6:20 PM
Toluene	BRL	1.0		µg/L	64780	1	11/28/2005 6:20 PM
Ethylbenzene	BRL	1.0		µg/L	64780	1	11/28/2005 6:20 PM
m,p-Xylene	BRL	1.0		µg/L	64780	1	11/28/2005 6:20 PM
o-Xylene	BRL	1.0		µg/L	64780	1	11/28/2005 6:20 PM
Naphthalene	BRL	5.0		µg/L	64780	1	11/28/2005 6:20 PM
Surr: 4-Bromofluorobenzene	78.5	63.7-115		%REC	64780	1	11/28/2005 6:20 PM
Surr: Dibromofluoromethane	90.3	70.4-123		%REC	64780	1	11/28/2005 6:20 PM
Surr: Toluene-d8	91.9	73.4-115		%REC	64780	1	11/28/2005 6:20 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0511C76-003

Client Sample ID: MW-18R
Collection Date: 11/22/2005 3:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	64784	1	11/29/2005 7:21 PM
Surr: 4-Bromofluorobenzene	85.5	39.4-142		%REC	64784	1	11/29/2005 7:21 PM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	BRL	4.0		µg/L	64840	1	11/29/2005 3:08 PM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	0.81	0.25		mg/L		1	11/23/2005 2:19 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	BRL	1.0		mg/L		1	11/23/2005 2:19 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	11.4	1.00		µg/L	64713	1	11/29/2005 1:53 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	BRL	100		µg/L	64712	1	11/30/2005 2:51 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64825	1	11/29/2005 5:38 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64825	1	11/29/2005 5:38 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64825	1	11/29/2005 5:38 PM
Isopropyl ether	BRL	5.0	N	µg/L	64825	1	11/29/2005 5:38 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64825	1	11/29/2005 5:38 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64825	1	11/29/2005 5:38 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64825	1	11/29/2005 5:38 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64825	1	11/29/2005 5:38 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64825	1	11/29/2005 5:38 PM
Benzene	BRL	1.0		µg/L	64825	1	11/29/2005 5:38 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64825	1	11/29/2005 5:38 PM
Toluene	BRL	1.0		µg/L	64825	1	11/29/2005 5:38 PM
Ethylbenzene	BRL	1.0		µg/L	64825	1	11/29/2005 5:38 PM
m,p-Xylene	BRL	1.0		µg/L	64825	1	11/29/2005 5:38 PM
o-Xylene	BRL	1.0		µg/L	64825	1	11/29/2005 5:38 PM
Naphthalene	BRL	5.0		µg/L	64825	1	11/29/2005 5:38 PM
Surr: 4-Bromofluorobenzene	83.7	63.7-115		%REC	64825	1	11/29/2005 5:38 PM
Surr: Dibromofluoromethane	82.2	70.4-123		%REC	64825	1	11/29/2005 5:38 PM
Surr: Toluene-d8	86.7	73.4-115		%REC	64825	1	11/29/2005 5:38 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0511C76-004

Client Sample ID: MW-27
Collection Date: 11/22/2005 3:30:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	64784	1	11/29/2005 7:44 PM
Surr: 4-Bromofluorobenzene	92.4	39.4-142		%REC	64784	1	11/29/2005 7:44 PM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	BRL	4.0		µg/L	64840	1	11/29/2005 3:32 PM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	13	0.50		mg/L		2	11/23/2005 6:59 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	1.9	1.0		mg/L		1	11/23/2005 2:34 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	4.29	1.00		µg/L	64713	1	11/29/2005 1:58 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	BRL	100		µg/L	64712	1	11/30/2005 12:44 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64780	1	11/28/2005 6:45 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 6:45 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 6:45 PM
Isopropyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 6:45 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 6:45 PM
tert-Amyl methyl ether	7.4	5.0	N	µg/L	64780	1	11/28/2005 6:45 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 6:45 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64780	1	11/28/2005 6:45 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	20	1.0		µg/L	64780	1	11/28/2005 6:45 PM
Benzene	BRL	1.0		µg/L	64780	1	11/28/2005 6:45 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64780	1	11/28/2005 6:45 PM
Toluene	BRL	1.0		µg/L	64780	1	11/28/2005 6:45 PM
Ethylbenzene	BRL	1.0		µg/L	64780	1	11/28/2005 6:45 PM
m,p-Xylene	BRL	1.0		µg/L	64780	1	11/28/2005 6:45 PM
o-Xylene	2.7	1.0		µg/L	64780	1	11/28/2005 6:45 PM
Naphthalene	BRL	5.0		µg/L	64780	1	11/28/2005 6:45 PM
Surr: 4-Bromofluorobenzene	76.1	63.7-115		%REC	64780	1	11/28/2005 6:45 PM
Surr: Dibromofluoromethane	85.8	70.4-123		%REC	64780	1	11/28/2005 6:45 PM
Surr: Toluene-d8	90.2	73.4-115		%REC	64780	1	11/28/2005 6:45 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0511C76-005

Client Sample ID: MW-30
Collection Date: 11/22/2005 9:30:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	0.158	0.020		µg/L	64784	1	11/29/2005 8:07 PM
Surr: 4-Bromofluorobenzene	86.9	39.4-142		%REC	64784	1	11/29/2005 8:07 PM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	BRL	4.0		µg/L	64840	1	11/29/2005 3:41 PM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	BRL	0.25		mg/L		1	11/23/2005 2:49 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	BRL	1.0		mg/L		1	11/23/2005 2:49 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	61.2	1.00		µg/L	64713	1	11/29/2005 2:04 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	BRL	100		µg/L	64712	1	11/30/2005 12:50 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64780	1	11/28/2005 7:10 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 7:10 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 7:10 PM
Isopropyl ether	38	5.0	N	µg/L	64780	1	11/28/2005 7:10 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 7:10 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 7:10 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 7:10 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64780	1	11/28/2005 7:10 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64780	1	11/28/2005 7:10 PM
Benzene	5.4	1.0		µg/L	64780	1	11/28/2005 7:10 PM
1,2-Dichloroethane	5.2	5.0		µg/L	64780	1	11/28/2005 7:10 PM
Toluene	31	1.0		µg/L	64780	1	11/28/2005 7:10 PM
Ethylbenzene	5.0	1.0		µg/L	64780	1	11/28/2005 7:10 PM
m,p-Xylene	19	1.0		µg/L	64780	1	11/28/2005 7:10 PM
o-Xylene	8.8	1.0		µg/L	64780	1	11/28/2005 7:10 PM
Naphthalene	5.2	5.0		µg/L	64780	1	11/28/2005 7:10 PM
Surr: 4-Bromofluorobenzene	86.8	63.7-115		%REC	64780	1	11/28/2005 7:10 PM
Surr: Dibromofluoromethane	83.6	70.4-123		%REC	64780	1	11/28/2005 7:10 PM
Surr: Toluene-d8	91.0	73.4-115		%REC	64780	1	11/28/2005 7:10 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0511C76-006

Client Sample ID: MW-31
Collection Date: 11/22/2005 9:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	64784	1	11/29/2005 8:30 PM
Surr: 4-Bromofluorobenzene	97.0	39.4-142		%REC	64784	1	11/29/2005 8:30 PM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	BRL	4.0		µg/L	64840	1	11/29/2005 4:06 PM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	0.66	0.25		mg/L		1	11/23/2005 3:04 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	4.8	1.0		mg/L		1	11/23/2005 3:04 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	189	1.00		µg/L	64713	1	11/29/2005 2:20 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	199	100		µg/L	64712	1	11/30/2005 3:18 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64780	1	11/28/2005 7:35 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 7:35 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 7:35 PM
Isopropyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 7:35 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 7:35 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 7:35 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 7:35 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64780	1	11/28/2005 7:35 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64780	1	11/28/2005 7:35 PM
Benzene	BRL	1.0		µg/L	64780	1	11/28/2005 7:35 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64780	1	11/28/2005 7:35 PM
Toluene	BRL	1.0		µg/L	64780	1	11/28/2005 7:35 PM
Ethylbenzene	BRL	1.0		µg/L	64780	1	11/28/2005 7:35 PM
m,p-Xylene	BRL	1.0		µg/L	64780	1	11/28/2005 7:35 PM
o-Xylene	BRL	1.0		µg/L	64780	1	11/28/2005 7:35 PM
Naphthalene	BRL	5.0		µg/L	64780	1	11/28/2005 7:35 PM
Surr: 4-Bromofluorobenzene	78.5	63.7-115		%REC	64780	1	11/28/2005 7:35 PM
Surr: Dibromofluoromethane	90.4	70.4-123		%REC	64780	1	11/28/2005 7:35 PM
Surr: Toluene-d8	91.8	73.4-115		%REC	64780	1	11/28/2005 7:35 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0511C76-007

Client Sample ID: MW-35
Collection Date: 11/22/2005 12:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	64784	1	11/29/2005 8:53 PM
Surr: 4-Bromofluorobenzene	91.6	39.4-142		%REC	64784	1	11/29/2005 8:53 PM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	11	4.0		µg/L	64840	1	11/29/2005 4:28 PM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	BRL	0.25		mg/L		1	11/23/2005 3:48 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	3.8	1.0		mg/L		1	11/23/2005 3:48 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	2.20	1.00		µg/L	64713	1	11/29/2005 2:25 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	BRL	100		µg/L	64712	1	11/30/2005 1:11 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64780	1	11/28/2005 8:01 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:01 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:01 PM
Isopropyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:01 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:01 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:01 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:01 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:01 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64780	1	11/28/2005 8:01 PM
Benzene	BRL	1.0		µg/L	64780	1	11/28/2005 8:01 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64780	1	11/28/2005 8:01 PM
Toluene	BRL	1.0		µg/L	64780	1	11/28/2005 8:01 PM
Ethylbenzene	BRL	1.0		µg/L	64780	1	11/28/2005 8:01 PM
m,p-Xylene	2.1	1.0		µg/L	64780	1	11/28/2005 8:01 PM
o-Xylene	3.1	1.0		µg/L	64780	1	11/28/2005 8:01 PM
Naphthalene	BRL	5.0		µg/L	64780	1	11/28/2005 8:01 PM
Surr: 4-Bromofluorobenzene	83.7	63.7-115		%REC	64780	1	11/28/2005 8:01 PM
Surr: Dibromofluoromethane	89.2	70.4-123		%REC	64780	1	11/28/2005 8:01 PM
Surr: Toluene-d8	94.7	73.4-115		%REC	64780	1	11/28/2005 8:01 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc. **Client Sample ID:** MW-36
Project: Souther's Grocery **Collection Date:** 11/22/2005 10:00:00 AM
Lab ID: 0511C76-008 **Matrix:** GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	64784	1	11/29/2005 9:16 PM
Surr: 4-Bromofluorobenzene	103	39.4-142		%REC	64784	1	11/29/2005 9:16 PM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	15	4.0		µg/L	64840	1	11/29/2005 4:50 PM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	BRL	0.25		mg/L		1	11/23/2005 4:02 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	4.9	1.0		mg/L		1	11/23/2005 4:02 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	661	1.00		µg/L	64713	1	11/29/2005 2:30 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	BRL	100		µg/L	64712	1	11/30/2005 1:16 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	12000	N	µg/L	64780	500	11/28/2005 1:45 PM
Ethyl tert-butyl alcohol	BRL	2500	N	µg/L	64780	500	11/28/2005 1:45 PM
Ethyl tert-butyl ether	BRL	2500	N	µg/L	64780	500	11/28/2005 1:45 PM
Isopropyl ether	BRL	2500	N	µg/L	64780	500	11/28/2005 1:45 PM
tert-Amyl alcohol	BRL	2500	N	µg/L	64780	500	11/28/2005 1:45 PM
tert-Amyl methyl ether	BRL	2500	N	µg/L	64780	500	11/28/2005 1:45 PM
tert-Butyl Alcohol	BRL	2500	N	µg/L	64780	500	11/28/2005 1:45 PM
tert-Butyl formate	BRL	2500	N	µg/L	64780	500	11/28/2005 1:45 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	500		µg/L	64780	500	11/28/2005 1:45 PM
Benzene	BRL	500		µg/L	64780	500	11/28/2005 1:45 PM
1,2-Dichloroethane	BRL	2500		µg/L	64780	500	11/28/2005 1:45 PM
Toluene	5800	500		µg/L	64780	500	11/28/2005 1:45 PM
Ethylbenzene	1300	500		µg/L	64780	500	11/28/2005 1:45 PM
m,p-Xylene	5600	500		µg/L	64780	500	11/28/2005 1:45 PM
o-Xylene	2900	500		µg/L	64780	500	11/28/2005 1:45 PM
Naphthalene	2500	2500		µg/L	64780	500	11/28/2005 1:45 PM
Surr: 4-Bromofluorobenzene	83.9	63.7-115		%REC	64780	500	11/28/2005 1:45 PM
Surr: Dibromofluoromethane	86.1	70.4-123		%REC	64780	500	11/28/2005 1:45 PM
Surr: Toluene-d8	95.0	73.4-115		%REC	64780	500	11/28/2005 1:45 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0511C76-009

Client Sample ID: MW-37
Collection Date: 11/22/2005 11:30:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	64784	1	11/29/2005 9:39 PM
Surr: 4-Bromofluorobenzene	90.4	39.4-142		%REC	64784	1	11/29/2005 9:39 PM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	BRL	4.0		µg/L	64840	1	11/29/2005 5:03 PM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	0.33	0.25		mg/L		1	11/23/2005 4:47 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	1.9	1.0		mg/L		1	11/23/2005 4:47 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	14.9	1.00		µg/L	64713	1	11/29/2005 2:35 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	BRL	100		µg/L	64712	1	11/30/2005 1:21 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64780	1	11/28/2005 5:05 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 5:05 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 5:05 PM
Isopropyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 5:05 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 5:05 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 5:05 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 5:05 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64780	1	11/28/2005 5:05 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64780	1	11/28/2005 5:05 PM
Benzene	BRL	1.0		µg/L	64780	1	11/28/2005 5:05 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64780	1	11/28/2005 5:05 PM
Toluene	4.8	1.0		µg/L	64780	1	11/28/2005 5:05 PM
Ethylbenzene	BRL	1.0		µg/L	64780	1	11/28/2005 5:05 PM
m,p-Xylene	2.4	1.0		µg/L	64780	1	11/28/2005 5:05 PM
o-Xylene	3.4	1.0		µg/L	64780	1	11/28/2005 5:05 PM
Naphthalene	BRL	5.0		µg/L	64780	1	11/28/2005 5:05 PM
Surr: 4-Bromofluorobenzene	80.0	63.7-115		%REC	64780	1	11/28/2005 5:05 PM
Surr: Dibromofluoromethane	85.3	70.4-123		%REC	64780	1	11/28/2005 5:05 PM
Surr: Toluene-d8	93.3	73.4-115		%REC	64780	1	11/28/2005 5:05 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0511C76-010

Client Sample ID: MW-38
Collection Date: 11/22/2005 10:30:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	64784	1	11/29/2005 10:03 PM
Surr: 4-Bromofluorobenzene	94.4	39.4-142		%REC	64784	1	11/29/2005 10:03 PM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	BRL	4.0		µg/L	64840	1	11/30/2005 9:10 AM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	0.33	0.25		mg/L		1	11/23/2005 5:01 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	3.9	1.0		mg/L		1	11/23/2005 5:01 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	614	1.00		µg/L	64713	1	11/29/2005 2:41 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	109	100		µg/L	64712	1	11/30/2005 3:23 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64780	1	11/28/2005 8:26 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:26 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:26 PM
Isopropyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:26 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:26 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:26 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:26 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:26 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64780	1	11/28/2005 8:26 PM
Benzene	BRL	1.0		µg/L	64780	1	11/28/2005 8:26 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64780	1	11/28/2005 8:26 PM
Toluene	1.9	1.0		µg/L	64780	1	11/28/2005 8:26 PM
Ethylbenzene	1.1	1.0		µg/L	64780	1	11/28/2005 8:26 PM
m,p-Xylene	4.0	1.0		µg/L	64780	1	11/28/2005 8:26 PM
o-Xylene	3.6	1.0		µg/L	64780	1	11/28/2005 8:26 PM
Naphthalene	5.0	5.0		µg/L	64780	1	11/28/2005 8:26 PM
Surr: 4-Bromofluorobenzene	83.0	63.7-115		%REC	64780	1	11/28/2005 8:26 PM
Surr: Dibromofluoromethane	86.1	70.4-123		%REC	64780	1	11/28/2005 8:26 PM
Surr: Toluene-d8	93.1	73.4-115		%REC	64780	1	11/28/2005 8:26 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0511C76-011

Client Sample ID: MW-39
Collection Date: 11/22/2005 11:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	64784	1	11/29/2005 10:49 PM
Surr: 4-Bromofluorobenzene	88.8	39.4-142		%REC	64784	1	11/29/2005 10:49 PM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	BRL	4.0		µg/L	64840	1	11/30/2005 9:24 AM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	BRL	0.25		mg/L		1	11/23/2005 5:16 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	1.6	1.0		mg/L		1	11/23/2005 5:16 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	1.28	1.00		µg/L	64713	1	11/29/2005 2:46 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	BRL	100		µg/L	64712	1	11/30/2005 1:32 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64780	1	11/28/2005 8:51 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:51 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:51 PM
Isopropyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:51 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:51 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:51 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:51 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64780	1	11/28/2005 8:51 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64780	1	11/28/2005 8:51 PM
Benzene	1.1	1.0		µg/L	64780	1	11/28/2005 8:51 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64780	1	11/28/2005 8:51 PM
Toluene	33	1.0		µg/L	64780	1	11/28/2005 8:51 PM
Ethylbenzene	3.9	1.0		µg/L	64780	1	11/28/2005 8:51 PM
m,p-Xylene	12	1.0		µg/L	64780	1	11/28/2005 8:51 PM
o-Xylene	5.6	1.0		µg/L	64780	1	11/28/2005 8:51 PM
Naphthalene	BRL	5.0		µg/L	64780	1	11/28/2005 8:51 PM
Surr: 4-Bromofluorobenzene	84.8	63.7-115		%REC	64780	1	11/28/2005 8:51 PM
Surr: Dibromofluoromethane	86.7	70.4-123		%REC	64780	1	11/28/2005 8:51 PM
Surr: Toluene-d8	92.2	73.4-115		%REC	64780	1	11/28/2005 8:51 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0511C76-012

Client Sample ID: MW-41
Collection Date: 11/22/2005 12:30:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	64784	1	11/29/2005 11:12 PM
Surr: 4-Bromofluorobenzene	99.7	39.4-142		%REC	64784	1	11/29/2005 11:12 PM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	BRL	4.0		µg/L	64840	1	11/30/2005 9:37 AM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	0.28	0.25		mg/L		1	11/23/2005 5:31 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	BRL	1.0		mg/L		1	11/23/2005 5:31 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	BRL	1.00		µg/L	64713	1	11/29/2005 2:51 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	BRL	100		µg/L	64712	1	11/30/2005 1:37 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64780	1	11/28/2005 9:16 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 9:16 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 9:16 PM
Isopropyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 9:16 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 9:16 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64780	1	11/28/2005 9:16 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64780	1	11/28/2005 9:16 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64780	1	11/28/2005 9:16 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64780	1	11/28/2005 9:16 PM
Benzene	BRL	1.0		µg/L	64780	1	11/28/2005 9:16 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64780	1	11/28/2005 9:16 PM
Toluene	BRL	1.0		µg/L	64780	1	11/28/2005 9:16 PM
Ethylbenzene	BRL	1.0		µg/L	64780	1	11/28/2005 9:16 PM
m,p-Xylene	BRL	1.0		µg/L	64780	1	11/28/2005 9:16 PM
o-Xylene	BRL	1.0		µg/L	64780	1	11/28/2005 9:16 PM
Naphthalene	BRL	5.0		µg/L	64780	1	11/28/2005 9:16 PM
Surr: 4-Bromofluorobenzene	78.1	63.7-115		%REC	64780	1	11/28/2005 9:16 PM
Surr: Dibromofluoromethane	86.7	70.4-123		%REC	64780	1	11/28/2005 9:16 PM
Surr: Toluene-d8	91.4	73.4-115		%REC	64780	1	11/28/2005 9:16 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0511C76-013

Client Sample ID: MW-42
Collection Date: 11/22/2005 1:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	64784	1	11/29/2005 11:35 PM
Surr: 4-Bromofluorobenzene	90.8	39.4-142		%REC	64784	1	11/29/2005 11:35 PM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	BRL	4.0		µg/L	64840	1	11/30/2005 9:47 AM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	0.41	0.25		mg/L		1	11/23/2005 5:46 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	BRL	1.0		mg/L		1	11/23/2005 5:46 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	2.87	1.00		µg/L	64713	1	11/29/2005 2:56 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	BRL	100		µg/L	64712	1	11/30/2005 1:42 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64825	1	11/29/2005 6:02 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64825	1	11/29/2005 6:02 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64825	1	11/29/2005 6:02 PM
Isopropyl ether	BRL	5.0	N	µg/L	64825	1	11/29/2005 6:02 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64825	1	11/29/2005 6:02 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64825	1	11/29/2005 6:02 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64825	1	11/29/2005 6:02 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64825	1	11/29/2005 6:02 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64825	1	11/29/2005 6:02 PM
Benzene	BRL	1.0		µg/L	64825	1	11/29/2005 6:02 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64825	1	11/29/2005 6:02 PM
Toluene	BRL	1.0		µg/L	64825	1	11/29/2005 6:02 PM
Ethylbenzene	BRL	1.0		µg/L	64825	1	11/29/2005 6:02 PM
m,p-Xylene	BRL	1.0		µg/L	64825	1	11/29/2005 6:02 PM
o-Xylene	BRL	1.0		µg/L	64825	1	11/29/2005 6:02 PM
Naphthalene	BRL	5.0		µg/L	64825	1	11/29/2005 6:02 PM
Surr: 4-Bromofluorobenzene	79.7	63.7-115		%REC	64825	1	11/29/2005 6:02 PM
Surr: Dibromofluoromethane	84.1	70.4-123		%REC	64825	1	11/29/2005 6:02 PM
Surr: Toluene-d8	86.9	73.4-115		%REC	64825	1	11/29/2005 6:02 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc. **Client Sample ID:** MW-43
Project: Souther's Grocery **Collection Date:** 11/22/2005 1:30:00 PM
Lab ID: 0511C76-014 **Matrix:** GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	64784	1	11/29/2005 11:58 PM
Surr: 4-Bromofluorobenzene	84.0	39.4-142		%REC	64784	1	11/29/2005 11:58 PM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	BRL	4.0		µg/L	64840	1	11/30/2005 9:57 AM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	0.71	0.25		mg/L		1	11/23/2005 4:17 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	BRL	1.0		mg/L		1	11/23/2005 4:17 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	1.25	1.00		µg/L	64713	1	11/29/2005 3:02 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	BRL	100		µg/L	64712	1	11/30/2005 1:48 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64825	1	11/30/2005 2:58 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64825	1	11/30/2005 2:58 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64825	1	11/30/2005 2:58 PM
Isopropyl ether	BRL	5.0	N	µg/L	64825	1	11/30/2005 2:58 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64825	1	11/30/2005 2:58 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64825	1	11/30/2005 2:58 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64825	1	11/30/2005 2:58 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64825	1	11/30/2005 2:58 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64825	1	11/30/2005 2:58 PM
Benzene	BRL	1.0		µg/L	64825	1	11/30/2005 2:58 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64825	1	11/30/2005 2:58 PM
Toluene	BRL	1.0		µg/L	64825	1	11/30/2005 2:58 PM
Ethylbenzene	BRL	1.0		µg/L	64825	1	11/30/2005 2:58 PM
m,p-Xylene	BRL	1.0		µg/L	64825	1	11/30/2005 2:58 PM
o-Xylene	BRL	1.0		µg/L	64825	1	11/30/2005 2:58 PM
Naphthalene	BRL	5.0		µg/L	64825	1	11/30/2005 2:58 PM
Surr: 4-Bromofluorobenzene	81.6	63.7-115		%REC	64825	1	11/30/2005 2:58 PM
Surr: Dibromofluoromethane	86.1	70.4-123		%REC	64825	1	11/30/2005 2:58 PM
Surr: Toluene-d8	92.2	73.4-115		%REC	64825	1	11/30/2005 2:58 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc. **Client Sample ID:** MW-28
Project: Souther's Grocery **Collection Date:** 11/22/2005 4:00:00 PM
Lab ID: 0511C76-015 **Matrix:** GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	64785	1	11/30/2005 3:02 AM
Surr: 4-Bromofluorobenzene	119	39.4-142		%REC	64785	1	11/30/2005 3:02 AM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	500	20		µg/L	64840	5	11/30/2005 10:38 AM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	4.1	0.25		mg/L		1	11/23/2005 6:00 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	39	1.0		mg/L		1	11/23/2005 6:00 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	5.96	1.00		µg/L	64713	1	11/29/2005 1:27 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	BRL	100		µg/L	64712	1	11/30/2005 1:53 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	1200	N	µg/L	64825	50	11/29/2005 5:13 PM
Ethyl tert-butyl alcohol	BRL	250	N	µg/L	64825	50	11/29/2005 5:13 PM
Ethyl tert-butyl ether	BRL	250	N	µg/L	64825	50	11/29/2005 5:13 PM
Isopropyl ether	BRL	250	N	µg/L	64825	50	11/29/2005 5:13 PM
tert-Amyl alcohol	BRL	250	N	µg/L	64825	50	11/29/2005 5:13 PM
tert-Amyl methyl ether	BRL	250	N	µg/L	64825	50	11/29/2005 5:13 PM
tert-Butyl Alcohol	BRL	250	N	µg/L	64825	50	11/29/2005 5:13 PM
tert-Butyl formate	BRL	250	N	µg/L	64825	50	11/29/2005 5:13 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	50		µg/L	64825	50	11/29/2005 5:13 PM
Benzene	94	50		µg/L	64825	50	11/29/2005 5:13 PM
1,2-Dichloroethane	BRL	250		µg/L	64825	50	11/29/2005 5:13 PM
Toluene	9900	50		µg/L	64825	50	11/29/2005 5:13 PM
Ethylbenzene	2600	50		µg/L	64825	50	11/29/2005 5:13 PM
m,p-Xylene	10000	50		µg/L	64825	50	11/29/2005 5:13 PM
o-Xylene	3800	50		µg/L	64825	50	11/29/2005 5:13 PM
Naphthalene	1100	250		µg/L	64825	50	11/29/2005 5:13 PM
Surr: 4-Bromofluorobenzene	89.7	63.7-115		%REC	64825	50	11/29/2005 5:13 PM
Surr: Dibromofluoromethane	82.8	70.4-123		%REC	64825	50	11/29/2005 5:13 PM
Surr: Toluene-d8	90.4	73.4-115		%REC	64825	50	11/29/2005 5:13 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0511C76-016

Client Sample ID: TRIP BLANK 1
Collection Date: 11/22/2005
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64825	1	11/29/2005 3:32 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64825	1	11/29/2005 3:32 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64825	1	11/29/2005 3:32 PM
Isopropyl ether	BRL	5.0	N	µg/L	64825	1	11/29/2005 3:32 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64825	1	11/29/2005 3:32 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64825	1	11/29/2005 3:32 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64825	1	11/29/2005 3:32 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64825	1	11/29/2005 3:32 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64825	1	11/29/2005 3:32 PM
Benzene	BRL	1.0		µg/L	64825	1	11/29/2005 3:32 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64825	1	11/29/2005 3:32 PM
Toluene	BRL	1.0		µg/L	64825	1	11/29/2005 3:32 PM
Ethylbenzene	BRL	1.0		µg/L	64825	1	11/29/2005 3:32 PM
m,p-Xylene	BRL	1.0		µg/L	64825	1	11/29/2005 3:32 PM
o-Xylene	BRL	1.0		µg/L	64825	1	11/29/2005 3:32 PM
Naphthalene	BRL	5.0		µg/L	64825	1	11/29/2005 3:32 PM
Surr: 4-Bromofluorobenzene	83.1	63.7-115		%REC	64825	1	11/29/2005 3:32 PM
Surr: Dibromofluoromethane	83.5	70.4-123		%REC	64825	1	11/29/2005 3:32 PM
Surr: Toluene-d8	88.8	73.4-115		%REC	64825	1	11/29/2005 3:32 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0511C76-017

Client Sample ID: TRIP BLANK 2
Collection Date: 11/22/2005
Matrix: AQUEOUS

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64825	1	11/29/2005 3:58 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64825	1	11/29/2005 3:58 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64825	1	11/29/2005 3:58 PM
Isopropyl ether	BRL	5.0	N	µg/L	64825	1	11/29/2005 3:58 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64825	1	11/29/2005 3:58 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64825	1	11/29/2005 3:58 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64825	1	11/29/2005 3:58 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64825	1	11/29/2005 3:58 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64825	1	11/29/2005 3:58 PM
Benzene	BRL	1.0		µg/L	64825	1	11/29/2005 3:58 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64825	1	11/29/2005 3:58 PM
Toluene	BRL	1.0		µg/L	64825	1	11/29/2005 3:58 PM
Ethylbenzene	BRL	1.0		µg/L	64825	1	11/29/2005 3:58 PM
m,p-Xylene	BRL	1.0		µg/L	64825	1	11/29/2005 3:58 PM
o-Xylene	BRL	1.0		µg/L	64825	1	11/29/2005 3:58 PM
Naphthalene	BRL	5.0		µg/L	64825	1	11/29/2005 3:58 PM
Surr: 4-Bromofluorobenzene	83.6	63.7-115		%REC	64825	1	11/29/2005 3:58 PM
Surr: Dibromofluoromethane	82.4	70.4-123		%REC	64825	1	11/29/2005 3:58 PM
Surr: Toluene-d8	89.9	73.4-115		%REC	64825	1	11/29/2005 3:58 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

30-Nov-05

Lab Order: 0511C76
Client: Consultech Environmental, Inc.
Project: Souther's Grocery

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0511C76-001A	MW-6R	11/22/2005 2:00:00 PM	Groundwater	Oxygenates by GC/MS		11/28/2005	11/28/2005
				Volatile Organic Compounds by GC/MS		11/28/2005	11/28/2005
0511C76-001B				GC Analysis of Gaseous Samples		11/29/2005	11/29/2005
0511C76-001C				MICRO-EXTRACTABLE VOCs		11/29/2005	11/29/2005
0511C76-001D				ION SCAN			11/23/2005
				ION SCAN			11/23/2005
0511C76-001E				Total Metals by ICP/MS		11/23/2005	11/29/2005
0511C76-001F				Dissolved Metals by ICP/MS		11/23/2005	11/30/2005
0511C76-002A	MW-13R	11/22/2005 2:30:00 PM		Oxygenates by GC/MS		11/28/2005	11/28/2005
				Volatile Organic Compounds by GC/MS		11/28/2005	11/28/2005
0511C76-002B				GC Analysis of Gaseous Samples		11/29/2005	11/29/2005
0511C76-002C				MICRO-EXTRACTABLE VOCs		11/29/2005	11/29/2005
0511C76-002D				ION SCAN			11/23/2005
				ION SCAN			11/23/2005
0511C76-002E				Total Metals by ICP/MS		11/23/2005	11/29/2005
0511C76-002F				Dissolved Metals by ICP/MS		11/23/2005	11/30/2005
0511C76-003A	MW-18R	11/22/2005 3:00:00 PM		Oxygenates by GC/MS		11/29/2005	11/29/2005
				Volatile Organic Compounds by GC/MS		11/29/2005	11/29/2005
0511C76-003B				GC Analysis of Gaseous Samples		11/29/2005	11/29/2005
0511C76-003C				MICRO-EXTRACTABLE VOCs		11/29/2005	11/29/2005
0511C76-003D				ION SCAN			11/23/2005
				ION SCAN			11/23/2005
0511C76-003E				Total Metals by ICP/MS		11/23/2005	11/29/2005
0511C76-003F				Dissolved Metals by ICP/MS		11/23/2005	11/30/2005
0511C76-004A	MW-27	11/22/2005 3:30:00 PM		Oxygenates by GC/MS		11/28/2005	11/28/2005
				Volatile Organic Compounds by GC/MS		11/28/2005	11/28/2005
0511C76-004B				GC Analysis of Gaseous Samples		11/29/2005	11/29/2005
0511C76-004C				MICRO-EXTRACTABLE VOCs		11/29/2005	11/29/2005

Lab Order: 0511C76
Client: Consultech Environmental, Inc.
Project: Souther's Grocery

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0511C76-004D	MW-27	11/22/2005 3:30:00 PM	Groundwater	ION SCAN			11/23/2005
				ION SCAN			11/23/2005
				ION SCAN			11/23/2005
0511C76-004E				Total Metals by ICP/MS		11/23/2005	11/29/2005
0511C76-004F				Dissolved Metals by ICP/MS		11/23/2005	11/30/2005
0511C76-005A	MW-30	11/22/2005 9:30:00 AM		Oxygenates by GC/MS		11/28/2005	11/28/2005
				Volatile Organic Compounds by GC/MS		11/28/2005	11/28/2005
0511C76-005B				GC Analysis of Gaseous Samples		11/29/2005	11/29/2005
0511C76-005C				MICRO-EXTRACTABLE VOCs		11/29/2005	11/29/2005
0511C76-005D				ION SCAN			11/23/2005
				ION SCAN			11/23/2005
0511C76-005E				Total Metals by ICP/MS		11/23/2005	11/29/2005
0511C76-005F				Dissolved Metals by ICP/MS		11/23/2005	11/30/2005
0511C76-006A	MW-31	11/22/2005 9:00:00 AM		Oxygenates by GC/MS		11/28/2005	11/28/2005
				Volatile Organic Compounds by GC/MS		11/28/2005	11/28/2005
0511C76-006B				GC Analysis of Gaseous Samples		11/29/2005	11/29/2005
0511C76-006C				MICRO-EXTRACTABLE VOCs		11/29/2005	11/29/2005
0511C76-006D				ION SCAN			11/23/2005
				ION SCAN			11/23/2005
0511C76-006E				Total Metals by ICP/MS		11/23/2005	11/29/2005
0511C76-006F				Dissolved Metals by ICP/MS		11/23/2005	11/30/2005
				Dissolved Metals by ICP/MS		11/23/2005	11/30/2005
0511C76-007A	MW-35	11/22/2005 12:00:00 PM		Oxygenates by GC/MS		11/28/2005	11/28/2005
				Volatile Organic Compounds by GC/MS		11/28/2005	11/28/2005
0511C76-007B				GC Analysis of Gaseous Samples		11/29/2005	11/29/2005
0511C76-007C				MICRO-EXTRACTABLE VOCs		11/29/2005	11/29/2005
0511C76-007D				ION SCAN			11/23/2005
				ION SCAN			11/23/2005

Lab Order: 0511C76
Client: Consultech Environmental, Inc.
Project: Souther's Grocery

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0511C76-007E	MW-35	11/22/2005 12:00:00 PM	Groundwater	Total Metals by ICP/MS		11/23/2005	11/29/2005
0511C76-007F				Dissolved Metals by ICP/MS		11/23/2005	11/30/2005
0511C76-008A	MW-36	11/22/2005 10:00:00 AM		Oxygenates by GC/MS		11/28/2005	11/28/2005
				Volatile Organic Compounds by GC/MS		11/28/2005	11/28/2005
0511C76-008B				GC Analysis of Gaseous Samples		11/29/2005	11/29/2005
0511C76-008C				MICRO-EXTRACTABLE VOCs		11/29/2005	11/29/2005
0511C76-008D				ION SCAN			11/23/2005
				ION SCAN			11/23/2005
0511C76-008E				Total Metals by ICP/MS		11/23/2005	11/29/2005
0511C76-008F				Dissolved Metals by ICP/MS		11/23/2005	11/30/2005
0511C76-009A	MW-37	11/22/2005 11:30:00 AM		Oxygenates by GC/MS		11/28/2005	11/28/2005
				Volatile Organic Compounds by GC/MS		11/28/2005	11/28/2005
0511C76-009B				GC Analysis of Gaseous Samples		11/29/2005	11/29/2005
0511C76-009C				MICRO-EXTRACTABLE VOCs		11/29/2005	11/29/2005
0511C76-009D				ION SCAN			11/23/2005
				ION SCAN			11/23/2005
0511C76-009E				Total Metals by ICP/MS		11/23/2005	11/29/2005
0511C76-009F				Dissolved Metals by ICP/MS		11/23/2005	11/30/2005
0511C76-010A	MW-38	11/22/2005 10:30:00 AM		Oxygenates by GC/MS		11/28/2005	11/28/2005
				Volatile Organic Compounds by GC/MS		11/28/2005	11/28/2005
0511C76-010B				GC Analysis of Gaseous Samples		11/29/2005	11/30/2005
0511C76-010C				MICRO-EXTRACTABLE VOCs		11/29/2005	11/29/2005
0511C76-010D				ION SCAN			11/23/2005
				ION SCAN			11/23/2005
0511C76-010E				Total Metals by ICP/MS		11/23/2005	11/29/2005
0511C76-010F				Dissolved Metals by ICP/MS		11/23/2005	11/30/2005
				Dissolved Metals by ICP/MS		11/23/2005	11/30/2005
0511C76-011A	MW-39	11/22/2005 11:00:00 AM		Oxygenates by GC/MS		11/28/2005	11/28/2005

Lab Order: 0511C76
Client: Consultech Environmental, Inc.
Project: Souther's Grocery

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0511C76-011A	MW-39	11/22/2005 11:00:00 AM	Groundwater	Volatile Organic Compounds by GC/MS		11/28/2005	11/28/2005
0511C76-011B				GC Analysis of Gaseous Samples		11/29/2005	11/30/2005
				GC Analysis of Gaseous Samples		11/29/2005	11/30/2005
0511C76-011C				MICRO-EXTRACTABLE VOCs		11/29/2005	11/29/2005
0511C76-011D				ION SCAN			11/23/2005
				ION SCAN			11/23/2005
0511C76-011E				Total Metals by ICP/MS		11/23/2005	11/29/2005
0511C76-011F				Dissolved Metals by ICP/MS		11/23/2005	11/30/2005
0511C76-012A	MW-41	11/22/2005 12:30:00 PM		Oxygenates by GC/MS		11/28/2005	11/28/2005
				Volatile Organic Compounds by GC/MS		11/28/2005	11/28/2005
0511C76-012B				GC Analysis of Gaseous Samples		11/29/2005	11/30/2005
0511C76-012C				MICRO-EXTRACTABLE VOCs		11/29/2005	11/29/2005
0511C76-012D				ION SCAN			11/23/2005
				ION SCAN			11/23/2005
0511C76-012E				Total Metals by ICP/MS		11/23/2005	11/29/2005
0511C76-012F				Dissolved Metals by ICP/MS		11/23/2005	11/30/2005
0511C76-013A	MW-42	11/22/2005 1:00:00 PM		Oxygenates by GC/MS		11/29/2005	11/29/2005
				Volatile Organic Compounds by GC/MS		11/29/2005	11/29/2005
0511C76-013B				GC Analysis of Gaseous Samples		11/29/2005	11/30/2005
0511C76-013C				MICRO-EXTRACTABLE VOCs		11/29/2005	11/29/2005
0511C76-013D				ION SCAN			11/23/2005
				ION SCAN			11/23/2005
0511C76-013E				Total Metals by ICP/MS		11/23/2005	11/29/2005
0511C76-013F				Dissolved Metals by ICP/MS		11/23/2005	11/30/2005
0511C76-014A	MW-43	11/22/2005 1:30:00 PM		Oxygenates by GC/MS		11/29/2005	11/30/2005
				Volatile Organic Compounds by GC/MS		11/29/2005	11/30/2005
0511C76-014B				GC Analysis of Gaseous Samples		11/29/2005	11/30/2005
0511C76-014C				MICRO-EXTRACTABLE VOCs		11/29/2005	11/29/2005

Lab Order: 0511C76
Client: Consultech Environmental, Inc.
Project: Souther's Grocery

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0511C76-014D	MW-43	11/22/2005 1:30:00 PM	Groundwater	ION SCAN			11/23/2005
				ION SCAN			11/23/2005
0511C76-014E				Total Metals by ICP/MS		11/23/2005	11/29/2005
0511C76-014F				Dissolved Metals by ICP/MS		11/23/2005	11/30/2005
0511C76-015A	MW-28	11/22/2005 4:00:00 PM		Oxygenates by GC/MS		11/29/2005	11/29/2005
				Volatile Organic Compounds by GC/MS		11/29/2005	11/29/2005
0511C76-015B				GC Analysis of Gaseous Samples		11/29/2005	11/30/2005
				GC Analysis of Gaseous Samples		11/29/2005	11/30/2005
0511C76-015C				MICRO-EXTRACTABLE VOCs		11/29/2005	11/30/2005
0511C76-015D				ION SCAN			11/23/2005
				ION SCAN			11/23/2005
0511C76-015E				Total Metals by ICP/MS		11/23/2005	11/29/2005
0511C76-015F				Dissolved Metals by ICP/MS		11/23/2005	11/30/2005
0511C76-016A	TRIP BLANK 1	11/22/2005	Aqueous	Oxygenates by GC/MS		11/29/2005	11/29/2005
				Volatile Organic Compounds by GC/MS		11/29/2005	11/29/2005
0511C76-017A	TRIP BLANK 2			Oxygenates by GC/MS		11/29/2005	11/29/2005
				Volatile Organic Compounds by GC/MS		11/29/2005	11/29/2005

CLIENT: Consultech Environmental, Inc.
Work Order: 0511C76
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W

Sample ID **MB-64713** SampType: **MBLK** TestCode: **6020_W** Units: **µg/L** Prep Date: **11/23/2005** RunNo: **75450**
Client ID: Batch ID: **64713** TestNo: **SW6020** Analysis Date: **11/29/2005** SeqNo: **1491756**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	BRL	1.00									

Sample ID **LCS-64713** SampType: **LCS** TestCode: **6020_W** Units: **µg/L** Prep Date: **11/23/2005** RunNo: **75450**
Client ID: Batch ID: **64713** TestNo: **SW6020** Analysis Date: **11/29/2005** SeqNo: **1491755**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	98.47	1.00	100	0	98.5	85	115	0	0		

Sample ID **0511C76-015EMS** SampType: **MS** TestCode: **6020_W** Units: **µg/L** Prep Date: **11/23/2005** RunNo: **75450**
Client ID: **MW-28** Batch ID: **64713** TestNo: **SW6020** Analysis Date: **11/29/2005** SeqNo: **1491758**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	104.2	1.00	100	5.958	98.2	70	130	0	0		

Sample ID **0511C76-015EMSD** SampType: **MSD** TestCode: **6020_W** Units: **µg/L** Prep Date: **11/23/2005** RunNo: **75450**
Client ID: **MW-28** Batch ID: **64713** TestNo: **SW6020** Analysis Date: **11/29/2005** SeqNo: **1491759**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	106.2	1.00	100	5.958	100	70	130	104.2	1.90	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0511C76
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W_D

Sample ID	MB-64712	SampType:	MBLK	TestCode:	6020_W_D	Units:	µg/L	Prep Date:	11/23/2005	RunNo:	75492
Client ID:		Batch ID:	64712	TestNo:	SW6020			Analysis Date:	11/30/2005	SeqNo:	1492818

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	BRL	100									

Sample ID	LCS-64712	SampType:	LCS	TestCode:	6020_W_D	Units:	µg/L	Prep Date:	11/23/2005	RunNo:	75492
Client ID:		Batch ID:	64712	TestNo:	SW6020			Analysis Date:	11/30/2005	SeqNo:	1492817

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	1119	100	1000	18.98	110	85	115	0	0		

Sample ID	0511C76-002FMS	SampType:	MS	TestCode:	6020_W_D	Units:	µg/L	Prep Date:	11/23/2005	RunNo:	75492
Client ID:	MW-13R	Batch ID:	64712	TestNo:	SW6020			Analysis Date:	11/30/2005	SeqNo:	1492811

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	1617	100	1000	605.3	101	70	130	0	0		

Sample ID	0511C76-002FMSD	SampType:	MSD	TestCode:	6020_W_D	Units:	µg/L	Prep Date:	11/23/2005	RunNo:	75492
Client ID:	MW-13R	Batch ID:	64712	TestNo:	SW6020			Analysis Date:	11/30/2005	SeqNo:	1492812

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	1632	100	1000	605.3	103	70	130	1617	0.923	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0511C76
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8011_W

Sample ID **MB-64784** SampType: **MBLK** TestCode: **8011_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75452**
Client ID: Batch ID: **64784** TestNo: **SW8011** Analysis Date: **11/29/2005** SeqNo: **1491821**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	BRL	0.0200									
Surr: 4-Bromofluorobenzene	4.636	0.0500	5	0	92.7	39.4	142	0	0		

Sample ID **MB-64785** SampType: **MBLK** TestCode: **8011_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75465**
Client ID: Batch ID: **64785** TestNo: **SW8011** Analysis Date: **11/30/2005** SeqNo: **1492340**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	BRL	0.0200									
Surr: 4-Bromofluorobenzene	4.501	0.0500	5	0	90	39.4	142	0	0		

Sample ID **LCS-64784** SampType: **LCS** TestCode: **8011_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75452**
Client ID: Batch ID: **64784** TestNo: **SW8011** Analysis Date: **11/29/2005** SeqNo: **1491822**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.091	0.0200	0.1	0	91	55.1	139	0	0		
Surr: 4-Bromofluorobenzene	4.203	0.0500	5	0	84.1	39.4	142	0	0		

Sample ID **LCS-64785** SampType: **LCS** TestCode: **8011_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75465**
Client ID: Batch ID: **64785** TestNo: **SW8011** Analysis Date: **11/30/2005** SeqNo: **1492499**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.132	0.0200	0.1	0	132	55.1	139	0	0		
Surr: 4-Bromofluorobenzene	3.742	0.0500	5	0	74.8	39.4	142	0	0		

Sample ID **LCSD-64784** SampType: **LCSD** TestCode: **8011_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75452**
Client ID: Batch ID: **64784** TestNo: **SW8011** Analysis Date: **11/29/2005** SeqNo: **1491823**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.091	0.0200	0.1	0	91	55.1	139	0.091	0	18.5	
Surr: 4-Bromofluorobenzene	3.58	0.0500	5	0	71.6	39.4	142	4.203	0	0	

Qualifiers:
- B Analyte detected in the associated Method Blank
- BRL Below Reporting Limit
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- N Analyte not NELAC certified
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

CLIENT: Consultech Environmental, Inc.
Work Order: 0511C76
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8011_W

Sample ID **LCSD-64785** SampType: **LCSD** TestCode: **8011_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75465**
Client ID: Batch ID: **64785** TestNo: **SW8011** Analysis Date: **11/30/2005** SeqNo: **1492342**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.137	0.0200	0.1	0	137	55.1	139	0.15	0	18.5	
Surr: 4-Bromofluorobenzene	4.156	0.0500	5	0	83.1	39.4	142	4.59	0	0	

Sample ID **0511C52-001BMS** SampType: **MS** TestCode: **8011_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75452**
Client ID: Batch ID: **64784** TestNo: **SW8011** Analysis Date: **11/29/2005** SeqNo: **1491825**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.08087	0.0195	0.09744	0	83	40.7	148	0	0		
Surr: 4-Bromofluorobenzene	5.205	0.0487	4.872	0	107	39.4	142	0	0		

Sample ID **0511D90-001BMS** SampType: **MS** TestCode: **8011_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75465**
Client ID: Batch ID: **64785** TestNo: **SW8011** Analysis Date: **11/30/2005** SeqNo: **1492344**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.07105	0.0197	0.09867	0	72	40.7	148	0	0		
Surr: 4-Bromofluorobenzene	3.905	0.0493	4.934	0	79.1	39.4	142	0	0		

Qualifiers:
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0511C76
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_OXY_W

Sample ID **MB-64780** SampType: **MBLK** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/28/2005** RunNo: **75384**
Client ID: Batch ID: **64780** TestNo: **SW8260B** Analysis Date: **11/28/2005** SeqNo: **1490825**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	BRL	25									
Ethyl tert-butyl alcohol	BRL	5.0									
Ethyl tert-butyl ether	BRL	5.0									
Isopropyl ether	BRL	5.0									
tert-Amyl alcohol	BRL	5.0									
tert-Amyl methyl ether	BRL	5.0									
tert-Butyl Alcohol	BRL	5.0									
tert-Butyl formate	BRL	5.0									

Sample ID **MB-64825** SampType: **MBLK** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75432**
Client ID: Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/29/2005** SeqNo: **1492594**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	BRL	25									
Ethyl tert-butyl alcohol	BRL	5.0									
Ethyl tert-butyl ether	BRL	5.0									
Isopropyl ether	BRL	5.0									
tert-Amyl alcohol	BRL	5.0									
tert-Amyl methyl ether	BRL	5.0									
tert-Butyl Alcohol	BRL	5.0									
tert-Butyl formate	BRL	5.0									

Sample ID **MB-64825** SampType: **MBLK** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75499**
Client ID: Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/30/2005** SeqNo: **1492807**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	BRL	25									
Ethyl tert-butyl alcohol	BRL	5.0									
Ethyl tert-butyl ether	BRL	5.0									
Isopropyl ether	BRL	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0511C76
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_OXY_W

Sample ID **MB-64825** SampType: **MBLK** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75499**
Client ID: Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/30/2005** SeqNo: **1492807**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
tert-Amyl alcohol	BRL	5.0									
tert-Amyl methyl ether	BRL	5.0									
tert-Butyl Alcohol	BRL	5.0									
tert-Butyl formate	BRL	5.0									

Sample ID **LCS-64780** SampType: **LCS** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/28/2005** RunNo: **75384**
Client ID: Batch ID: **64780** TestNo: **SW8260B** Analysis Date: **11/28/2005** SeqNo: **1490826**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	192	25	250	0	76.8	50	150	0	0		
Ethyl tert-butyl alcohol	170.2	5.0	250	0	68.1	50	150	0	0		
Ethyl tert-butyl ether	48.24	5.0	50	0	96.5	50	150	0	0		
Isopropyl ether	46.79	5.0	50	0	93.6	50	150	0	0		
tert-Amyl alcohol	216.7	5.0	250	0	86.7	50	150	0	0		
tert-Amyl methyl ether	46.92	5.0	50	0	93.8	50	150	0	0		
tert-Butyl Alcohol	181.7	5.0	250	0	72.7	50	150	0	0		
tert-Butyl formate	250.4	5.0	250	0	100	50	150	0	0		

Sample ID **LCS-64825** SampType: **LCS** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75432**
Client ID: Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/29/2005** SeqNo: **1492510**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	180.2	25	250	0	72.1	50	150	0	0		
Ethyl tert-butyl alcohol	223.7	5.0	250	0	89.5	50	150	0	0		
Ethyl tert-butyl ether	44.78	5.0	50	0	89.6	50	150	0	0		
Isopropyl ether	41.31	5.0	50	0	82.6	50	150	0	0		
tert-Amyl alcohol	280	5.0	250	0	112	50	150	0	0		
tert-Amyl methyl ether	44.11	5.0	50	0	88.2	50	150	0	0		
tert-Butyl Alcohol	183.8	5.0	250	0	73.5	50	150	0	0		
tert-Butyl formate	191.8	5.0	250	0	76.7	50	150	0	0		

Qualifiers:
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- BRL Below Reporting Limit
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0511C76
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_OXY_W

Sample ID **0511C76-009AMS** SampType: **MS** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/28/2005** RunNo: **75384**
Client ID: **MW-37** Batch ID: **64780** TestNo: **SW8260B** Analysis Date: **11/28/2005** SeqNo: **1491440**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	443.3	25	250	0	177	50	150	0	0		S
Ethyl tert-butyl alcohol	223.9	5.0	250	0	89.6	50	150	0	0		
Ethyl tert-butyl ether	54.97	5.0	50	0	110	50	150	0	0		
Isopropyl ether	54.3	5.0	50	0	109	50	150	0	0		
tert-Amyl alcohol	295.2	5.0	250	0	118	50	150	0	0		
tert-Amyl methyl ether	52.7	5.0	50	0	105	50	150	0	0		
tert-Butyl Alcohol	465.4	5.0	250	0	186	50	150	0	0		S
tert-Butyl formate	6.21	5.0	250	0	2.48	50	150	0	0		S

Sample ID **0511C76-013AMS** SampType: **MS** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75499**
Client ID: **MW-42** Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/30/2005** SeqNo: **1492838**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	341.7	25	250	0	137	50	150	0	0		
Ethyl tert-butyl alcohol	222.7	5.0	250	0	89.1	50	150	0	0		
Ethyl tert-butyl ether	49.15	5.0	50	0	98.3	50	150	0	0		
Isopropyl ether	48.35	5.0	50	0	96.7	50	150	0	0		
tert-Amyl alcohol	298.7	5.0	250	0	119	50	150	0	0		
tert-Amyl methyl ether	46.7	5.0	50	0	93.4	50	150	0	0		
tert-Butyl Alcohol	288.4	5.0	250	0	115	50	150	0	0		
tert-Butyl formate	244.1	5.0	250	0	97.6	50	150	0	0		

Sample ID **0511C76-009AMSD** SampType: **MSD** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/28/2005** RunNo: **75384**
Client ID: **MW-37** Batch ID: **64780** TestNo: **SW8260B** Analysis Date: **11/28/2005** SeqNo: **1491441**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	480.7	25	250	0	192	50	150	443.3	8.10	40	S
Ethyl tert-butyl alcohol	221.8	5.0	250	0	88.7	50	150	223.9	0.951	40	
Ethyl tert-butyl ether	55.21	5.0	50	0	110	50	150	54.97	0.436	40	
Isopropyl ether	53.73	5.0	50	0	107	50	150	54.3	1.06	40	

Qualifiers:
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0511C76
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_OXY_W

Sample ID **0511C76-009AMSD** SampType: **MSD** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/28/2005** RunNo: **75384**
Client ID: **MW-37** Batch ID: **64780** TestNo: **SW8260B** Analysis Date: **11/28/2005** SeqNo: **1491441**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
tert-Amyl alcohol	279.5	5.0	250	0	112	50	150	295.2	5.45	40	
tert-Amyl methyl ether	49.28	5.0	50	0	98.6	50	150	52.7	6.71	40	
tert-Butyl Alcohol	464.1	5.0	250	0	186	50	150	465.4	0.273	40	S
tert-Butyl formate	5.24	5.0	250	0	2.1	50	150	6.21	16.9	40	S

Sample ID **0511C76-013AMSD** SampType: **MSD** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75499**
Client ID: **MW-42** Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/30/2005** SeqNo: **1492808**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	318.4	25	250	0	127	50	150	341.7	7.06	40	
Ethyl tert-butyl alcohol	229.1	5.0	250	0	91.7	50	150	222.7	2.83	40	
Ethyl tert-butyl ether	49.58	5.0	50	0	99.2	50	150	49.15	0.871	40	
Isopropyl ether	47.88	5.0	50	0	95.8	50	150	48.35	0.977	40	
tert-Amyl alcohol	288.5	5.0	250	0	115	50	150	298.7	3.48	40	
tert-Amyl methyl ether	45.87	5.0	50	0	91.7	50	150	46.7	1.79	40	
tert-Butyl Alcohol	275.9	5.0	250	0	110	50	150	288.4	4.43	40	
tert-Butyl formate	256.6	5.0	250	0	103	50	150	244.1	5.01	40	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0511C76
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID **MB-64780** SampType: **MBLK** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/28/2005** RunNo: **75384**
Client ID: Batch ID: **64780** TestNo: **SW8260B** Analysis Date: **11/28/2005** SeqNo: **1490799**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	BRL	5.0									
Benzene	BRL	5.0									
Ethylbenzene	BRL	5.0									
m,p-Xylene	BRL	10									
Methyl tert-butyl ether	BRL	5.0									
Naphthalene	BRL	5.0									
o-Xylene	BRL	5.0									
Toluene	BRL	5.0									
Surr: 4-Bromofluorobenzene	38.86	5.0	50	0	77.7	63.7	115	0	0		
Surr: Dibromofluoromethane	44.01	5.0	50	0	88	70.4	123	0	0		
Surr: Toluene-d8	47.3	5.0	50	0	94.6	73.4	115	0	0		

Sample ID **MB-64825** SampType: **MBLK** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75432**
Client ID: Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/29/2005** SeqNo: **1491547**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	BRL	5.0									
Benzene	BRL	5.0									
Ethylbenzene	BRL	5.0									
m,p-Xylene	BRL	10									
Methyl tert-butyl ether	BRL	5.0									
Naphthalene	BRL	5.0									
o-Xylene	BRL	5.0									
Toluene	BRL	5.0									
Surr: 4-Bromofluorobenzene	39.59	5.0	50	0	79.2	63.7	115	0	0		
Surr: Dibromofluoromethane	42.77	5.0	50	0	85.5	70.4	123	0	0		
Surr: Toluene-d8	45.58	5.0	50	0	91.2	73.4	115	0	0		

Qualifiers:
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0511C76
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID **MB-64825** SampType: **MBLK** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75499**
Client ID: Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/30/2005** SeqNo: **1492756**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	BRL	5.0									
Benzene	BRL	5.0									
Ethylbenzene	BRL	5.0									
m,p-Xylene	BRL	10									
Methyl tert-butyl ether	BRL	5.0									
Naphthalene	BRL	5.0									
o-Xylene	BRL	5.0									
Toluene	BRL	5.0									
Surr: 4-Bromofluorobenzene	40.75	5.0	50	0	81.5	63.7	115	0	0		
Surr: Dibromofluoromethane	43.04	5.0	50	0	86.1	70.4	123	0	0		
Surr: Toluene-d8	44.66	5.0	50	0	89.3	73.4	115	0	0		

Sample ID **LCS-64780** SampType: **LCS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/28/2005** RunNo: **75384**
Client ID: Batch ID: **64780** TestNo: **SW8260B** Analysis Date: **11/28/2005** SeqNo: **1490800**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	46.36	5.0	50	0	92.7	77.4	127	0	0		
Toluene	49.66	5.0	50	0	99.3	79.6	127	0	0		
Surr: 4-Bromofluorobenzene	38.78	5.0	50	0	77.6	63.7	115	0	0		
Surr: Dibromofluoromethane	42.45	5.0	50	0	84.9	70.4	123	0	0		
Surr: Toluene-d8	47.97	5.0	50	0	95.9	73.4	115	0	0		

Sample ID **LCS-64825** SampType: **LCS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75432**
Client ID: Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/29/2005** SeqNo: **1492357**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	48.26	5.0	50	0	96.5	77.4	127	0	0		
Toluene	49.14	5.0	50	0	98.3	79.6	127	0	0		
Surr: 4-Bromofluorobenzene	42.23	5.0	50	0	84.5	63.7	115	0	0		
Surr: Dibromofluoromethane	39.21	5.0	50	0	78.4	70.4	123	0	0		

Qualifiers:
B Analyte detected in the associated Method Blank
BRL Below Reporting Limit
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
N Analyte not NELAC certified
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Consultech Environmental, Inc.
Work Order: 0511C76
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID **LCS-64825** SampType: **LCS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75432**
Client ID: Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/29/2005** SeqNo: **1492357**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	46.07	5.0	50	0	92.1	73.4	115	0	0		

Sample ID **0511C76-009AMS** SampType: **MS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/28/2005** RunNo: **75384**
Client ID: **MW-37** Batch ID: **64780** TestNo: **SW8260B** Analysis Date: **11/28/2005** SeqNo: **1491321**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	46.33	5.0	50	0	92.7	72.6	130	0	0		
Toluene	55.07	5.0	50	4.81	101	74.7	129	0	0		
Surr: 4-Bromofluorobenzene	41.18	5.0	50	0	82.4	63.7	115	0	0		
Surr: Dibromofluoromethane	40.64	5.0	50	0	81.3	70.4	123	0	0		
Surr: Toluene-d8	48.2	5.0	50	0	96.4	73.4	115	0	0		

Sample ID **0511C76-013AMS** SampType: **MS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75499**
Client ID: **MW-42** Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/30/2005** SeqNo: **1492776**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	49.51	5.0	50	0	99	72.6	130	0	0		
Toluene	52.17	5.0	50	0	104	74.7	129	0	0		
Surr: 4-Bromofluorobenzene	39.87	5.0	50	0	79.7	63.7	115	0	0		
Surr: Dibromofluoromethane	40.86	5.0	50	0	81.7	70.4	123	0	0		
Surr: Toluene-d8	48.27	5.0	50	0	96.5	73.4	115	0	0		

Sample ID **0511C76-009AMSD** SampType: **MSD** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/28/2005** RunNo: **75384**
Client ID: **MW-37** Batch ID: **64780** TestNo: **SW8260B** Analysis Date: **11/28/2005** SeqNo: **1491323**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	45.06	5.0	50	0	90.1	72.6	130	0	0	10	
Toluene	52.9	5.0	50	4.81	96.2	74.7	129	0	0	10	
Surr: 4-Bromofluorobenzene	39.66	5.0	50	0	79.3	63.7	115	0	0	0	
Surr: Dibromofluoromethane	39.53	5.0	50	0	79.1	70.4	123	0	0	0	

Qualifiers:
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- BRL Below Reporting Limit
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0511C76
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID **0511C76-009AMSD** SampType: **MSD** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/28/2005** RunNo: **75384**
Client ID: **MW-37** Batch ID: **64780** TestNo: **SW8260B** Analysis Date: **11/28/2005** SeqNo: **1491323**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	48.19	5.0	50	0	96.4	73.4	115	0	0	0	

Sample ID **0511C76-013AMSD** SampType: **MSD** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75499**
Client ID: **MW-42** Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/30/2005** SeqNo: **1492777**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	49.27	5.0	50	0	98.5	72.6	130	49.51	0.486	10	
Toluene	50.6	5.0	50	0	101	74.7	129	52.17	3.06	10	
Surr: 4-Bromofluorobenzene	39.57	5.0	50	0	79.1	63.7	115	39.87	0	0	
Surr: Dibromofluoromethane	41.43	5.0	50	0	82.9	70.4	123	40.86	0	0	
Surr: Toluene-d8	47.04	5.0	50	0	94.1	73.4	115	48.27	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0511C76
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 9056_NO2NO3_W

Sample ID **MB-75313** SampType: **MBLK** TestCode: **9056_NO2NO** Units: **mg/L** Prep Date: RunNo: **75313**
Client ID: Batch ID: **R75313** TestNo: **SW9056** Analysis Date: **11/23/2005** SeqNo: **1489458**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate	BRL	0.25									

Sample ID **LCS-75313** SampType: **LCS** TestCode: **9056_NO2NO** Units: **mg/L** Prep Date: RunNo: **75313**
Client ID: Batch ID: **R75313** TestNo: **SW9056** Analysis Date: **11/23/2005** SeqNo: **1489456**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate	4.94	0.25	5	0	98.8	90	110	0	0		

Sample ID **0511A66-001EMS** SampType: **MS** TestCode: **9056_NO2NO** Units: **mg/L** Prep Date: RunNo: **75313**
Client ID: Batch ID: **R75313** TestNo: **SW9056** Analysis Date: **11/23/2005** SeqNo: **1489462**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate	8.656	0.25	5	3.629	101	90	110	0	0		

Sample ID **0511C76-014DMS** SampType: **MS** TestCode: **9056_NO2NO** Units: **mg/L** Prep Date: RunNo: **75313**
Client ID: **MW-43** Batch ID: **R75313** TestNo: **SW9056** Analysis Date: **11/23/2005** SeqNo: **1489479**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate	5.85	0.25	5	0.7076	103	90	110	0	0		

Sample ID **0511A66-001EMSD** SampType: **MSD** TestCode: **9056_NO2NO** Units: **mg/L** Prep Date: RunNo: **75313**
Client ID: Batch ID: **R75313** TestNo: **SW9056** Analysis Date: **11/23/2005** SeqNo: **1489464**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate	8.678	0.25	5	3.629	101	90	110	8.656	0.259	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0511C76
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 9056_W

Sample ID **MB-75312** SampType: **MBLK** TestCode: **9056_W** Units: **mg/L** Prep Date: RunNo: **75312**
Client ID: Batch ID: **R75312** TestNo: **SW9056** Analysis Date: **11/23/2005** SeqNo: **1489406**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	BRL	1.0									

Sample ID **LCS-75312** SampType: **LCS** TestCode: **9056_W** Units: **mg/L** Prep Date: RunNo: **75312**
Client ID: Batch ID: **R75312** TestNo: **SW9056** Analysis Date: **11/23/2005** SeqNo: **1489404**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	23.98	1.0	25	0	95.9	90	110	0	0		

Sample ID **0511A66-001EMS** SampType: **MS** TestCode: **9056_W** Units: **mg/L** Prep Date: RunNo: **75312**
Client ID: Batch ID: **R75312** TestNo: **SW9056** Analysis Date: **11/23/2005** SeqNo: **1489410**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	26.38	1.0	25	1.298	100	90	110	0	0		

Sample ID **0511C76-014DMS** SampType: **MS** TestCode: **9056_W** Units: **mg/L** Prep Date: RunNo: **75312**
Client ID: **MW-43** Batch ID: **R75312** TestNo: **SW9056** Analysis Date: **11/23/2005** SeqNo: **1489427**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	24.04	1.0	25	0.3338	94.8	90	110	0	0		

Sample ID **0511A66-001EMSD** SampType: **MSD** TestCode: **9056_W** Units: **mg/L** Prep Date: RunNo: **75312**
Client ID: Batch ID: **R75312** TestNo: **SW9056** Analysis Date: **11/23/2005** SeqNo: **1489412**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	26.33	1.0	25	1.298	100	90	110	26.38	0.182	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0511C76
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: RSKSOP-175

Sample ID	SampType	TestCode	Units	Prep Date	RunNo
MB-64840	MBLK	RSKSOP-175	µg/L	11/29/2005	75444
Client ID:	Batch ID: 64840	TestNo: SOP-RSK 17		Analysis Date: 11/29/2005	SeqNo: 1491697

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	BRL	4.0									

Sample ID	SampType	TestCode	Units	Prep Date	RunNo
LCS-64840	LCS	RSKSOP-175	µg/L	11/29/2005	75444
Client ID:	Batch ID: 64840	TestNo: SOP-RSK 17		Analysis Date: 11/29/2005	SeqNo: 1491698

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	141.7	4.0	200	0	70.9	43.7	115	0	0		

Sample ID	SampType	TestCode	Units	Prep Date	RunNo
LCSD-64840	LCSD	RSKSOP-175	µg/L	11/29/2005	75444
Client ID:	Batch ID: 64840	TestNo: SOP-RSK 17		Analysis Date: 11/29/2005	SeqNo: 1491699

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	146	4.0	200	0	73	43.7	115	141.7	2.97	19.5	

Sample ID	SampType	TestCode	Units	Prep Date	RunNo
0511C76-014BMS	MS	RSKSOP-175	µg/L	11/29/2005	75484
Client ID: MW-43	Batch ID: 64840	TestNo: SOP-RSK 17		Analysis Date: 11/30/2005	SeqNo: 1492553

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	155.6	4.0	200	0	77.8	26.7	123	0	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

December 01, 2005

Jim Wilson
Consultech Environmental, Inc.
1800 MacLeod Rd Suite F
Suite F
Lawrenceville, GA 30043

TEL: (678) 377-0400
FAX (678) 377-0051

RE: Southers Grocery

Order No.: 0511D90

Dear Jim Wilson:

Analytical Environmental Services, Inc. received 7 samples on 11/28/2005 10:40:00 AM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. Sample results are not dry weight corrected, unless if Pmoist analysis are requested on the chain of custody or other project specific arrangements have been made.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 06/01/05-06/30/06.
-AIHA Certification number 505 for analysis of Industrial Hygiene samples (Organics, Inorganics), Paint Chips, Soil and Dust Wipes, effective until 02/01/07.

These results relate only to the items tested. This report may only be reproduced in full and contains 21 total pages (including cover letter).

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

Sincerely,

Mila Crain

Mila Crain
Customer Service Manager

3785 PRESIDENTIAL PARKWAY • ATLANTA, GEORGIA 30340 • TEL: (770) 457-8177 • FAX: (770) 457-8188

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 11D90

Date: _____ Page _____ of _____

COMPANY: Consultech Environmental
ADDRESS: 1800 Macleod Dr. Suite F.
PHONE: 618-317-0400
FAX: 618-317-0511
SAMPLED BY: Drew Miller
SIGNATURE: Drew Miller

ANALYSIS REQUESTED: BTEX MNA (+ DFA MTBE, 3 sec butanols); EDB 8011; Total Lead

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	HCl	--	N	REMARKS	No. # of Containers
1	MW-21	11/23	830	↓		GW	2	2	1		5
2	MW-22	11/23	900	↓		↓	↓	↓	↓		5
3	MW-20	11/23	1050	↓		↓	↓	↓	↓		5
4	MW-19	11/23	1100	↓		↓	↓	↓	↓		5
5	MW-11	11/23	1050	↓		↓	↓	↓	↓		5
6	MW-8	11/23	930	↓		↓	↓	↓	↓		5
7											
8											
9											
10											
11											
12											
13											
14											

RELINQUISHED BY	DATE TIME	RECEIVED BY	DATE TIME
1. Drew Miller	11/23 1040	1. [illegible]	11/23/05 1040
2.		2.	
3.		3.	

SPECIAL INSTRUCTIONS COMMENTS:

SHIPMENT METHOD
OUT: VIA:
IN: VIA:
(CLIENT) FedEx UPS MAIL COURIER
GREYHOUND OTHER ___

PROJECT INFORMATION
PROJECT NAME: Southern Grocery
PROJECT #: 05-02-015
SITE ADDRESS: Campobello S.C.
SEND REPORT TO: Jim Wilson
INVOICE TO (IF DIFFERENT FROM ABOVE):
QUOTE # ___ PO# ___

RECEIPT
Total # of Containers

Turnaround Time Request
(X) Standard 5 Business Days
( ) 2 Business Day Rush
( ) Next Business Day Rush
( ) Same Day Rush (auth req.)
( ) Other ___

STATE PROGRAM (if any): ___
E-mail? Y N Fax? Y N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT. SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A - Air GW - Groundwater SE - Sediment SO - Soil SW - Surface Water W - Water (Blanks) DW - Drinking Water (Blanks) O - Other (specify)
PRESERVATIVE CODES: H-I - Hydrochloric acid + ice I - Ice only N - Nitric acid S-I - Sulfuric acid + ice S M-I - Sodium Bisulfate Methanol + ice O - Other (specify) NA - None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc. **Date:** *09-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Southers Grocery
Lab Order: 0511D90

CASE NARRATIVE

Sample Receipt Non-Conformance:

A Trip Blank was provided but is not listed on the COC. Trip Blank will be analyzed at no cost to the client.

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 4th Edition. All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives unless indicated in the case narrative.

EDB Analysis by Method 8011:

Percent recovery for the surrogate spiking compound on sample 0511D90-006B was outside control limits biased low due to obvious matrix interference.

Volatile Organic Compounds Analysis by Method 8260B:

Due to sample matrix, samples 0511D90-005A and -006A required dilution during preparation and/or analysis resulting in elevated reporting limits.

Matrix spike and matrix spike duplicate recoveries for Ethanol and tert-Butyl Alcohol on sample 0511C76-009AMS/MSD were outside control limits biased high. LCS recovery was within control limits indicating possible matrix interference.

Matrix spike and matrix spike duplicate recoveries for tert-Butyl formate on sample 0511C76-009AMS/MSD were outside control limits biased low. LCS recovery was within control limits indicating possible matrix interference.

Analytical Environmental Services, Inc.

Date: *09-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Southers Grocery
Lab ID: 0511D90-001

Client Sample ID: MW-21
Collection Date: 11/23/2005 8:30:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	64785	1	11/30/2005 1:53 AM
Surr: 4-Bromofluorobenzene	80.6	39.4-142		%REC	64785	1	11/30/2005 1:53 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	BRL	1.00		µg/L	64794	1	11/30/2005 6:54 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64825	1	11/30/2005 4:40 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64825	1	11/30/2005 4:40 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64825	1	11/30/2005 4:40 PM
Isopropyl ether	BRL	5.0	N	µg/L	64825	1	11/30/2005 4:40 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64825	1	11/30/2005 4:40 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64825	1	11/30/2005 4:40 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64825	1	11/30/2005 4:40 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64825	1	11/30/2005 4:40 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64825	1	11/30/2005 4:40 PM
Benzene	BRL	1.0		µg/L	64825	1	11/30/2005 4:40 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64825	1	11/30/2005 4:40 PM
Toluene	BRL	1.0		µg/L	64825	1	11/30/2005 4:40 PM
Ethylbenzene	BRL	1.0		µg/L	64825	1	11/30/2005 4:40 PM
m,p-Xylene	BRL	1.0		µg/L	64825	1	11/30/2005 4:40 PM
o-Xylene	BRL	1.0		µg/L	64825	1	11/30/2005 4:40 PM
Naphthalene	BRL	5.0		µg/L	64825	1	11/30/2005 4:40 PM
Surr: 4-Bromofluorobenzene	79.3	63.7-115		%REC	64825	1	11/30/2005 4:40 PM
Surr: Dibromofluoromethane	90.4	70.4-123		%REC	64825	1	11/30/2005 4:40 PM
Surr: Toluene-d8	91.3	73.4-115		%REC	64825	1	11/30/2005 4:40 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *09-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Southers Grocery
Lab ID: 0511D90-002

Client Sample ID: MW-22
Collection Date: 11/23/2005 9:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	64785	1	11/30/2005 3:25 AM
Surr: 4-Bromofluorobenzene	93.0	39.4-142		%REC	64785	1	11/30/2005 3:25 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	BRL	1.00		µg/L	64794	1	11/30/2005 7:09 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64825	1	11/30/2005 5:05 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64825	1	11/30/2005 5:05 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64825	1	11/30/2005 5:05 PM
Isopropyl ether	BRL	5.0	N	µg/L	64825	1	11/30/2005 5:05 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64825	1	11/30/2005 5:05 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64825	1	11/30/2005 5:05 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64825	1	11/30/2005 5:05 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64825	1	11/30/2005 5:05 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64825	1	11/30/2005 5:05 PM
Benzene	BRL	1.0		µg/L	64825	1	11/30/2005 5:05 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64825	1	11/30/2005 5:05 PM
Toluene	BRL	1.0		µg/L	64825	1	11/30/2005 5:05 PM
Ethylbenzene	BRL	1.0		µg/L	64825	1	11/30/2005 5:05 PM
m,p-Xylene	BRL	1.0		µg/L	64825	1	11/30/2005 5:05 PM
o-Xylene	BRL	1.0		µg/L	64825	1	11/30/2005 5:05 PM
Naphthalene	BRL	5.0		µg/L	64825	1	11/30/2005 5:05 PM
Surr: 4-Bromofluorobenzene	78.1	63.7-115		%REC	64825	1	11/30/2005 5:05 PM
Surr: Dibromofluoromethane	88.2	70.4-123		%REC	64825	1	11/30/2005 5:05 PM
Surr: Toluene-d8	95.3	73.4-115		%REC	64825	1	11/30/2005 5:05 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *09-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Southers Grocery
Lab ID: 0511D90-003

Client Sample ID: MW-20
Collection Date: 11/23/2005 10:30:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	64785	1	11/30/2005 3:48 AM
Surr: 4-Bromofluorobenzene	91.2	39.4-142		%REC	64785	1	11/30/2005 3:48 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	BRL	1.00		µg/L	64794	1	11/30/2005 7:25 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64825	1	11/30/2005 5:30 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64825	1	11/30/2005 5:30 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64825	1	11/30/2005 5:30 PM
Isopropyl ether	BRL	5.0	N	µg/L	64825	1	11/30/2005 5:30 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64825	1	11/30/2005 5:30 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64825	1	11/30/2005 5:30 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64825	1	11/30/2005 5:30 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64825	1	11/30/2005 5:30 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64825	1	11/30/2005 5:30 PM
Benzene	BRL	1.0		µg/L	64825	1	11/30/2005 5:30 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64825	1	11/30/2005 5:30 PM
Toluene	BRL	1.0		µg/L	64825	1	11/30/2005 5:30 PM
Ethylbenzene	BRL	1.0		µg/L	64825	1	11/30/2005 5:30 PM
m,p-Xylene	BRL	1.0		µg/L	64825	1	11/30/2005 5:30 PM
o-Xylene	BRL	1.0		µg/L	64825	1	11/30/2005 5:30 PM
Naphthalene	BRL	5.0		µg/L	64825	1	11/30/2005 5:30 PM
Surr: 4-Bromofluorobenzene	82.1	63.7-115		%REC	64825	1	11/30/2005 5:30 PM
Surr: Dibromofluoromethane	90.3	70.4-123		%REC	64825	1	11/30/2005 5:30 PM
Surr: Toluene-d8	95.4	73.4-115		%REC	64825	1	11/30/2005 5:30 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *09-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Southers Grocery
Lab ID: 0511D90-004

Client Sample ID: MW-19
Collection Date: 11/23/2005 11:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	64785	1	11/30/2005 4:11 AM
Surr: 4-Bromofluorobenzene	116	39.4-142		%REC	64785	1	11/30/2005 4:11 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	3.14	1.00		µg/L	64794	1	11/30/2005 7:30 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64780	1	11/30/2005 5:55 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64780	1	11/30/2005 5:55 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64780	1	11/30/2005 5:55 PM
Isopropyl ether	BRL	5.0	N	µg/L	64780	1	11/30/2005 5:55 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64780	1	11/30/2005 5:55 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64780	1	11/30/2005 5:55 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64780	1	11/30/2005 5:55 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64780	1	11/30/2005 5:55 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64780	1	11/30/2005 5:55 PM
Benzene	6.8	1.0		µg/L	64780	1	11/30/2005 5:55 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64780	1	11/30/2005 5:55 PM
Toluene	3.2	1.0		µg/L	64780	1	11/30/2005 5:55 PM
Ethylbenzene	BRL	1.0		µg/L	64780	1	11/30/2005 5:55 PM
m,p-Xylene	22	1.0		µg/L	64780	1	11/30/2005 5:55 PM
o-Xylene	6.1	1.0		µg/L	64780	1	11/30/2005 5:55 PM
Naphthalene	BRL	5.0		µg/L	64780	1	11/30/2005 5:55 PM
Surr: 4-Bromofluorobenzene	86.7	63.7-115		%REC	64780	1	11/30/2005 5:55 PM
Surr: Dibromofluoromethane	83.2	70.4-123		%REC	64780	1	11/30/2005 5:55 PM
Surr: Toluene-d8	98.6	73.4-115		%REC	64780	1	11/30/2005 5:55 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *09-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Southers Grocery
Lab ID: 0511D90-005

Client Sample ID: MW-11
Collection Date: 11/23/2005 10:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	64785	1	11/30/2005 4:34 AM
Surr: 4-Bromofluorobenzene	130	39.4-142		%REC	64785	1	11/30/2005 4:34 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	77.3	1.00		µg/L	64794	1	11/30/2005 7:36 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	1200	N	µg/L	64780	50	11/29/2005 4:48 PM
Ethyl tert-butyl alcohol	BRL	250	N	µg/L	64780	50	11/29/2005 4:48 PM
Ethyl tert-butyl ether	BRL	250	N	µg/L	64780	50	11/29/2005 4:48 PM
Isopropyl ether	BRL	250	N	µg/L	64780	50	11/29/2005 4:48 PM
tert-Amyl alcohol	BRL	250	N	µg/L	64780	50	11/29/2005 4:48 PM
tert-Amyl methyl ether	BRL	250	N	µg/L	64780	50	11/29/2005 4:48 PM
tert-Butyl Alcohol	BRL	250	N	µg/L	64780	50	11/29/2005 4:48 PM
tert-Butyl formate	BRL	250	N	µg/L	64780	50	11/29/2005 4:48 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	50		µg/L	64780	50	11/29/2005 4:48 PM
Benzene	BRL	50		µg/L	64780	50	11/29/2005 4:48 PM
1,2-Dichloroethane	BRL	250		µg/L	64780	50	11/29/2005 4:48 PM
Toluene	120	50		µg/L	64780	50	11/29/2005 4:48 PM
Ethylbenzene	1300	50		µg/L	64780	50	11/29/2005 4:48 PM
m,p-Xylene	7500	50		µg/L	64780	50	11/29/2005 4:48 PM
o-Xylene	1900	50		µg/L	64780	50	11/29/2005 4:48 PM
Naphthalene	1100	250		µg/L	64780	50	11/29/2005 4:48 PM
Surr: 4-Bromofluorobenzene	86.9	63.7-115		%REC	64780	50	11/29/2005 4:48 PM
Surr: Dibromofluoromethane	80.2	70.4-123		%REC	64780	50	11/29/2005 4:48 PM
Surr: Toluene-d8	90.2	73.4-115		%REC	64780	50	11/29/2005 4:48 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *09-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Southers Grocery
Lab ID: 0511D90-006

Client Sample ID: MW-8
Collection Date: 11/23/2005 9:30:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	1140	99.0		µg/L	64785	5000	11/30/2005 9:59 AM
Surr: 4-Bromofluorobenzene	0	39.4-142	S	%REC	64785	1	11/30/2005 4:57 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	457	1.00		µg/L	64794	1	11/30/2005 7:41 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	12000	N	µg/L	64780	500	11/29/2005 4:23 PM
Ethyl tert-butyl alcohol	BRL	2500	N	µg/L	64780	500	11/29/2005 4:23 PM
Ethyl tert-butyl ether	BRL	2500	N	µg/L	64780	500	11/29/2005 4:23 PM
Isopropyl ether	44000	2500	N	µg/L	64780	500	11/29/2005 4:23 PM
tert-Amyl alcohol	BRL	2500	N	µg/L	64780	500	11/29/2005 4:23 PM
tert-Amyl methyl ether	BRL	2500	N	µg/L	64780	500	11/29/2005 4:23 PM
tert-Butyl Alcohol	BRL	2500	N	µg/L	64780	500	11/29/2005 4:23 PM
tert-Butyl formate	BRL	2500	N	µg/L	64780	500	11/29/2005 4:23 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	500		µg/L	64780	500	11/29/2005 4:23 PM
Benzene	57000	500		µg/L	64780	500	11/29/2005 4:23 PM
1,2-Dichloroethane	BRL	2500		µg/L	64780	500	11/29/2005 4:23 PM
Toluene	380000	5000		µg/L	64780	5000	11/30/2005 4:15 PM
Ethylbenzene	34000	500		µg/L	64780	500	11/29/2005 4:23 PM
m,p-Xylene	120000	500		µg/L	64780	500	11/29/2005 4:23 PM
o-Xylene	47000	500		µg/L	64780	500	11/29/2005 4:23 PM
Naphthalene	12000	2500		µg/L	64780	500	11/29/2005 4:23 PM
Surr: 4-Bromofluorobenzene	89.4	63.7-115		%REC	64780	500	11/29/2005 4:23 PM
Surr: 4-Bromofluorobenzene	91.2	63.7-115		%REC	64780	5000	11/30/2005 4:15 PM
Surr: Dibromofluoromethane	78.9	70.4-123		%REC	64780	500	11/29/2005 4:23 PM
Surr: Dibromofluoromethane	82.4	70.4-123		%REC	64780	5000	11/30/2005 4:15 PM
Surr: Toluene-d8	91.6	73.4-115		%REC	64780	500	11/29/2005 4:23 PM
Surr: Toluene-d8	92.4	73.4-115		%REC	64780	5000	11/30/2005 4:15 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *09-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Southers Grocery
Lab ID: 0511D90-007

Client Sample ID: TRIPBLANK
Collection Date: 11/23/2005
Matrix: TRIP BLANK

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	64825	1	11/30/2005 3:50 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	64825	1	11/30/2005 3:50 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	64825	1	11/30/2005 3:50 PM
Isopropyl ether	BRL	5.0	N	µg/L	64825	1	11/30/2005 3:50 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	64825	1	11/30/2005 3:50 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	64825	1	11/30/2005 3:50 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	64825	1	11/30/2005 3:50 PM
tert-Butyl formate	BRL	5.0	N	µg/L	64825	1	11/30/2005 3:50 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	64825	1	11/30/2005 3:50 PM
Benzene	BRL	1.0		µg/L	64825	1	11/30/2005 3:50 PM
1,2-Dichloroethane	BRL	5.0		µg/L	64825	1	11/30/2005 3:50 PM
Toluene	BRL	1.0		µg/L	64825	1	11/30/2005 3:50 PM
Ethylbenzene	BRL	1.0		µg/L	64825	1	11/30/2005 3:50 PM
m,p-Xylene	BRL	1.0		µg/L	64825	1	11/30/2005 3:50 PM
o-Xylene	BRL	1.0		µg/L	64825	1	11/30/2005 3:50 PM
Naphthalene	BRL	5.0		µg/L	64825	1	11/30/2005 3:50 PM
Surr: 4-Bromofluorobenzene	81.0	63.7-115		%REC	64825	1	11/30/2005 3:50 PM
Surr: Dibromofluoromethane	88.7	70.4-123		%REC	64825	1	11/30/2005 3:50 PM
Surr: Toluene-d8	95.4	73.4-115		%REC	64825	1	11/30/2005 3:50 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

CLIENT: Consultech Environmental, Inc.
Work Order: 0511D90
Project: Southers Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W

Sample ID **MB-64794** SampType: **MBLK** TestCode: **6020_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75526**
Client ID: Batch ID: **64794** TestNo: **SW6020** Analysis Date: **11/30/2005** SeqNo: **1493263**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	BRL	1.00									

Sample ID **LCS-64794** SampType: **LCS** TestCode: **6020_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75526**
Client ID: Batch ID: **64794** TestNo: **SW6020** Analysis Date: **11/30/2005** SeqNo: **1493262**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	103.6	1.00	100	0	104	85	115	0	0		

Sample ID **0511D90-001CMS** SampType: **MS** TestCode: **6020_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75526**
Client ID: **MW-21** Batch ID: **64794** TestNo: **SW6020** Analysis Date: **11/30/2005** SeqNo: **1493265**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	102.6	1.00	100	0	103	70	130	0	0		

Sample ID **0511D90-001CMSD** SampType: **MSD** TestCode: **6020_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75526**
Client ID: **MW-21** Batch ID: **64794** TestNo: **SW6020** Analysis Date: **11/30/2005** SeqNo: **1493266**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	103.4	1.00	100	0	103	70	130	102.6	0.777	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0511D90
Project: Southers Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8011_W

Sample ID	SampType	TestCode	Units	Prep Date	RunNo
MB-64785	**MBLK**	**8011_W**	**µg/L**	**11/29/2005**	**75465**
Client ID:	Batch ID: **64785**	TestNo: **SW8011**		Analysis Date: **11/30/2005**	SeqNo: **1492340**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	BRL	0.0200									
Surr: 4-Bromofluorobenzene	4.501	0.0500	5	0	90	39.4	142	0	0		

Sample ID	SampType	TestCode	Units	Prep Date	RunNo
LCS-64785	**LCS**	**8011_W**	**µg/L**	**11/29/2005**	**75465**
Client ID:	Batch ID: **64785**	TestNo: **SW8011**		Analysis Date: **11/30/2005**	SeqNo: **1492499**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.132	0.0200	0.1	0	132	55.1	139	0	0		
Surr: 4-Bromofluorobenzene	3.742	0.0500	5	0	74.8	39.4	142	0	0		

Sample ID	SampType	TestCode	Units	Prep Date	RunNo
LCSD-64785	**LCSD**	**8011_W**	**µg/L**	**11/29/2005**	**75465**
Client ID:	Batch ID: **64785**	TestNo: **SW8011**		Analysis Date: **11/30/2005**	SeqNo: **1492342**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.137	0.0200	0.1	0	137	55.1	139	0.15	0	18.5	
Surr: 4-Bromofluorobenzene	4.156	0.0500	5	0	83.1	39.4	142	4.59	0	0	

Sample ID	SampType	TestCode	Units	Prep Date	RunNo
0511D90-001BMS	**MS**	**8011_W**	**µg/L**	**11/29/2005**	**75465**
Client ID: **MW-21**	Batch ID: **64785**	TestNo: **SW8011**		Analysis Date: **11/30/2005**	SeqNo: **1492344**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.07105	0.0197	0.09867	0	72	40.7	148	0	0		
Surr: 4-Bromofluorobenzene	3.905	0.0493	4.934	0	79.1	39.4	142	0	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0511D90
Project: Southers Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_OXY_W

Sample ID **MB-64780** SampType: **MBLK** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/28/2005** RunNo: **75384**
Client ID: Batch ID: **64780** TestNo: **SW8260B** Analysis Date: **11/28/2005** SeqNo: **1490825**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	BRL	25									
Ethyl tert-butyl alcohol	BRL	5.0									
Ethyl tert-butyl ether	BRL	5.0									
Isopropyl ether	BRL	5.0									
tert-Amyl alcohol	BRL	5.0									
tert-Amyl methyl ether	BRL	5.0									
tert-Butyl Alcohol	BRL	5.0									
tert-Butyl formate	BRL	5.0									

Sample ID **MB-64825** SampType: **MBLK** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75432**
Client ID: Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/29/2005** SeqNo: **1492594**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	BRL	25									
Ethyl tert-butyl alcohol	BRL	5.0									
Ethyl tert-butyl ether	BRL	5.0									
Isopropyl ether	BRL	5.0									
tert-Amyl alcohol	BRL	5.0									
tert-Amyl methyl ether	BRL	5.0									
tert-Butyl Alcohol	BRL	5.0									
tert-Butyl formate	BRL	5.0									

Sample ID **MB-64825** SampType: **MBLK** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75499**
Client ID: Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/30/2005** SeqNo: **1492807**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	BRL	25									
Ethyl tert-butyl alcohol	BRL	5.0									
Ethyl tert-butyl ether	BRL	5.0									
Isopropyl ether	BRL	5.0									

Qualifiers:
B Analyte detected in the associated Method Blank
BRL Below Reporting Limit
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
N Analyte not NELAC certified
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Consultech Environmental, Inc.
Work Order: 0511D90
Project: Southers Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_OXY_W

Sample ID **MB-64825** SampType: **MBLK** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75499**
Client ID: Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/30/2005** SeqNo: **1492807**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
tert-Amyl alcohol	BRL	5.0									
tert-Amyl methyl ether	BRL	5.0									
tert-Butyl Alcohol	BRL	5.0									
tert-Butyl formate	BRL	5.0									

Sample ID **LCS-64780** SampType: **LCS** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/28/2005** RunNo: **75384**
Client ID: Batch ID: **64780** TestNo: **SW8260B** Analysis Date: **11/28/2005** SeqNo: **1490826**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	192	25	250	0	76.8	50	150	0	0		
Ethyl tert-butyl alcohol	170.2	5.0	250	0	68.1	50	150	0	0		
Ethyl tert-butyl ether	48.24	5.0	50	0	96.5	50	150	0	0		
Isopropyl ether	46.79	5.0	50	0	93.6	50	150	0	0		
tert-Amyl alcohol	216.7	5.0	250	0	86.7	50	150	0	0		
tert-Amyl methyl ether	46.92	5.0	50	0	93.8	50	150	0	0		
tert-Butyl Alcohol	181.7	5.0	250	0	72.7	50	150	0	0		
tert-Butyl formate	250.4	5.0	250	0	100	50	150	0	0		

Sample ID **LCS-64825** SampType: **LCS** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75432**
Client ID: Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/29/2005** SeqNo: **1492510**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	180.2	25	250	0	72.1	50	150	0	0		
Ethyl tert-butyl alcohol	223.7	5.0	250	0	89.5	50	150	0	0		
Ethyl tert-butyl ether	44.78	5.0	50	0	89.6	50	150	0	0		
Isopropyl ether	41.31	5.0	50	0	82.6	50	150	0	0		
tert-Amyl alcohol	280	5.0	250	0	112	50	150	0	0		
tert-Amyl methyl ether	44.11	5.0	50	0	88.2	50	150	0	0		
tert-Butyl Alcohol	183.8	5.0	250	0	73.5	50	150	0	0		
tert-Butyl formate	191.8	5.0	250	0	76.7	50	150	0	0		

Qualifiers:
B Analyte detected in the associated Method Blank
BRL Below Reporting Limit
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
N Analyte not NELAC certified
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Consultech Environmental, Inc.
Work Order: 0511D90
Project: Southers Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_OXY_W

Sample ID **0511C76-009AMS** SampType: **MS** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/28/2005** RunNo: **75384**
Client ID: Batch ID: **64780** TestNo: **SW8260B** Analysis Date: **11/28/2005** SeqNo: **1491440**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	443.3	25	250	0	177	50	150	0	0		S
Ethyl tert-butyl alcohol	223.9	5.0	250	0	89.6	50	150	0	0		
Ethyl tert-butyl ether	54.97	5.0	50	0	110	50	150	0	0		
Isopropyl ether	54.3	5.0	50	0	109	50	150	0	0		
tert-Amyl alcohol	295.2	5.0	250	0	118	50	150	0	0		
tert-Amyl methyl ether	52.7	5.0	50	0	105	50	150	0	0		
tert-Butyl Alcohol	465.4	5.0	250	0	186	50	150	0	0		S
tert-Butyl formate	6.21	5.0	250	0	2.48	50	150	0	0		S

Sample ID **0511C76-013AMS** SampType: **MS** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75499**
Client ID: Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/30/2005** SeqNo: **1492838**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	341.7	25	250	0	137	50	150	0	0		
Ethyl tert-butyl alcohol	222.7	5.0	250	0	89.1	50	150	0	0		
Ethyl tert-butyl ether	49.15	5.0	50	0	98.3	50	150	0	0		
Isopropyl ether	48.35	5.0	50	0	96.7	50	150	0	0		
tert-Amyl alcohol	298.7	5.0	250	0	119	50	150	0	0		
tert-Amyl methyl ether	46.7	5.0	50	0	93.4	50	150	0	0		
tert-Butyl Alcohol	288.4	5.0	250	0	115	50	150	0	0		
tert-Butyl formate	244.1	5.0	250	0	97.6	50	150	0	0		

Sample ID **0511C76-009AMSD** SampType: **MSD** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/28/2005** RunNo: **75384**
Client ID: Batch ID: **64780** TestNo: **SW8260B** Analysis Date: **11/28/2005** SeqNo: **1491441**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	480.7	25	250	0	192	50	150	443.3	8.10	40	S
Ethyl tert-butyl alcohol	221.8	5.0	250	0	88.7	50	150	223.9	0.951	40	
Ethyl tert-butyl ether	55.21	5.0	50	0	110	50	150	54.97	0.436	40	
Isopropyl ether	53.73	5.0	50	0	107	50	150	54.3	1.06	40	

Qualifiers:
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0511D90
Project: Southers Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_OXY_W

Sample ID **0511C76-009AMSD** SampType: **MSD** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/28/2005** RunNo: **75384**
Client ID: Batch ID: **64780** TestNo: **SW8260B** Analysis Date: **11/28/2005** SeqNo: **1491441**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
tert-Amyl alcohol	279.5	5.0	250	0	112	50	150	295.2	5.45	40	
tert-Amyl methyl ether	49.28	5.0	50	0	98.6	50	150	52.7	6.71	40	
tert-Butyl Alcohol	464.1	5.0	250	0	186	50	150	465.4	0.273	40	S
tert-Butyl formate	5.24	5.0	250	0	2.1	50	150	6.21	16.9	40	S

Sample ID **0511C76-013AMSD** SampType: **MSD** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75499**
Client ID: Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/30/2005** SeqNo: **1492808**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	318.4	25	250	0	127	50	150	341.7	7.06	40	
Ethyl tert-butyl alcohol	229.1	5.0	250	0	91.7	50	150	222.7	2.83	40	
Ethyl tert-butyl ether	49.58	5.0	50	0	99.2	50	150	49.15	0.871	40	
Isopropyl ether	47.88	5.0	50	0	95.8	50	150	48.35	0.977	40	
tert-Amyl alcohol	288.5	5.0	250	0	115	50	150	298.7	3.48	40	
tert-Amyl methyl ether	45.87	5.0	50	0	91.7	50	150	46.7	1.79	40	
tert-Butyl Alcohol	275.9	5.0	250	0	110	50	150	288.4	4.43	40	
tert-Butyl formate	256.6	5.0	250	0	103	50	150	244.1	5.01	40	

Qualifiers:
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0511D90
Project: Southers Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID **MB-64780** SampType: **MBLK** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/28/2005** RunNo: **75384**
Client ID: Batch ID: **64780** TestNo: **SW8260B** Analysis Date: **11/28/2005** SeqNo: **1490799**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	BRL	5.0									
Benzene	BRL	5.0									
Ethylbenzene	BRL	5.0									
m,p-Xylene	BRL	10									
Methyl tert-butyl ether	BRL	5.0									
Naphthalene	BRL	5.0									
o-Xylene	BRL	5.0									
Toluene	BRL	5.0									
Surr: 4-Bromofluorobenzene	38.86	5.0	50	0	77.7	63.7	115	0	0		
Surr: Dibromofluoromethane	44.01	5.0	50	0	88	70.4	123	0	0		
Surr: Toluene-d8	47.3	5.0	50	0	94.6	73.4	115	0	0		

Sample ID **MB-64825** SampType: **MBLK** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75432**
Client ID: Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/29/2005** SeqNo: **1491547**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	BRL	5.0									
Benzene	BRL	5.0									
Ethylbenzene	BRL	5.0									
m,p-Xylene	BRL	10									
Methyl tert-butyl ether	BRL	5.0									
Naphthalene	BRL	5.0									
o-Xylene	BRL	5.0									
Toluene	BRL	5.0									
Surr: 4-Bromofluorobenzene	39.59	5.0	50	0	79.2	63.7	115	0	0		
Surr: Dibromofluoromethane	42.77	5.0	50	0	85.5	70.4	123	0	0		
Surr: Toluene-d8	45.58	5.0	50	0	91.2	73.4	115	0	0		

Qualifiers:
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0511D90
Project: Southers Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID **MB-64825** SampType: **MBLK** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75499**
Client ID: Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/30/2005** SeqNo: **1492756**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	BRL	5.0									
Benzene	BRL	5.0									
Ethylbenzene	BRL	5.0									
m,p-Xylene	BRL	10									
Methyl tert-butyl ether	BRL	5.0									
Naphthalene	BRL	5.0									
o-Xylene	BRL	5.0									
Toluene	BRL	5.0									
Surr: 4-Bromofluorobenzene	40.75	5.0	50	0	81.5	63.7	115	0	0		
Surr: Dibromofluoromethane	43.04	5.0	50	0	86.1	70.4	123	0	0		
Surr: Toluene-d8	44.66	5.0	50	0	89.3	73.4	115	0	0		

Sample ID **LCS-64780** SampType: **LCS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/28/2005** RunNo: **75384**
Client ID: Batch ID: **64780** TestNo: **SW8260B** Analysis Date: **11/28/2005** SeqNo: **1490800**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	46.36	5.0	50	0	92.7	77.4	127	0	0		
Toluene	49.66	5.0	50	0	99.3	79.6	127	0	0		
Surr: 4-Bromofluorobenzene	38.78	5.0	50	0	77.6	63.7	115	0	0		
Surr: Dibromofluoromethane	42.45	5.0	50	0	84.9	70.4	123	0	0		
Surr: Toluene-d8	47.97	5.0	50	0	95.9	73.4	115	0	0		

Sample ID **LCS-64825** SampType: **LCS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75432**
Client ID: Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/29/2005** SeqNo: **1492357**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	48.26	5.0	50	0	96.5	77.4	127	0	0		
Toluene	49.14	5.0	50	0	98.3	79.6	127	0	0		
Surr: 4-Bromofluorobenzene	42.23	5.0	50	0	84.5	63.7	115	0	0		
Surr: Dibromofluoromethane	39.21	5.0	50	0	78.4	70.4	123	0	0		

Qualifiers:
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0511D90
Project: Southers Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID **LCS-64825** SampType: **LCS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75432**
Client ID: Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/29/2005** SeqNo: **1492357**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	46.07	5.0	50	0	92.1	73.4	115	0	0		

Sample ID **0511C76-009AMS** SampType: **MS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/28/2005** RunNo: **75384**
Client ID: Batch ID: **64780** TestNo: **SW8260B** Analysis Date: **11/28/2005** SeqNo: **1491321**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	46.33	5.0	50	0	92.7	72.6	130	0	0		
Toluene	55.07	5.0	50	4.81	101	74.7	129	0	0		
Surr: 4-Bromofluorobenzene	41.18	5.0	50	0	82.4	63.7	115	0	0		
Surr: Dibromofluoromethane	40.64	5.0	50	0	81.3	70.4	123	0	0		
Surr: Toluene-d8	48.2	5.0	50	0	96.4	73.4	115	0	0		

Sample ID **0511C76-013AMS** SampType: **MS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75499**
Client ID: Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/30/2005** SeqNo: **1492776**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	49.51	5.0	50	0	99	72.6	130	0	0		
Toluene	52.17	5.0	50	0	104	74.7	129	0	0		
Surr: 4-Bromofluorobenzene	39.87	5.0	50	0	79.7	63.7	115	0	0		
Surr: Dibromofluoromethane	40.86	5.0	50	0	81.7	70.4	123	0	0		
Surr: Toluene-d8	48.27	5.0	50	0	96.5	73.4	115	0	0		

Sample ID **0511C76-009AMSD** SampType: **MSD** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/28/2005** RunNo: **75384**
Client ID: Batch ID: **64780** TestNo: **SW8260B** Analysis Date: **11/28/2005** SeqNo: **1491323**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	45.06	5.0	50	0	90.1	72.6	130	0	0	10	
Toluene	52.9	5.0	50	4.81	96.2	74.7	129	0	0	10	
Surr: 4-Bromofluorobenzene	39.66	5.0	50	0	79.3	63.7	115	0	0	0	
Surr: Dibromofluoromethane	39.53	5.0	50	0	79.1	70.4	123	0	0	0	

Qualifiers:
B Analyte detected in the associated Method Blank
BRL Below Reporting Limit
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
N Analyte not NELAC certified
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Consultech Environmental, Inc.
Work Order: 0511D90
Project: Southers Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID **0511C76-009AMSD** SampType: **MSD** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/28/2005** RunNo: **75384**
Client ID: Batch ID: **64780** TestNo: **SW8260B** Analysis Date: **11/28/2005** SeqNo: **1491323**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	48.19	5.0	50	0	96.4	73.4	115	0	0	0	

Sample ID **0511C76-013AMSD** SampType: **MSD** TestCode: **8260B_W** Units: **µg/L** Prep Date: **11/29/2005** RunNo: **75499**
Client ID: Batch ID: **64825** TestNo: **SW8260B** Analysis Date: **11/30/2005** SeqNo: **1492777**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	49.27	5.0	50	0	98.5	72.6	130	49.51	0.486	10	
Toluene	50.6	5.0	50	0	101	74.7	129	52.17	3.06	10	
Surr: 4-Bromofluorobenzene	39.57	5.0	50	0	79.1	63.7	115	39.87	0	0	
Surr: Dibromofluoromethane	41.43	5.0	50	0	82.9	70.4	123	40.86	0	0	
Surr: Toluene-d8	47.04	5.0	50	0	94.1	73.4	115	48.27	0	0	

Qualifiers:
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
N Analyte not NELAC certified

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

December 16, 2005

Jim Wilson
Consultech Environmental, Inc.
1800 MacLeod Rd Suite F
Suite F
Lawrenceville, GA 30043

TEL: (678) 377-0400
FAX (678) 377-0051

RE: Souther's Grocery

Order No.: 0512376

Dear Jim Wilson:

Analytical Environmental Services, Inc. received 15 samples on 12/8/2005 9:55:00 AM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. Sample results are not dry weight corrected, unless if Pmoist analysis are requested on the chain of custody or other project specific arrangements have been made.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 06/01/05-06/30/06.
-AIHA Certification number 505 for analysis of Industrial Hygiene samples (Organics, Inorganics), Paint Chips, Soil and Dust Wipes, effective until 02/01/07.

These results relate only to the items tested. This report may only be reproduced in full and contains 47 total pages (including cover letter).

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

Sincerely,

Mila Crain

Mila Crain
Customer Service Manager

ANA! 'ICAL ENVIRONMENTAL SERVICES, INC

3785 Presidential Parkway, Atlanta GA 30340-3704

AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 2376

Date: _____ Page _____ of _____

COMPANY: Consultech Environmental

ADDRESS: 1800 Mockard Dr. Suite F. Lawrenceville Ga. 30043

PHONE: 678 377 0400

FAX:

SAMPLED BY: Drew Miller

SIGNATURE: Drew Miller

ANALYSIS REQUESTED

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	BTEX MGL NAPH (8260)	EDB 8011	Total Lead	Dissolved Iron	Nitrate Sulfate	Methane								REMARKS	No # of Containers
							PRESERVATION (See codes)														
							2	2	1	1	1	2									
1	RW-1	12/6	1130			GW	X	X	X												5
2	PW-1	12/6	1145				X	X	X												5
3	PW-2	12/6	1100				X	X	X												5
4	MW-12	12/6	1300				X	X	X												5
5	MW-16	12/6	1215				X	X	X												5
6	MW 23	12/6	1200				X	X	X												5
7	MW-24	12/6	1230				X	X	X												5
8	MW-25	12/6	1245				X	X	X												5
9	MW-26	12/7	1100				X	X	X	X	X	X									9
10	MW-29	12/7	930				X	X	X	X	X	X									9
11	MW-32	12/7	900				X	X	X	X	X	X									9
12	MW-15R	12/7	1000				X	X	X	X	X	X									9
13	MW-14R	12/7	1200				X	X	X	X	X	X									9
14																					

RELINQUISHED BY	DATE TIME	RECEIVED BY	DATE TIME
1: Drew Miller	12/8	1: [illegible]	12/8/05 9:55
2:		2:	
3:		3:	

SPECIAL INSTRUCTIONS COMMENTS:

SHIPMENT METHOD

OUT: VIA

IN: VIA

CLIENT FedEx UPS MAIL COURIER GREYHOUND OTHER

PROJECT INFORMATION

PROJECT NAME: Southern Grading

PROJECT #: C-05-02-015

SITE ADDRESS: Campobello S.C.

SEND REPORT TO: Jim Wilson

INVOICE TO (IF DIFFERENT FROM ABOVE):

QUOTE # ____ PO# ____

RECEIPT

Total # of Containers: 85

Turnaround Time Request

- (●) Standard 5 Business Days
- ( ) 2 Business Day Rush
- ( ) Next Business Day Rush
- ( ) Same Day Rush (auth req.)
- ( ) Other _____

STATE PROGRAM (if any) _____

E-mail? Y N; Fax? Y N

DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A - Air GW - Groundwater SE - Sediment SO - Soil SW - Surface Water W - Water (Blanks) DW - Drinking Water (Blanks) O - Other (specify)

PRESERVATIVE CODES: H-1 - Hydrochloric acid + ice 1 - Ice only N - Nitric acid S-1 - Sulfuric acid + ice SM-1 - Sodium Bisulfate Methanol + ice O - Other (specify) NA - None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc.

Date: *16-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab Order: 0512376

CASE NARRATIVE

Sample Receipt Non-Conformance:

Two sets of trip blanks were provided but is not listed on the COC. Trip blank will be analyzed at no cost to client.

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 4th Edition. All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives unless indicated in the case narrative.

Volatile Organic Compounds Analysis by Method 8260B:

Matrix spike and matrix spike duplicate recoveries for tert-Butyl Alcohol on sample 0512376-006AMS/MSD were outside control limits biased high. LCS recovery was within control limits indicating possible matrix interference.

Matrix spike and matrix spike duplicate recoveries for tert-Butyl formate on sample 0512376-006AMS/MSD were outside control limits biased low. LCS recovery was within control limits indicating possible matrix interference.

RPD value for Ethanol on sample 0512376-006AMSD was outside advisory control limits due to suspected sample matrix interference. Percent recovery was within control limits.

Due to sample matrix, samples 0512376-001A, -010A, and -011A required dilution during preparation and/or analysis resulting in elevated reporting limits.

EDB/DBCP Analysis by Method 8011:

Percent recovery for the surrogate spiking compound on sample 0512376-010C was outside control limits biased low due to matrix interference.

Analytical Environmental Services, Inc.

Date: *16-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0512376-001

Client Sample ID: RW-1
Collection Date: 12/6/2005 11:30:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	13.8	1.96		µg/L	65318	100	12/13/2005 11:43 AM
Surr: 4-Bromofluorobenzene	91.9	39.4-142		%REC	65318	1	12/13/2005 12:58 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	18.3	1.00		µg/L	65221	1	12/13/2005 2:46 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	12000	N	µg/L	65243	500	12/9/2005 1:51 PM
Ethyl tert-butyl alcohol	BRL	2500	N	µg/L	65243	500	12/9/2005 1:51 PM
Ethyl tert-butyl ether	BRL	2500	N	µg/L	65243	500	12/9/2005 1:51 PM
Isopropyl ether	2600	2500	N	µg/L	65243	500	12/9/2005 1:51 PM
tert-Amyl alcohol	BRL	2500	N	µg/L	65243	500	12/9/2005 1:51 PM
tert-Amyl methyl ether	BRL	2500	N	µg/L	65243	500	12/9/2005 1:51 PM
tert-Butyl Alcohol	BRL	2500	N	µg/L	65243	500	12/9/2005 1:51 PM
tert-Butyl formate	BRL	2500	N	µg/L	65243	500	12/9/2005 1:51 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	500		µg/L	65243	500	12/9/2005 1:51 PM
Benzene	9500	500		µg/L	65243	500	12/9/2005 1:51 PM
1,2-Dichloroethane	BRL	2500		µg/L	65243	500	12/9/2005 1:51 PM
Toluene	54000	500		µg/L	65243	500	12/9/2005 1:51 PM
Ethylbenzene	6400	500		µg/L	65243	500	12/9/2005 1:51 PM
m,p-Xylene	25000	500		µg/L	65243	500	12/9/2005 1:51 PM
o-Xylene	10000	500		µg/L	65243	500	12/9/2005 1:51 PM
Naphthalene	3400	2500		µg/L	65243	500	12/9/2005 1:51 PM
Surr: 4-Bromofluorobenzene	91.8	63.7-115		%REC	65243	500	12/9/2005 1:51 PM
Surr: Dibromofluoromethane	83.1	70.4-123		%REC	65243	500	12/9/2005 1:51 PM
Surr: Toluene-d8	93.0	73.4-115		%REC	65243	500	12/9/2005 1:51 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *16-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0512376-002

Client Sample ID: PW-1
Collection Date: 12/6/2005 11:45:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	65318	1	12/13/2005 1:21 AM
Surr: 4-Bromofluorobenzene	40.6	39.4-142		%REC	65318	1	12/13/2005 1:21 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	37.1	1.00		µg/L	65221	1	12/13/2005 2:51 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	1200	25	N	µg/L	65243	1	12/9/2005 8:09 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	65243	1	12/9/2005 8:09 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65243	1	12/9/2005 8:09 PM
Isopropyl ether	BRL	5.0	N	µg/L	65243	1	12/9/2005 8:09 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	65243	1	12/9/2005 8:09 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	65243	1	12/9/2005 8:09 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	65243	1	12/9/2005 8:09 PM
tert-Butyl formate	BRL	5.0	N	µg/L	65243	1	12/9/2005 8:09 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	65243	1	12/9/2005 8:09 PM
Benzene	BRL	1.0		µg/L	65243	1	12/9/2005 8:09 PM
1,2-Dichloroethane	BRL	5.0		µg/L	65243	1	12/9/2005 8:09 PM
Toluene	3.1	1.0		µg/L	65243	1	12/9/2005 8:09 PM
Ethylbenzene	BRL	1.0		µg/L	65243	1	12/9/2005 8:09 PM
m,p-Xylene	2.4	1.0		µg/L	65243	1	12/9/2005 8:09 PM
o-Xylene	3.5	1.0		µg/L	65243	1	12/9/2005 8:09 PM
Naphthalene	BRL	5.0		µg/L	65243	1	12/9/2005 8:09 PM
Surr: 4-Bromofluorobenzene	83.9	63.7-115		%REC	65243	1	12/9/2005 8:09 PM
Surr: Dibromofluoromethane	93.2	70.4-123		%REC	65243	1	12/9/2005 8:09 PM
Surr: Toluene-d8	91.3	73.4-115		%REC	65243	1	12/9/2005 8:09 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *16-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0512376-003

Client Sample ID: PW-2
Collection Date: 12/6/2005 11:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	0.063	0.020		µg/L	65318	1	12/13/2005 1:44 AM
Surr: 4-Bromofluorobenzene	40.2	39.4-142		%REC	65318	1	12/13/2005 1:44 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	BRL	1.00		µg/L	65221	1	12/13/2005 2:57 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	65243	1	12/12/2005 3:34 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 3:34 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 3:34 PM
Isopropyl ether	81	5.0	N	µg/L	65243	1	12/12/2005 3:34 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 3:34 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 3:34 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 3:34 PM
tert-Butyl formate	BRL	5.0	N	µg/L	65243	1	12/12/2005 3:34 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	65243	1	12/12/2005 3:34 PM
Benzene	BRL	1.0		µg/L	65243	1	12/12/2005 3:34 PM
1,2-Dichloroethane	BRL	5.0		µg/L	65243	1	12/12/2005 3:34 PM
Toluene	BRL	1.0		µg/L	65243	1	12/12/2005 3:34 PM
Ethylbenzene	BRL	1.0		µg/L	65243	1	12/12/2005 3:34 PM
m,p-Xylene	BRL	1.0		µg/L	65243	1	12/12/2005 3:34 PM
o-Xylene	BRL	1.0		µg/L	65243	1	12/12/2005 3:34 PM
Naphthalene	BRL	5.0		µg/L	65243	1	12/12/2005 3:34 PM
Surr: 4-Bromofluorobenzene	76.3	63.7-115		%REC	65243	1	12/12/2005 3:34 PM
Surr: Dibromofluoromethane	93.1	70.4-123		%REC	65243	1	12/12/2005 3:34 PM
Surr: Toluene-d8	92.2	73.4-115		%REC	65243	1	12/12/2005 3:34 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *16-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0512376-004

Client Sample ID: MW-12
Collection Date: 12/6/2005 1:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	65318	1	12/13/2005 2:30 AM
Surr: 4-Bromofluorobenzene	40.5	39.4-142		%REC	65318	1	12/13/2005 2:30 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	BRL	1.00		µg/L	65221	1	12/13/2005 3:02 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	65243	1	12/12/2005 3:59 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 3:59 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 3:59 PM
Isopropyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 3:59 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 3:59 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 3:59 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 3:59 PM
tert-Butyl formate	BRL	5.0	N	µg/L	65243	1	12/12/2005 3:59 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	65243	1	12/12/2005 3:59 PM
Benzene	BRL	1.0		µg/L	65243	1	12/12/2005 3:59 PM
1,2-Dichloroethane	BRL	5.0		µg/L	65243	1	12/12/2005 3:59 PM
Toluene	BRL	1.0		µg/L	65243	1	12/12/2005 3:59 PM
Ethylbenzene	BRL	1.0		µg/L	65243	1	12/12/2005 3:59 PM
m,p-Xylene	BRL	1.0		µg/L	65243	1	12/12/2005 3:59 PM
o-Xylene	BRL	1.0		µg/L	65243	1	12/12/2005 3:59 PM
Naphthalene	BRL	5.0		µg/L	65243	1	12/12/2005 3:59 PM
Surr: 4-Bromofluorobenzene	78.3	63.7-115		%REC	65243	1	12/12/2005 3:59 PM
Surr: Dibromofluoromethane	91.8	70.4-123		%REC	65243	1	12/12/2005 3:59 PM
Surr: Toluene-d8	91.1	73.4-115		%REC	65243	1	12/12/2005 3:59 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *16-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0512376-005

Client Sample ID: MW-16
Collection Date: 12/6/2005 12:15:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	65318	1	12/13/2005 2:53 AM
Surr: 4-Bromofluorobenzene	41.8	39.4-142		%REC	65318	1	12/13/2005 2:53 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	1.17	1.00		µg/L	65221	1	12/13/2005 3:07 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	65243	1	12/12/2005 4:24 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 4:24 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 4:24 PM
Isopropyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 4:24 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 4:24 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 4:24 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 4:24 PM
tert-Butyl formate	BRL	5.0	N	µg/L	65243	1	12/12/2005 4:24 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	65243	1	12/12/2005 4:24 PM
Benzene	BRL	1.0		µg/L	65243	1	12/12/2005 4:24 PM
1,2-Dichloroethane	BRL	5.0		µg/L	65243	1	12/12/2005 4:24 PM
Toluene	BRL	1.0		µg/L	65243	1	12/12/2005 4:24 PM
Ethylbenzene	BRL	1.0		µg/L	65243	1	12/12/2005 4:24 PM
m,p-Xylene	BRL	1.0		µg/L	65243	1	12/12/2005 4:24 PM
o-Xylene	BRL	1.0		µg/L	65243	1	12/12/2005 4:24 PM
Naphthalene	BRL	5.0		µg/L	65243	1	12/12/2005 4:24 PM
Surr: 4-Bromofluorobenzene	81.8	63.7-115		%REC	65243	1	12/12/2005 4:24 PM
Surr: Dibromofluoromethane	88.5	70.4-123		%REC	65243	1	12/12/2005 4:24 PM
Surr: Toluene-d8	90.6	73.4-115		%REC	65243	1	12/12/2005 4:24 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *16-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0512376-006

Client Sample ID: MW-23
Collection Date: 12/6/2005 12:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	65318	1	12/13/2005 3:16 AM
Surr: 4-Bromofluorobenzene	40.2	39.4-142		%REC	65318	1	12/13/2005 3:16 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	22.6	1.00		µg/L	65221	1	12/13/2005 3:13 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	65243	1	12/9/2005 6:54 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	65243	1	12/9/2005 6:54 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65243	1	12/9/2005 6:54 PM
Isopropyl ether	BRL	5.0	N	µg/L	65243	1	12/9/2005 6:54 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	65243	1	12/9/2005 6:54 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	65243	1	12/9/2005 6:54 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	65243	1	12/9/2005 6:54 PM
tert-Butyl formate	BRL	5.0	N	µg/L	65243	1	12/9/2005 6:54 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	65243	1	12/9/2005 6:54 PM
Benzene	BRL	1.0		µg/L	65243	1	12/9/2005 6:54 PM
1,2-Dichloroethane	BRL	5.0		µg/L	65243	1	12/9/2005 6:54 PM
Toluene	BRL	1.0		µg/L	65243	1	12/9/2005 6:54 PM
Ethylbenzene	BRL	1.0		µg/L	65243	1	12/9/2005 6:54 PM
m,p-Xylene	BRL	1.0		µg/L	65243	1	12/9/2005 6:54 PM
o-Xylene	BRL	1.0		µg/L	65243	1	12/9/2005 6:54 PM
Naphthalene	BRL	5.0		µg/L	65243	1	12/9/2005 6:54 PM
Surr: 4-Bromofluorobenzene	79.4	63.7-115		%REC	65243	1	12/9/2005 6:54 PM
Surr: Dibromofluoromethane	88.8	70.4-123		%REC	65243	1	12/9/2005 6:54 PM
Surr: Toluene-d8	91.6	73.4-115		%REC	65243	1	12/9/2005 6:54 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *16-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0512376-007

Client Sample ID: MW-24
Collection Date: 12/6/2005 12:30:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	65318	1	12/13/2005 3:39 AM
Surr: 4-Bromofluorobenzene	43.8	39.4-142		%REC	65318	1	12/13/2005 3:39 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	BRL	1.00		µg/L	65221	1	12/13/2005 3:18 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	65243	1	12/12/2005 4:49 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 4:49 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 4:49 PM
Isopropyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 4:49 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 4:49 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 4:49 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 4:49 PM
tert-Butyl formate	BRL	5.0	N	µg/L	65243	1	12/12/2005 4:49 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	65243	1	12/12/2005 4:49 PM
Benzene	BRL	1.0		µg/L	65243	1	12/12/2005 4:49 PM
1,2-Dichloroethane	BRL	5.0		µg/L	65243	1	12/12/2005 4:49 PM
Toluene	BRL	1.0		µg/L	65243	1	12/12/2005 4:49 PM
Ethylbenzene	BRL	1.0		µg/L	65243	1	12/12/2005 4:49 PM
m,p-Xylene	BRL	1.0		µg/L	65243	1	12/12/2005 4:49 PM
o-Xylene	BRL	1.0		µg/L	65243	1	12/12/2005 4:49 PM
Naphthalene	BRL	5.0		µg/L	65243	1	12/12/2005 4:49 PM
Surr: 4-Bromofluorobenzene	79.6	63.7-115		%REC	65243	1	12/12/2005 4:49 PM
Surr: Dibromofluoromethane	89.8	70.4-123		%REC	65243	1	12/12/2005 4:49 PM
Surr: Toluene-d8	91.0	73.4-115		%REC	65243	1	12/12/2005 4:49 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *16-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0512376-008

Client Sample ID: MW-25
Collection Date: 12/6/2005 12:45:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	65318	1	12/13/2005 4:02 AM
Surr: 4-Bromofluorobenzene	41.7	39.4-142		%REC	65318	1	12/13/2005 4:02 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	BRL	1.00		µg/L	65221	1	12/13/2005 3:23 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	65243	1	12/12/2005 5:14 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 5:14 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 5:14 PM
Isopropyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 5:14 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 5:14 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 5:14 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 5:14 PM
tert-Butyl formate	BRL	5.0	N	µg/L	65243	1	12/12/2005 5:14 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	65243	1	12/12/2005 5:14 PM
Benzene	BRL	1.0		µg/L	65243	1	12/12/2005 5:14 PM
1,2-Dichloroethane	BRL	5.0		µg/L	65243	1	12/12/2005 5:14 PM
Toluene	BRL	1.0		µg/L	65243	1	12/12/2005 5:14 PM
Ethylbenzene	BRL	1.0		µg/L	65243	1	12/12/2005 5:14 PM
m,p-Xylene	BRL	1.0		µg/L	65243	1	12/12/2005 5:14 PM
o-Xylene	BRL	1.0		µg/L	65243	1	12/12/2005 5:14 PM
Naphthalene	BRL	5.0		µg/L	65243	1	12/12/2005 5:14 PM
Surr: 4-Bromofluorobenzene	81.3	63.7-115		%REC	65243	1	12/12/2005 5:14 PM
Surr: Dibromofluoromethane	93.3	70.4-123		%REC	65243	1	12/12/2005 5:14 PM
Surr: Toluene-d8	92.8	73.4-115		%REC	65243	1	12/12/2005 5:14 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *16-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0512376-009

Client Sample ID: MW-26
Collection Date: 12/7/2005 11:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	65319	1	12/13/2005 7:51 AM
Surr: 4-Bromofluorobenzene	41.1	39.4-142		%REC	65319	1	12/13/2005 7:51 AM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	BRL	4.0		µg/L	65425	1	12/14/2005 3:46 PM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	0.25	0.25		mg/L		1	12/8/2005 2:46 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	26	1.0		mg/L		1	12/8/2005 2:46 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	6.52	1.00		µg/L	65221	1	12/13/2005 3:28 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	BRL	100		µg/L	65198	1	12/13/2005 8:49 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	65243	1	12/12/2005 5:39 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 5:39 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 5:39 PM
Isopropyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 5:39 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 5:39 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 5:39 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 5:39 PM
tert-Butyl formate	BRL	5.0	N	µg/L	65243	1	12/12/2005 5:39 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	65243	1	12/12/2005 5:39 PM
Benzene	BRL	1.0		µg/L	65243	1	12/12/2005 5:39 PM
1,2-Dichloroethane	BRL	5.0		µg/L	65243	1	12/12/2005 5:39 PM
Toluene	BRL	1.0		µg/L	65243	1	12/12/2005 5:39 PM
Ethylbenzene	BRL	1.0		µg/L	65243	1	12/12/2005 5:39 PM
m,p-Xylene	BRL	1.0		µg/L	65243	1	12/12/2005 5:39 PM
o-Xylene	BRL	1.0		µg/L	65243	1	12/12/2005 5:39 PM
Naphthalene	BRL	5.0		µg/L	65243	1	12/12/2005 5:39 PM
Surr: 4-Bromofluorobenzene	81.1	63.7-115		%REC	65243	1	12/12/2005 5:39 PM
Surr: Dibromofluoromethane	96.2	70.4-123		%REC	65243	1	12/12/2005 5:39 PM
Surr: Toluene-d8	94.0	73.4-115		%REC	65243	1	12/12/2005 5:39 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *16-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0512376-010

Client Sample ID: MW-29
Collection Date: 12/7/2005 9:30:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	179	39.4		µg/L	65319	2000	12/13/2005 12:06 PM
Surr: 4-Bromofluorobenzene	0	39.4-142	S	%REC	65319	1	12/13/2005 8:14 AM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	7.4	4.0		µg/L	65425	1	12/14/2005 3:57 PM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	BRL	0.25		mg/L		1	12/8/2005 3:00 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	BRL	1.0		mg/L		1	12/8/2005 3:00 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	30.4	1.00		µg/L	65221	1	12/13/2005 3:34 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	BRL	100		µg/L	65198	1	12/13/2005 9:15 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	250	N	µg/L	65243	10	12/9/2005 2:16 PM
Ethyl tert-butyl alcohol	2600	50	N	µg/L	65243	10	12/9/2005 2:16 PM
Ethyl tert-butyl ether	BRL	50	N	µg/L	65243	10	12/9/2005 2:16 PM
Isopropyl ether	2900	50	N	µg/L	65243	10	12/9/2005 2:16 PM
tert-Amyl alcohol	BRL	50	N	µg/L	65243	10	12/9/2005 2:16 PM
tert-Amyl methyl ether	BRL	50	N	µg/L	65243	10	12/9/2005 2:16 PM
tert-Butyl Alcohol	860	50	N	µg/L	65243	10	12/9/2005 2:16 PM
tert-Butyl formate	BRL	50	N	µg/L	65243	10	12/9/2005 2:16 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	10		µg/L	65243	10	12/9/2005 2:16 PM
Benzene	13000	100		µg/L	65243	100	12/12/2005 2:41 PM
1,2-Dichloroethane	380	50		µg/L	65243	10	12/9/2005 2:16 PM
Toluene	16000	100		µg/L	65243	100	12/12/2005 2:41 PM
Ethylbenzene	1000	10		µg/L	65243	10	12/9/2005 2:16 PM
m,p-Xylene	3700	100		µg/L	65243	100	12/12/2005 2:41 PM
o-Xylene	1700	10		µg/L	65243	10	12/9/2005 2:16 PM
Naphthalene	430	50		µg/L	65243	10	12/9/2005 2:16 PM
Surr: 4-Bromofluorobenzene	89.5	63.7-115		%REC	65243	100	12/12/2005 2:41 PM
Surr: 4-Bromofluorobenzene	91.0	63.7-115		%REC	65243	10	12/9/2005 2:16 PM
Surr: Dibromofluoromethane	74.7	70.4-123		%REC	65243	10	12/9/2005 2:16 PM
Surr: Dibromofluoromethane	80.7	70.4-123		%REC	65243	100	12/12/2005 2:41 PM
Surr: Toluene-d8	91.5	73.4-115		%REC	65243	100	12/12/2005 2:41 PM
Surr: Toluene-d8	95.4	73.4-115		%REC	65243	10	12/9/2005 2:16 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *16-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0512376-011

Client Sample ID: MW-32
Collection Date: 12/7/2005 9:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	578	101		µg/L	65319	5000	12/13/2005 2:35 PM
Surr: 4-Bromofluorobenzene	49.0	39.4-142		%REC	65319	1	12/13/2005 8:37 AM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	13	4.0		µg/L	65425	1	12/14/2005 4:06 PM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	BRL	0.25		mg/L		1	12/8/2005 4:27 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	13	1.0		mg/L		1	12/8/2005 4:27 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	164	1.00		µg/L	65221	1	12/13/2005 3:50 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	2010	100		µg/L	65198	1	12/14/2005 2:46 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	12000	N	µg/L	65243	500	12/9/2005 1:26 PM
Ethyl tert-butyl alcohol	BRL	2500	N	µg/L	65243	500	12/9/2005 1:26 PM
Ethyl tert-butyl ether	BRL	2500	N	µg/L	65243	500	12/9/2005 1:26 PM
Isopropyl ether	11000	2500	N	µg/L	65243	500	12/9/2005 1:26 PM
tert-Amyl alcohol	BRL	2500	N	µg/L	65243	500	12/9/2005 1:26 PM
tert-Amyl methyl ether	BRL	2500	N	µg/L	65243	500	12/9/2005 1:26 PM
tert-Butyl Alcohol	BRL	2500	N	µg/L	65243	500	12/9/2005 1:26 PM
tert-Butyl formate	BRL	2500	N	µg/L	65243	500	12/9/2005 1:26 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	500		µg/L	65243	500	12/9/2005 1:26 PM
Benzene	36000	500		µg/L	65243	500	12/9/2005 1:26 PM
1,2-Dichloroethane	BRL	2500		µg/L	65243	500	12/9/2005 1:26 PM
Toluene	52000	500		µg/L	65243	500	12/9/2005 1:26 PM
Ethylbenzene	3200	500		µg/L	65243	500	12/9/2005 1:26 PM
m,p-Xylene	13000	500		µg/L	65243	500	12/9/2005 1:26 PM
o-Xylene	5600	500		µg/L	65243	500	12/9/2005 1:26 PM
Naphthalene	2900	2500		µg/L	65243	500	12/9/2005 1:26 PM
Surr: 4-Bromofluorobenzene	93.1	63.7-115		%REC	65243	500	12/9/2005 1:26 PM
Surr: Dibromofluoromethane	81.6	70.4-123		%REC	65243	500	12/9/2005 1:26 PM
Surr: Toluene-d8	88.4	73.4-115		%REC	65243	500	12/9/2005 1:26 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *16-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0512376-012

Client Sample ID: MW-15R
Collection Date: 12/7/2005 10:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	0.048	0.020		µg/L	65319	1	12/13/2005 2:58 PM
Surr: 4-Bromofluorobenzene	44.8	39.4-142		%REC	65319	1	12/13/2005 2:58 PM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	BRL	4.0		µg/L	65425	1	12/14/2005 4:16 PM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	BRL	0.25		mg/L		1	12/8/2005 3:15 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	25	1.0		mg/L		1	12/8/2005 3:15 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	84.0	1.00		µg/L	65221	1	12/13/2005 3:55 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	BRL	100		µg/L	65198	1	12/13/2005 9:26 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	65243	1	12/12/2005 6:04 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 6:04 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 6:04 PM
Isopropyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 6:04 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 6:04 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 6:04 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 6:04 PM
tert-Butyl formate	BRL	5.0	N	µg/L	65243	1	12/12/2005 6:04 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	65243	1	12/12/2005 6:04 PM
Benzene	3.2	1.0		µg/L	65243	1	12/12/2005 6:04 PM
1,2-Dichloroethane	BRL	5.0		µg/L	65243	1	12/12/2005 6:04 PM
Toluene	BRL	1.0		µg/L	65243	1	12/12/2005 6:04 PM
Ethylbenzene	BRL	1.0		µg/L	65243	1	12/12/2005 6:04 PM
m,p-Xylene	BRL	1.0		µg/L	65243	1	12/12/2005 6:04 PM
o-Xylene	2.8	1.0		µg/L	65243	1	12/12/2005 6:04 PM
Naphthalene	BRL	5.0		µg/L	65243	1	12/12/2005 6:04 PM
Surr: 4-Bromofluorobenzene	78.3	63.7-115		%REC	65243	1	12/12/2005 6:04 PM
Surr: Dibromofluoromethane	92.7	70.4-123		%REC	65243	1	12/12/2005 6:04 PM
Surr: Toluene-d8	94.1	73.4-115		%REC	65243	1	12/12/2005 6:04 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *16-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0512376-013

Client Sample ID: MW-14R
Collection Date: 12/7/2005 12:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	65319	1	12/13/2005 9:23 AM
Surr: 4-Bromofluorobenzene	41.3	39.4-142		%REC	65319	1	12/13/2005 9:23 AM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	BRL	4.0		µg/L	65425	1	12/14/2005 4:25 PM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	BRL	0.25		mg/L		1	12/8/2005 3:30 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	24	1.0		mg/L		1	12/8/2005 3:30 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	51.8	1.00		µg/L	65221	1	12/13/2005 4:00 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	217	100		µg/L	65198	1	12/14/2005 2:52 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	65243	1	12/12/2005 6:29 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 6:29 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 6:29 PM
Isopropyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 6:29 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 6:29 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	65243	1	12/12/2005 6:29 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	65243	1	12/12/2005 6:29 PM
tert-Butyl formate	BRL	5.0	N	µg/L	65243	1	12/12/2005 6:29 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	65243	1	12/12/2005 6:29 PM
Benzene	BRL	1.0		µg/L	65243	1	12/12/2005 6:29 PM
1,2-Dichloroethane	BRL	5.0		µg/L	65243	1	12/12/2005 6:29 PM
Toluene	BRL	1.0		µg/L	65243	1	12/12/2005 6:29 PM
Ethylbenzene	BRL	1.0		µg/L	65243	1	12/12/2005 6:29 PM
m,p-Xylene	BRL	1.0		µg/L	65243	1	12/12/2005 6:29 PM
o-Xylene	BRL	1.0		µg/L	65243	1	12/12/2005 6:29 PM
Naphthalene	BRL	5.0		µg/L	65243	1	12/12/2005 6:29 PM
Surr: 4-Bromofluorobenzene	79.1	63.7-115		%REC	65243	1	12/12/2005 6:29 PM
Surr: Dibromofluoromethane	95.1	70.4-123		%REC	65243	1	12/12/2005 6:29 PM
Surr: Toluene-d8	92.9	73.4-115		%REC	65243	1	12/12/2005 6:29 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *16-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0512376-014

Client Sample ID: TRIPBLANK1
Collection Date: 12/6/2005
Matrix: TRIP BLANK

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	65243	1	12/9/2005 11:21 AM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	65243	1	12/9/2005 11:21 AM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65243	1	12/9/2005 11:21 AM
Isopropyl ether	BRL	5.0	N	µg/L	65243	1	12/9/2005 11:21 AM
tert-Amyl alcohol	BRL	5.0	N	µg/L	65243	1	12/9/2005 11:21 AM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	65243	1	12/9/2005 11:21 AM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	65243	1	12/9/2005 11:21 AM
tert-Butyl formate	BRL	5.0	N	µg/L	65243	1	12/9/2005 11:21 AM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	65243	1	12/9/2005 11:21 AM
Benzene	BRL	1.0		µg/L	65243	1	12/9/2005 11:21 AM
1,2-Dichloroethane	BRL	5.0		µg/L	65243	1	12/9/2005 11:21 AM
Toluene	BRL	1.0		µg/L	65243	1	12/9/2005 11:21 AM
Ethylbenzene	BRL	1.0		µg/L	65243	1	12/9/2005 11:21 AM
m,p-Xylene	BRL	1.0		µg/L	65243	1	12/9/2005 11:21 AM
o-Xylene	BRL	1.0		µg/L	65243	1	12/9/2005 11:21 AM
Naphthalene	BRL	5.0		µg/L	65243	1	12/9/2005 11:21 AM
Surr: 4-Bromofluorobenzene	78.7	63.7-115		%REC	65243	1	12/9/2005 11:21 AM
Surr: Dibromofluoromethane	98.7	70.4-123		%REC	65243	1	12/9/2005 11:21 AM
Surr: Toluene-d8	98.6	73.4-115		%REC	65243	1	12/9/2005 11:21 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *16-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0512376-015

Client Sample ID: TRIP BLANK 2
Collection Date: 12/6/2005
Matrix: TRIP BLANK

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	65243	1	12/9/2005 10:56 AM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	65243	1	12/9/2005 10:56 AM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65243	1	12/9/2005 10:56 AM
Isopropyl ether	BRL	5.0	N	µg/L	65243	1	12/9/2005 10:56 AM
tert-Amyl alcohol	BRL	5.0	N	µg/L	65243	1	12/9/2005 10:56 AM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	65243	1	12/9/2005 10:56 AM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	65243	1	12/9/2005 10:56 AM
tert-Butyl formate	BRL	5.0	N	µg/L	65243	1	12/9/2005 10:56 AM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	65243	1	12/9/2005 10:56 AM
Benzene	BRL	1.0		µg/L	65243	1	12/9/2005 10:56 AM
1,2-Dichloroethane	BRL	5.0		µg/L	65243	1	12/9/2005 10:56 AM
Toluene	BRL	1.0		µg/L	65243	1	12/9/2005 10:56 AM
Ethylbenzene	BRL	1.0		µg/L	65243	1	12/9/2005 10:56 AM
m,p-Xylene	BRL	1.0		µg/L	65243	1	12/9/2005 10:56 AM
o-Xylene	BRL	1.0		µg/L	65243	1	12/9/2005 10:56 AM
Naphthalene	BRL	5.0		µg/L	65243	1	12/9/2005 10:56 AM
Surr: 4-Bromofluorobenzene	79.1	63.7-115		%REC	65243	1	12/9/2005 10:56 AM
Surr: Dibromofluoromethane	88.4	70.4-123		%REC	65243	1	12/9/2005 10:56 AM
Surr: Toluene-d8	94.6	73.4-115		%REC	65243	1	12/9/2005 10:56 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

16-Dec-05

Lab Order: 0512376
Client: Consultech Environmental, Inc.
Project: Souther's Grocery

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0512376-001A	RW-1	12/6/2005 11:30:00 AM	Groundwater	Oxygenates by GC/MS		12/9/2005	12/9/2005
				Volatile Organic Compounds by GC/MS		12/9/2005	12/9/2005
0512376-001B				MICRO-EXTRACTABLE VOCs		12/12/2005	12/13/2005
				MICRO-EXTRACTABLE VOCs		12/12/2005	12/13/2005
0512376-001C				Total Metals by ICP/MS		12/9/2005	12/13/2005
0512376-002A	PW-1	12/6/2005 11:45:00 AM		Oxygenates by GC/MS		12/9/2005	12/9/2005
				Volatile Organic Compounds by GC/MS		12/9/2005	12/9/2005
0512376-002B				MICRO-EXTRACTABLE VOCs		12/12/2005	12/13/2005
0512376-002C				Total Metals by ICP/MS		12/9/2005	12/13/2005
0512376-003A	PW-2	12/6/2005 11:00:00 AM		Oxygenates by GC/MS		12/9/2005	12/12/2005
				Volatile Organic Compounds by GC/MS		12/9/2005	12/12/2005
0512376-003B				MICRO-EXTRACTABLE VOCs		12/12/2005	12/13/2005
0512376-003C				Total Metals by ICP/MS		12/9/2005	12/13/2005
0512376-004A	MW-12	12/6/2005 1:00:00 PM		Oxygenates by GC/MS		12/9/2005	12/12/2005
				Volatile Organic Compounds by GC/MS		12/9/2005	12/12/2005
0512376-004B				MICRO-EXTRACTABLE VOCs		12/12/2005	12/13/2005
0512376-004C				Total Metals by ICP/MS		12/9/2005	12/13/2005
0512376-005A	MW-16	12/6/2005 12:15:00 PM		Oxygenates by GC/MS		12/9/2005	12/12/2005
				Volatile Organic Compounds by GC/MS		12/9/2005	12/12/2005
0512376-005B				MICRO-EXTRACTABLE VOCs		12/12/2005	12/13/2005
0512376-005C				Total Metals by ICP/MS		12/9/2005	12/13/2005
0512376-006A	MW-23	12/6/2005 12:00:00 PM		Oxygenates by GC/MS		12/9/2005	12/9/2005
				Volatile Organic Compounds by GC/MS		12/9/2005	12/9/2005
0512376-006B				MICRO-EXTRACTABLE VOCs		12/12/2005	12/13/2005
0512376-006C				Total Metals by ICP/MS		12/9/2005	12/13/2005
0512376-007A	MW-24	12/6/2005 12:30:00 PM		Oxygenates by GC/MS		12/9/2005	12/12/2005
				Volatile Organic Compounds by GC/MS		12/9/2005	12/12/2005
0512376-007B				MICRO-EXTRACTABLE VOCs		12/12/2005	12/13/2005

Lab Order: 0512376
Client: Consultech Environmental, Inc.
Project: Souther's Grocery

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0512376-007C	MW-24	12/6/2005 12:30:00 PM	Groundwater	Total Metals by ICP/MS		12/9/2005	12/13/2005
0512376-008A	MW-25	12/6/2005 12:45:00 PM		Oxygenates by GC/MS		12/9/2005	12/12/2005
				Volatile Organic Compounds by GC/MS		12/9/2005	12/12/2005
0512376-008B				MICRO-EXTRACTABLE VOCs		12/12/2005	12/13/2005
0512376-008C				Total Metals by ICP/MS		12/9/2005	12/13/2005
0512376-009A	MW-26	12/7/2005 11:00:00 AM		Oxygenates by GC/MS		12/9/2005	12/12/2005
				Volatile Organic Compounds by GC/MS		12/9/2005	12/12/2005
0512376-009B				GC Analysis of Gaseous Samples		12/14/2005	12/14/2005
0512376-009C				MICRO-EXTRACTABLE VOCs		12/12/2005	12/13/2005
0512376-009D				Total Metals by ICP/MS		12/9/2005	12/13/2005
0512376-009E				Dissolved Metals by ICP/MS		12/8/2005	12/13/2005
0512376-009F				ION SCAN			12/8/2005
				ION SCAN			12/8/2005
0512376-010A	MW-29	12/7/2005 9:30:00 AM		Oxygenates by GC/MS		12/9/2005	12/9/2005
				Oxygenates by GC/MS		12/9/2005	12/12/2005
				Volatile Organic Compounds by GC/MS		12/9/2005	12/9/2005
				Volatile Organic Compounds by GC/MS		12/9/2005	12/12/2005
0512376-010B				GC Analysis of Gaseous Samples		12/14/2005	12/14/2005
0512376-010C				MICRO-EXTRACTABLE VOCs		12/12/2005	12/13/2005
				MICRO-EXTRACTABLE VOCs		12/12/2005	12/13/2005
0512376-010D				Total Metals by ICP/MS		12/9/2005	12/13/2005
0512376-010E				Dissolved Metals by ICP/MS		12/8/2005	12/13/2005
0512376-010F				ION SCAN			12/8/2005
				ION SCAN			12/8/2005
0512376-011A	MW-32	12/7/2005 9:00:00 AM		Oxygenates by GC/MS		12/9/2005	12/9/2005
				Volatile Organic Compounds by GC/MS		12/9/2005	12/9/2005
0512376-011B				GC Analysis of Gaseous Samples		12/14/2005	12/14/2005
0512376-011C				MICRO-EXTRACTABLE VOCs		12/12/2005	12/13/2005

Lab Order: 0512376
Client: Consultech Environmental, Inc.
Project: Souther's Grocery

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0512376-011C	MW-32	12/7/2005 9:00:00 AM	Groundwater	MICRO-EXTRACTABLE VOCs		12/12/2005	12/13/2005
0512376-011D				Total Metals by ICP/MS		12/9/2005	12/13/2005
0512376-011E				Dissolved Metals by ICP/MS		12/8/2005	12/14/2005
				Dissolved Metals by ICP/MS		12/8/2005	12/13/2005
				Dissolved Metals by ICP/MS		12/8/2005	12/14/2005
0512376-011F				ION SCAN			12/8/2005
				ION SCAN			12/8/2005
0512376-012A	MW-15R	12/7/2005 10:00:00 AM		Oxygenates by GC/MS		12/9/2005	12/12/2005
				Volatile Organic Compounds by GC/MS		12/9/2005	12/12/2005
0512376-012B				GC Analysis of Gaseous Samples		12/14/2005	12/14/2005
0512376-012C				MICRO-EXTRACTABLE VOCs		12/12/2005	12/13/2005
0512376-012D				Total Metals by ICP/MS		12/9/2005	12/13/2005
0512376-012E				Dissolved Metals by ICP/MS		12/8/2005	12/13/2005
0512376-012F				ION SCAN			12/8/2005
				ION SCAN			12/8/2005
0512376-013A	MW-14R	12/7/2005 12:00:00 PM		Oxygenates by GC/MS		12/9/2005	12/12/2005
				Volatile Organic Compounds by GC/MS		12/9/2005	12/12/2005
0512376-013B				GC Analysis of Gaseous Samples		12/14/2005	12/14/2005
0512376-013C				MICRO-EXTRACTABLE VOCs		12/12/2005	12/13/2005
0512376-013D				Total Metals by ICP/MS		12/9/2005	12/13/2005
0512376-013E				Dissolved Metals by ICP/MS		12/8/2005	12/14/2005
				Dissolved Metals by ICP/MS		12/8/2005	12/13/2005
				Dissolved Metals by ICP/MS		12/8/2005	12/14/2005
0512376-013F				ION SCAN			12/8/2005
				ION SCAN			12/8/2005
0512376-014A	TRIPBLANK1	12/6/2005	Trip Blank	Oxygenates by GC/MS		12/9/2005	12/9/2005
				Volatile Organic Compounds by GC/MS		12/9/2005	12/9/2005
0512376-015A	TRIP BLANK 2			Oxygenates by GC/MS		12/9/2005	12/9/2005

Lab Order: 0512376
Client: Consultech Environmental, Inc.
Project: Souther's Grocery

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0512376-015A	TRIP BLANK 2	12/6/2005	Trip Blank	Volatile Organic Compounds by GC/MS		12/9/2005	12/9/2005

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W

Sample ID: **MB-65221** SampType: **MBLK** TestCode: **6020_W** Units: **µg/L** Prep Date: **12/9/2005** RunNo: **76179**
Client ID: Batch ID: **65221** TestNo: **SW6020** Analysis Date: **12/13/2005** SeqNo: **1506942**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	BRL	1.00									

Sample ID: **LCS-65221** SampType: **LCS** TestCode: **6020_W** Units: **µg/L** Prep Date: **12/9/2005** RunNo: **76179**
Client ID: Batch ID: **65221** TestNo: **SW6020** Analysis Date: **12/13/2005** SeqNo: **1506941**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	104.2	1.00	100	0	104	85	115	0	0		

Sample ID: **0512307-005AMS** SampType: **MS** TestCode: **6020_W** Units: **µg/L** Prep Date: **12/9/2005** RunNo: **76179**
Client ID: Batch ID: **65221** TestNo: **SW6020** Analysis Date: **12/13/2005** SeqNo: **1506945**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	109.5	1.00	100	5.922	104	70	130	0	0		

Sample ID: **0512307-005AMSD** SampType: **MSD** TestCode: **6020_W** Units: **µg/L** Prep Date: **12/9/2005** RunNo: **76179**
Client ID: Batch ID: **65221** TestNo: **SW6020** Analysis Date: **12/13/2005** SeqNo: **1506947**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	112.7	1.00	100	5.922	107	70	130	109.5	2.88	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 6020_W_D

Sample ID: **MB-65198** SampType: **MBLK** TestCode: **6020_W_D** Units: **µg/L** Prep Date: **12/8/2005** RunNo: **76196**
Client ID: Batch ID: **65198** TestNo: **SW6020** Analysis Date: **12/13/2005** SeqNo: **1507278**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	BRL	100									

Sample ID: **LCS-65198** SampType: **LCS** TestCode: **6020_W_D** Units: **µg/L** Prep Date: **12/8/2005** RunNo: **76196**
Client ID: Batch ID: **65198** TestNo: **SW6020** Analysis Date: **12/13/2005** SeqNo: **1507277**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	1098	100	1000	38.03	106	85	115	0	0		

Sample ID: **0512376-009EMS** SampType: **MS** TestCode: **6020_W_D** Units: **µg/L** Prep Date: **12/8/2005** RunNo: **76196**
Client ID: **MW-26** Batch ID: **65198** TestNo: **SW6020** Analysis Date: **12/13/2005** SeqNo: **1507280**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	1098	100	1000	58.13	104	70	130	0	0		

Sample ID: **0512376-009EMSD** SampType: **MSD** TestCode: **6020_W_D** Units: **µg/L** Prep Date: **12/8/2005** RunNo: **76196**
Client ID: **MW-26** Batch ID: **65198** TestNo: **SW6020** Analysis Date: **12/13/2005** SeqNo: **1507283**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	1112	100	1000	58.13	105	70	130	1098	1.27	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8011_W

Sample ID: **MB-65318** SampType: **MBLK** TestCode: **8011_W** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76121**
Client ID: Batch ID: **65318** TestNo: **SW8011** Analysis Date: **12/12/2005** SeqNo: **1505854**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	BRL	0.0200									
Surr: 4-Bromofluorobenzene	2.129	0.0500	5	0	42.6	39.4	142	0	0		

Sample ID: **MB-65319** SampType: **MBLK** TestCode: **8011_W** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76121**
Client ID: Batch ID: **65319** TestNo: **SW8011** Analysis Date: **12/13/2005** SeqNo: **1505915**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	BRL	0.0200									
Surr: 4-Bromofluorobenzene	2.123	0.0500	5	0	42.5	39.4	142	0	0		

Sample ID: **LCS-65318** SampType: **LCS** TestCode: **8011_W** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76121**
Client ID: Batch ID: **65318** TestNo: **SW8011** Analysis Date: **12/12/2005** SeqNo: **1505856**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.06	0.0200	0.1	0	60	55.1	139	0	0		
Surr: 4-Bromofluorobenzene	2.028	0.0500	5	0	40.6	39.4	142	0	0		

Sample ID: **LCS-65319** SampType: **LCS** TestCode: **8011_W** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76121**
Client ID: Batch ID: **65319** TestNo: **SW8011** Analysis Date: **12/13/2005** SeqNo: **1505917**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.058	0.0200	0.1	0	58	55.1	139	0	0		
Surr: 4-Bromofluorobenzene	2.031	0.0500	5	0	40.6	39.4	142	0	0		

Sample ID: **LCSD-65318** SampType: **LCSD** TestCode: **8011_W** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76121**
Client ID: Batch ID: **65318** TestNo: **SW8011** Analysis Date: **12/12/2005** SeqNo: **1505857**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.059	0.0200	0.1	0	59	55.1	139	0.06	1.68	18.5	
Surr: 4-Bromofluorobenzene	2.002	0.0500	5	0	40	39.4	142	2.028	0	0	

Qualifiers:
B Analyte detected in the associated Method Blank
BRL Below Reporting Limit
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
N Analyte not NELAC certified
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8011_W

Sample ID: **LCSD-65319**	SampType: **LCSD**	TestCode: **8011_W**	Units: **µg/L**	Prep Date: **12/12/2005**	RunNo: **76121**
Client ID:	Batch ID: **65319**	TestNo: **SW8011**		Analysis Date: **12/13/2005**	SeqNo: **1505919**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.061	0.0200	0.1	0	61	55.1	139	0.058	5.04	18.5	
Surr: 4-Bromofluorobenzene	2.456	0.0500	5	0	49.1	39.4	142	2.031	0	0	

Sample ID: **0512353-001BMS**	SampType: **MS**	TestCode: **8011_W**	Units: **µg/L**	Prep Date: **12/12/2005**	RunNo: **76121**
Client ID:	Batch ID: **65318**	TestNo: **SW8011**		Analysis Date: **12/12/2005**	SeqNo: **1505859**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.139	0.0200	0.1	0	139	40.7	148	0	0		
Surr: 4-Bromofluorobenzene	2.153	0.0500	5	0	43.1	39.4	142	0	0		

Sample ID: **0512520-002BMS**	SampType: **MS**	TestCode: **8011_W**	Units: **µg/L**	Prep Date: **12/12/2005**	RunNo: **76121**
Client ID:	Batch ID: **65319**	TestNo: **SW8011**		Analysis Date: **12/13/2005**	SeqNo: **1505926**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.058	0.0200	0.1	0	58	40.7	148	0	0		
Surr: 4-Bromofluorobenzene	2.41	0.0500	5	0	48.2	39.4	142	0	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_OXY_W

Sample ID: **MB-65243** SampType: **MBLK** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **12/9/2005** RunNo: **76066**
Client ID: Batch ID: **65243** TestNo: **SW8260B** Analysis Date: **12/9/2005** SeqNo: **1504854**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	BRL	25									
Ethyl tert-butyl alcohol	BRL	5.0									
Ethyl tert-butyl ether	BRL	5.0									
Isopropyl ether	BRL	5.0									
tert-Amyl alcohol	BRL	5.0									
tert-Amyl methyl ether	BRL	5.0									
tert-Butyl Alcohol	BRL	5.0									
tert-Butyl formate	BRL	5.0									

Sample ID: **MB-65359** SampType: **MBLK** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76161**
Client ID: Batch ID: **65359** TestNo: **SW8260B** Analysis Date: **12/12/2005** SeqNo: **1506775**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	BRL	25	0	0	0	0	0	0	0		
Ethyl tert-butyl alcohol	BRL	5.0	0	0	0	0	0	0	0		
Ethyl tert-butyl ether	BRL	5.0	0	0	0	0	0	0	0		
Isopropyl ether	BRL	5.0	0	0	0	0	0	0	0		
tert-Amyl alcohol	BRL	5.0	0	0	0	0	0	0	0		
tert-Amyl methyl ether	BRL	5.0	0	0	0	0	0	0	0		
tert-Butyl Alcohol	BRL	5.0	0	0	0	0	0	0	0		
tert-Butyl formate	BRL	5.0	0	0	0	0	0	0	0		

Sample ID: **MB-65359** SampType: **MBLK** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76200**
Client ID: Batch ID: **65359** TestNo: **SW8260B** Analysis Date: **12/13/2005** SeqNo: **1507498**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethyl tert-butyl ether	BRL	5.0									
Isopropyl ether	BRL	5.0									
tert-Amyl methyl ether	BRL	5.0									
tert-Butyl Alcohol	BRL	5.0									

Qualifiers:
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- BRL Below Reporting Limit
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_OXY_W

Sample ID: **LCS-65243** SampType: **LCS** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **12/9/2005** RunNo: **76066**
Client ID: Batch ID: **65243** TestNo: **SW8260B** Analysis Date: **12/9/2005** SeqNo: **1504856**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	199.4	25	250	0	79.8	50	150	0	0		
Ethyl tert-butyl alcohol	225.5	5.0	250	0	90.2	50	150	0	0		
Ethyl tert-butyl ether	55.56	5.0	50	0	111	50	150	0	0		
Isopropyl ether	55.69	5.0	50	0	111	50	150	0	0		
tert-Amyl alcohol	256.7	5.0	250	0	103	50	150	0	0		
tert-Amyl methyl ether	56.21	5.0	50	0	112	50	150	0	0		
tert-Butyl Alcohol	213.9	5.0	250	0	85.6	50	150	0	0		
tert-Butyl formate	293.2	5.0	250	0	117	50	150	0	0		

Sample ID: **LCS-65359** SampType: **LCS** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76161**
Client ID: Batch ID: **65359** TestNo: **SW8260B** Analysis Date: **12/12/2005** SeqNo: **1506776**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	156.8	25	250	0	62.7	50	150	0	0		
Ethyl tert-butyl alcohol	226	5.0	250	0	90.4	50	150	0	0		
Ethyl tert-butyl ether	63.05	5.0	50	0	126	50	150	0	0		
Isopropyl ether	59.25	5.0	50	0	118	50	150	0	0		
tert-Amyl alcohol	234.4	5.0	250	0	93.8	50	150	0	0		
tert-Amyl methyl ether	60.04	5.0	50	0	120	50	150	0	0		
tert-Butyl Alcohol	229.2	5.0	250	0	91.7	50	150	0	0		
tert-Butyl formate	292.6	5.0	250	0	117	50	150	0	0		

Sample ID: **LCS-65359** SampType: **LCS** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76200**
Client ID: Batch ID: **65359** TestNo: **SW8260B** Analysis Date: **12/13/2005** SeqNo: **1507500**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethyl tert-butyl ether	62.12	5.0	50	0	124	50	150	0	0		
Isopropyl ether	61.15	5.0	50	0	122	50	150	0	0		
tert-Amyl methyl ether	57.54	5.0	50	0	115	50	150	0	0		
tert-Butyl Alcohol	281.5	5.0	250	0	113	50	150	0	0		

Qualifiers:
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_OXY_W

Sample ID: **0512376-006AMS** SampType: **MS** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **12/9/2005** RunNo: **76066**
Client ID: **MW-23** Batch ID: **65243** TestNo: **SW8260B** Analysis Date: **12/9/2005** SeqNo: **1504879**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	332.4	25	250	0	133	50	150	0	0		
Ethyl tert-butyl alcohol	247.9	5.0	250	0	99.1	50	150	0	0		
Ethyl tert-butyl ether	65.27	5.0	50	0	131	50	150	0	0		
Isopropyl ether	64.28	5.0	50	0	129	50	150	0	0		
tert-Amyl alcohol	340.8	5.0	250	0	136	50	150	0	0		
tert-Amyl methyl ether	63.92	5.0	50	0	128	50	150	0	0		
tert-Butyl Alcohol	451.1	5.0	250	0	180	50	150	0	0		S
tert-Butyl formate	5.96	5.0	250	0	2.38	50	150	0	0		S

Sample ID: **0512616-001AMS** SampType: **MS** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76200**
Client ID: Batch ID: **65359** TestNo: **SW8260B** Analysis Date: **12/13/2005** SeqNo: **1507505**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethyl tert-butyl ether	61.82	5.0	50	0	124	50	150	0	0		
Isopropyl ether	60.16	5.0	50	0	120	50	150	0	0		
tert-Amyl methyl ether	59.2	5.0	50	0	118	50	150	0	0		
tert-Butyl Alcohol	232.4	5.0	250	0	93	50	150	0	0		

Sample ID: **0512376-006AMSD** SampType: **MSD** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **12/9/2005** RunNo: **76066**
Client ID: **MW-23** Batch ID: **65243** TestNo: **SW8260B** Analysis Date: **12/9/2005** SeqNo: **1504880**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethanol	156.4	25	250	0	62.6	50	150	332.4	72.0	40	R
Ethyl tert-butyl alcohol	258.3	5.0	250	0	103	50	150	247.9	4.14	40	
Ethyl tert-butyl ether	64.01	5.0	50	0	128	50	150	65.27	1.95	40	
Isopropyl ether	63.86	5.0	50	0	128	50	150	64.28	0.656	40	
tert-Amyl alcohol	312.6	5.0	250	0	125	50	150	340.8	8.64	40	
tert-Amyl methyl ether	62.44	5.0	50	0	125	50	150	63.92	2.34	40	
tert-Butyl Alcohol	432.2	5.0	250	0	173	50	150	451.1	4.27	40	S
tert-Butyl formate	5.66	5.0	250	0	2.26	50	150	5.96	5.16	40	S

Qualifiers:
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_OXY_W

Sample ID: **0512616-001AMSD** SampType: **MSD** TestCode: **8260B_OXY_** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76200**
Client ID: Batch ID: **65359** TestNo: **SW8260B** Analysis Date: **12/13/2005** SeqNo: **1507506**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethyl tert-butyl ether	64.17	5.0	50	0	128	50	150	61.82	3.73	40	
Isopropyl ether	61.33	5.0	50	0	123	50	150	60.16	1.93	40	
tert-Amyl methyl ether	58.33	5.0	50	0	117	50	150	59.2	1.48	40	
tert-Butyl Alcohol	271.8	5.0	250	0	109	50	150	232.4	15.6	40	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID: **MB-65243** SampType: **MBLK** TestCode: **8260B_W** Units: **µg/L** Prep Date: **12/9/2005** RunNo: **76066**
Client ID: Batch ID: **65243** TestNo: **SW8260B** Analysis Date: **12/9/2005** SeqNo: **1504485**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	BRL	5.0									
Benzene	BRL	5.0									
Ethylbenzene	BRL	5.0									
m,p-Xylene	BRL	10									
Methyl tert-butyl ether	BRL	5.0									
Naphthalene	BRL	5.0									
o-Xylene	BRL	5.0									
Toluene	BRL	5.0									
Surr: 4-Bromofluorobenzene	36.48	5.0	50	0	73	63.7	115	0	0		
Surr: Dibromofluoromethane	45.25	5.0	50	0	90.5	70.4	123	0	0		
Surr: Toluene-d8	45.28	5.0	50	0	90.6	73.4	115	0	0		

Sample ID: **MB-65359** SampType: **MBLK** TestCode: **8260B_W** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76161**
Client ID: Batch ID: **65359** TestNo: **SW8260B** Analysis Date: **12/12/2005** SeqNo: **1506599**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0		
1,1,1-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0		
1,1,2,2-Tetrachloroethane	BRL	5.0	0	0	0	0	0	0	0		
1,1,2-Trichloroethane	BRL	5.0	0	0	0	0	0	0	0		
1,1-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0		
1,1-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0		
1,1-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0		
1,2,3-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0		
1,2,3-Trichloropropane	BRL	5.0	0	0	0	0	0	0	0		
1,2,4-Trichlorobenzene	BRL	5.0	0	0	0	0	0	0	0		
1,2,4-Trimethylbenzene	BRL	5.0	0	0	0	0	0	0	0		
1,2-Dibromo-3-chloropropane	BRL	5.0	0	0	0	0	0	0	0		
1,2-Dibromoethane	BRL	5.0	0	0	0	0	0	0	0		
1,2-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0		

Qualifiers:
B Analyte detected in the associated Method Blank
BRL Below Reporting Limit
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
N Analyte not NELAC certified
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID: **MB-65359** SampType: **MBLK** TestCode: **8260B_W** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76161**
Client ID: Batch ID: **65359** TestNo: **SW8260B** Analysis Date: **12/12/2005** SeqNo: **1506599**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloroethane	BRL	5.0	0	0	0	0	0	0	0		
1,2-Dichloroethene, Total	BRL	5.0	0	0	0	0	0	0	0		
1,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0		
1,3,5-Trimethylbenzene	BRL	5.0	0	0	0	0	0	0	0		
1,3-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0		
1,3-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0		
1,4-Dichlorobenzene	BRL	5.0	0	0	0	0	0	0	0		
2,2-Dichloropropane	BRL	5.0	0	0	0	0	0	0	0		
2-Butanone	BRL	50	0	0	0	0	0	0	0		
2-Chloroethyl vinyl ether	BRL	5.0	0	0	0	0	0	0	0		
2-Chlorotoluene	BRL	5.0	0	0	0	0	0	0	0		
2-Hexanone	BRL	10	0	0	0	0	0	0	0		
4-Chlorotoluene	BRL	5.0	0	0	0	0	0	0	0		
4-Isopropyltoluene	BRL	5.0	0	0	0	0	0	0	0		
4-Methyl-2-pentanone	BRL	10	0	0	0	0	0	0	0		
Acetone	BRL	50	0	0	0	0	0	0	0		
Acrolein	BRL	20	0	0	0	0	0	0	0		
Acrylonitrile	BRL	5.0	0	0	0	0	0	0	0		
Benzene	BRL	5.0	0	0	0	0	0	0	0		
Bromobenzene	BRL	5.0	0	0	0	0	0	0	0		
Bromochloromethane	BRL	5.0	0	0	0	0	0	0	0		
Bromodichloromethane	BRL	5.0	0	0	0	0	0	0	0		
Bromoform	BRL	5.0	0	0	0	0	0	0	0		
Bromomethane	BRL	5.0	0	0	0	0	0	0	0		
Carbon disulfide	BRL	5.0	0	0	0	0	0	0	0		
Carbon tetrachloride	BRL	5.0	0	0	0	0	0	0	0		
Chlorobenzene	BRL	5.0	0	0	0	0	0	0	0		
Chloroethane	BRL	10	0	0	0	0	0	0	0		
Chloroform	BRL	5.0	0	0	0	0	0	0	0		
Chloromethane	BRL	10	0	0	0	0	0	0	0		
cis-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0		

Qualifiers:
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID: **MB-65359** SampType: **MBLK** TestCode: **8260B_W** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76161**
Client ID: Batch ID: **65359** TestNo: **SW8260B** Analysis Date: **12/12/2005** SeqNo: **1506599**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0		
Cyclohexane	BRL	5.0	0	0	0	0	0	0	0		
Dibromochloromethane	BRL	5.0	0	0	0	0	0	0	0		
Dibromomethane	BRL	5.0	0	0	0	0	0	0	0		
Dichlorodifluoromethane	BRL	10	0	0	0	0	0	0	0		
Ethylbenzene	BRL	5.0	0	0	0	0	0	0	0		
Freon-113	BRL	10	0	0	0	0	0	0	0		
Hexachlorobutadiene	BRL	5.0	0	0	0	0	0	0	0		
Iodomethane	BRL	10	0	0	0	0	0	0	0		
Isopropylbenzene	BRL	5.0	0	0	0	0	0	0	0		
m,p-Xylene	BRL	10	0	0	0	0	0	0	0		
Methyl acetate	BRL	5.0	0	0	0	0	0	0	0		
Methylcyclohexane	BRL	5.0	0	0	0	0	0	0	0		
Methylene chloride	BRL	5.0	0	0	0	0	0	0	0		
Naphthalene	BRL	5.0	0	0	0	0	0	0	0		
n-Butylbenzene	BRL	5.0	0	0	0	0	0	0	0		
n-Propylbenzene	BRL	5.0	0	0	0	0	0	0	0		
o-Xylene	BRL	5.0	0	0	0	0	0	0	0		
sec-Butylbenzene	BRL	5.0	0	0	0	0	0	0	0		
Styrene	BRL	5.0	0	0	0	0	0	0	0		
tert-Butylbenzene	BRL	5.0	0	0	0	0	0	0	0		
Tetrachloroethene	BRL	5.0	0	0	0	0	0	0	0		
Toluene	BRL	5.0	0	0	0	0	0	0	0		
trans-1,2-Dichloroethene	BRL	5.0	0	0	0	0	0	0	0		
trans-1,3-Dichloropropene	BRL	5.0	0	0	0	0	0	0	0		
trans-1,4-Dichloro-2-butene	BRL	10	0	0	0	0	0	0	0		
Trichloroethene	BRL	5.0	0	0	0	0	0	0	0		
Trichlorofluoromethane	BRL	5.0	0	0	0	0	0	0	0		
Vinyl acetate	BRL	10	0	0	0	0	0	0	0		
Vinyl chloride	BRL	2.0	0	0	0	0	0	0	0		
Xylenes, Total	BRL	5.0	0	0	0	0	0	0	0		

Qualifiers:
B Analyte detected in the associated Method Blank
BRL Below Reporting Limit
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
N Analyte not NELAC certified
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID: **MB-65359** SampType: **MBLK** TestCode: **8260B_W** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76161**
Client ID: Batch ID: **65359** TestNo: **SW8260B** Analysis Date: **12/12/2005** SeqNo: **1506599**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	38.21	5.0	50	0	76.4	63.7	115	0	0		
Surr: Dibromofluoromethane	45.46	5.0	50	0	90.9	70.4	123	0	0		
Surr: Toluene-d8	47.12	5.0	50	0	94.2	73.4	115	0	0		

Sample ID: **MB-65359** SampType: **MBLK** TestCode: **8260B_W** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76200**
Client ID: Batch ID: **65359** TestNo: **SW8260B** Analysis Date: **12/13/2005** SeqNo: **1507378**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	BRL	5.0									
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,1-Dichloropropene	BRL	5.0									
1,2,3-Trichlorobenzene	BRL	5.0									
1,2,3-Trichloropropane	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2,4-Trimethylbenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloroethene, Total	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3,5-Trimethylbenzene	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,3-Dichloropropane	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2,2-Dichloropropane	BRL	5.0									

Qualifiers:
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID: **MB-65359**	SampType: **MBLK**	TestCode: **8260B_W**	Units: **µg/L**	Prep Date: **12/12/2005**	RunNo: **76200**
Client ID:	Batch ID: **65359**	TestNo: **SW8260B**		Analysis Date: **12/13/2005**	SeqNo: **1507378**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Butanone	BRL	50									
2-Chloroethyl vinyl ether	BRL	5.0									
2-Chlorotoluene	BRL	5.0									
2-Hexanone	BRL	10									
4-Chlorotoluene	BRL	5.0									
4-Isopropyltoluene	BRL	5.0									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Acrolein	BRL	20									
Acrylonitrile	BRL	5.0									
Benzene	BRL	5.0									
Bromobenzene	BRL	5.0									
Bromochloromethane	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dibromomethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Hexachlorobutadiene	BRL	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID: **MB-65359** SampType: **MBLK** TestCode: **8260B_W** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76200**
Client ID: Batch ID: **65359** TestNo: **SW8260B** Analysis Date: **12/13/2005** SeqNo: **1507378**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iodomethane	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	10									
Methyl acetate	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
Naphthalene	BRL	5.0									
n-Butylbenzene	BRL	5.0									
n-Propylbenzene	BRL	5.0									
o-Xylene	BRL	5.0									
sec-Butylbenzene	BRL	5.0									
Styrene	BRL	5.0									
tert-Butylbenzene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
trans-1,4-Dichloro-2-butene	BRL	10									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl acetate	BRL	10									
Vinyl chloride	BRL	2.0									
Xylenes, Total	BRL	5.0									
Surr: 4-Bromofluorobenzene	37.68	5.0	50	0	75.4	63.7	115	0	0		
Surr: Dibromofluoromethane	46.11	5.0	50	0	92.2	70.4	123	0	0		
Surr: Toluene-d8	46.86	5.0	50	0	93.7	73.4	115	0	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID: MB-65359	SampType: MBLK	TestCode: 8260B_W	Units: µg/L	Prep Date: 12/12/2005	RunNo: 76303
Client ID:	Batch ID: 65359	TestNo: SW8260B		Analysis Date: 12/14/2005	SeqNo: 1509694

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	BRL	5.0									
1,1,1-Trichloroethane	BRL	5.0									
1,1,2,2-Tetrachloroethane	BRL	5.0									
1,1,2-Trichloroethane	BRL	5.0									
1,1-Dichloroethane	BRL	5.0									
1,1-Dichloroethene	BRL	5.0									
1,1-Dichloropropene	BRL	5.0									
1,2,3-Trichlorobenzene	BRL	5.0									
1,2,3-Trichloropropane	BRL	5.0									
1,2,4-Trichlorobenzene	BRL	5.0									
1,2,4-Trimethylbenzene	BRL	5.0									
1,2-Dibromo-3-chloropropane	BRL	5.0									
1,2-Dibromoethane	BRL	5.0									
1,2-Dichlorobenzene	BRL	5.0									
1,2-Dichloroethane	BRL	5.0									
1,2-Dichloroethene, Total	BRL	5.0									
1,2-Dichloropropane	BRL	5.0									
1,3,5-Trimethylbenzene	BRL	5.0									
1,3-Dichlorobenzene	BRL	5.0									
1,3-Dichloropropane	BRL	5.0									
1,4-Dichlorobenzene	BRL	5.0									
2,2-Dichloropropane	BRL	5.0									
2-Butanone	BRL	50									
2-Chloroethyl vinyl ether	BRL	5.0									
2-Chlorotoluene	BRL	5.0									
2-Hexanone	BRL	10									
4-Chlorotoluene	BRL	5.0									
4-Isopropyltoluene	BRL	5.0									
4-Methyl-2-pentanone	BRL	10									
Acetone	BRL	50									
Acrolein	BRL	20									

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID: **MB-65359**	SampType: **MBLK**	TestCode: **8260B_W**	Units: **µg/L**	Prep Date: **12/12/2005**	RunNo: **76303**
Client ID:	Batch ID: **65359**	TestNo: **SW8260B**		Analysis Date: **12/14/2005**	SeqNo: **1509694**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acrylonitrile	BRL	5.0									
Benzene	BRL	5.0									
Bromobenzene	BRL	5.0									
Bromochloromethane	BRL	5.0									
Bromodichloromethane	BRL	5.0									
Bromoform	BRL	5.0									
Bromomethane	BRL	5.0									
Carbon disulfide	BRL	5.0									
Carbon tetrachloride	BRL	5.0									
Chlorobenzene	BRL	5.0									
Chloroethane	BRL	10									
Chloroform	BRL	5.0									
Chloromethane	BRL	10									
cis-1,2-Dichloroethene	BRL	5.0									
cis-1,3-Dichloropropene	BRL	5.0									
Cyclohexane	BRL	5.0									
Dibromochloromethane	BRL	5.0									
Dibromomethane	BRL	5.0									
Dichlorodifluoromethane	BRL	10									
Ethylbenzene	BRL	5.0									
Freon-113	BRL	10									
Hexachlorobutadiene	BRL	5.0									
Iodomethane	BRL	10									
Isopropylbenzene	BRL	5.0									
m,p-Xylene	BRL	10									
Methyl acetate	BRL	5.0									
Methylcyclohexane	BRL	5.0									
Methylene chloride	BRL	5.0									
Naphthalene	BRL	5.0									
n-Butylbenzene	BRL	5.0									
n-Propylbenzene	BRL	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID: **MB-65359** SampType: **MBLK** TestCode: **8260B_W** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76303**
Client ID: Batch ID: **65359** TestNo: **SW8260B** Analysis Date: **12/14/2005** SeqNo: **1509694**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	BRL	5.0									
sec-Butylbenzene	BRL	5.0									
Styrene	BRL	5.0									
tert-Butylbenzene	BRL	5.0									
Tetrachloroethene	BRL	5.0									
Toluene	BRL	5.0									
trans-1,2-Dichloroethene	BRL	5.0									
trans-1,3-Dichloropropene	BRL	5.0									
trans-1,4-Dichloro-2-butene	BRL	10									
Trichloroethene	BRL	5.0									
Trichlorofluoromethane	BRL	5.0									
Vinyl acetate	BRL	10									
Vinyl chloride	BRL	2.0									
Xylenes, Total	BRL	5.0									
Surr: 4-Bromofluorobenzene	41.82	5.0	50	0	83.6	63.7	115	0	0		
Surr: Dibromofluoromethane	43.79	5.0	50	0	87.6	70.4	123	0	0		
Surr: Toluene-d8	44.37	5.0	50	0	88.7	73.4	115	0	0		

Sample ID: **LCS-65243** SampType: **LCS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **12/9/2005** RunNo: **76066**
Client ID: Batch ID: **65243** TestNo: **SW8260B** Analysis Date: **12/9/2005** SeqNo: **1504489**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	51.94	5.0	50	0	104	77.4	127	0	0		
Toluene	53.97	5.0	50	0	108	79.6	127	0	0		
Surr: 4-Bromofluorobenzene	39.72	5.0	50	0	79.4	63.7	115	0	0		
Surr: Dibromofluoromethane	40.78	5.0	50	0	81.6	70.4	123	0	0		
Surr: Toluene-d8	46.84	5.0	50	0	93.7	73.4	115	0	0		

Qualifiers:
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID: **LCS-65359** SampType: **LCS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76161**
Client ID: Batch ID: **65359** TestNo: **SW8260B** Analysis Date: **12/12/2005** SeqNo: **1506741**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	44.01	5.0	50	0	88	65.4	159	0	0		
Benzene	47.5	5.0	50	0	95	77.4	127	0	0		
Chlorobenzene	49.59	5.0	50	0	99.2	79.9	124	0	0		
Toluene	49.55	5.0	50	0	99.1	79.6	127	0	0		
Trichloroethene	48.68	5.0	50	0	97.4	73.2	134	0	0		
Surr: 4-Bromofluorobenzene	39.28	5.0	50	0	78.6	63.7	115	0	0		
Surr: Dibromofluoromethane	43.63	5.0	50	0	87.3	70.4	123	0	0		
Surr: Toluene-d8	48.22	5.0	50	0	96.4	73.4	115	0	0		

Sample ID: **LCS-65359** SampType: **LCS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76200**
Client ID: Batch ID: **65359** TestNo: **SW8260B** Analysis Date: **12/13/2005** SeqNo: **1507380**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	44.11	5.0	50	0	88.2	65.4	159	0	0		
Benzene	51.79	5.0	50	0	104	77.4	127	0	0		
Chlorobenzene	57.14	5.0	50	0	114	79.9	124	0	0		
Toluene	56.93	5.0	50	0	114	79.6	127	0	0		
Trichloroethene	55.6	5.0	50	0	111	73.2	134	0	0		
Surr: 4-Bromofluorobenzene	39.21	5.0	50	0	78.4	63.7	115	0	0		
Surr: Dibromofluoromethane	43.33	5.0	50	0	86.7	70.4	123	0	0		
Surr: Toluene-d8	48.31	5.0	50	0	96.6	73.4	115	0	0		

Sample ID: **0512376-006AMS** SampType: **MS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **12/9/2005** RunNo: **76066**
Client ID: **MW-23** Batch ID: **65243** TestNo: **SW8260B** Analysis Date: **12/9/2005** SeqNo: **1504525**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	51.69	5.0	50	0	103	72.6	130	0	0		
Toluene	54.31	5.0	50	0	109	74.7	129	0	0		
Surr: 4-Bromofluorobenzene	40.14	5.0	50	0	80.3	63.7	115	0	0		
Surr: Dibromofluoromethane	41.75	5.0	50	0	83.5	70.4	123	0	0		

Qualifiers:
B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
BRL Below Reporting Limit
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID: **0512376-006AMS** SampType: **MS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **12/9/2005** RunNo: **76066**
Client ID: **MW-23** Batch ID: **65243** TestNo: **SW8260B** Analysis Date: **12/9/2005** SeqNo: **1504525**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	46.97	5.0	50	0	93.9	73.4	115	0	0		

Sample ID: **0512616-001AMS** SampType: **MS** TestCode: **8260B_W** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76200**
Client ID: Batch ID: **65359** TestNo: **SW8260B** Analysis Date: **12/13/2005** SeqNo: **1507539**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	43.22	5.0	50	0	86.4	58.9	163	0	0		
Benzene	53.22	5.0	50	0	106	72.6	130	0	0		
Chlorobenzene	59.56	5.0	50	0	119	75.8	126	0	0		
Toluene	58.71	5.0	50	0	117	74.7	129	0	0		
Trichloroethene	58.46	5.0	50	0	117	70	134	0	0		
Surr: 4-Bromofluorobenzene	41.71	5.0	50	0	83.4	63.7	115	0	0		
Surr: Dibromofluoromethane	43.63	5.0	50	0	87.3	70.4	123	0	0		
Surr: Toluene-d8	47.67	5.0	50	0	95.3	73.4	115	0	0		

Sample ID: **0512376-006AMSD** SampType: **MSD** TestCode: **8260B_W** Units: **µg/L** Prep Date: **12/9/2005** RunNo: **76066**
Client ID: **MW-23** Batch ID: **65243** TestNo: **SW8260B** Analysis Date: **12/9/2005** SeqNo: **1504528**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	51.72	5.0	50	0	103	72.6	130	51.69	0.0580	10	
Toluene	55.59	5.0	50	0	111	74.7	129	54.31	2.33	10	
Surr: 4-Bromofluorobenzene	39.92	5.0	50	0	79.8	63.7	115	40.14	0	0	
Surr: Dibromofluoromethane	41.74	5.0	50	0	83.5	70.4	123	41.75	0	0	
Surr: Toluene-d8	47.25	5.0	50	0	94.5	73.4	115	46.97	0	0	

Sample ID: **0512616-001AMSD** SampType: **MSD** TestCode: **8260B_W** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76200**
Client ID: Batch ID: **65359** TestNo: **SW8260B** Analysis Date: **12/13/2005** SeqNo: **1507540**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	45.62	5.0	50	0	91.2	58.9	163	43.22	5.40	15.8	

Qualifiers:
B Analyte detected in the associated Method Blank
BRL Below Reporting Limit
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
N Analyte not NELAC certified
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 8260B_W

Sample ID: **0512616-001AMSD** SampType: **MSD** TestCode: **8260B_W** Units: **µg/L** Prep Date: **12/12/2005** RunNo: **76200**
Client ID: Batch ID: **65359** TestNo: **SW8260B** Analysis Date: **12/13/2005** SeqNo: **1507540**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	52.18	5.0	50	0	104	72.6	130	53.22	1.97	10	
Chlorobenzene	59.13	5.0	50	0	118	75.8	126	59.56	0.725	10	
Toluene	58.37	5.0	50	0	117	74.7	129	58.71	0.581	10	
Trichloroethene	54.6	5.0	50	0	109	70	134	58.46	6.83	11	
Surr: 4-Bromofluorobenzene	40.58	5.0	50	0	81.2	63.7	115	41.71	0	0	
Surr: Dibromofluoromethane	42.48	5.0	50	0	85	70.4	123	43.63	0	0	
Surr: Toluene-d8	47.93	5.0	50	0	95.9	73.4	115	47.67	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 9056_NO2NO3_W

Sample ID: **MB-R75994** SampType: **MBLK** TestCode: **9056_NO2NO** Units: **mg/L** Prep Date: RunNo: **75994**
Client ID: Batch ID: **R75994** TestNo: **SW9056** Analysis Date: **12/8/2005** SeqNo: **1502996**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate	BRL	0.25									

Sample ID: **LCS-R75994** SampType: **LCS** TestCode: **9056_NO2NO** Units: **mg/L** Prep Date: RunNo: **75994**
Client ID: Batch ID: **R75994** TestNo: **SW9056** Analysis Date: **12/8/2005** SeqNo: **1502995**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate	4.903	0.25	5	0	98.1	90	110	0	0		

Sample ID: **0512376-009FMS** SampType: **MS** TestCode: **9056_NO2NO** Units: **mg/L** Prep Date: RunNo: **75994**
Client ID: **MW-26** Batch ID: **R75994** TestNo: **SW9056** Analysis Date: **12/8/2005** SeqNo: **1503008**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate	5.436	0.25	5	0.2518	104	90	110	0	0		

Sample ID: **0512397-007C MS** SampType: **MS** TestCode: **9056_NO2NO** Units: **mg/L** Prep Date: RunNo: **75994**
Client ID: Batch ID: **R75994** TestNo: **SW9056** Analysis Date: **12/8/2005** SeqNo: **1503016**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate	5.161	0.25	5	0	103	90	110	0	0		H

Sample ID: **0512376-009FMSD** SampType: **MSD** TestCode: **9056_NO2NO** Units: **mg/L** Prep Date: RunNo: **75994**
Client ID: **MW-26** Batch ID: **R75994** TestNo: **SW9056** Analysis Date: **12/8/2005** SeqNo: **1503009**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrate	5.452	0.25	5	0.2518	104	90	110	5.436	0.286	20	

Qualifiers:
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits
- BRL Below Reporting Limit
- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- N Analyte not NELAC certified

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: 9056_W

Sample ID: **MB-R75996** SampType: **MBLK** TestCode: **9056_W** Units: **mg/L** Prep Date: RunNo: **75996**
Client ID: Batch ID: **R75996** TestNo: **SW9056** Analysis Date: **12/8/2005** SeqNo: **1503029**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	BRL	1.0									

Sample ID: **LCS-R75996** SampType: **LCS** TestCode: **9056_W** Units: **mg/L** Prep Date: RunNo: **75996**
Client ID: Batch ID: **R75996** TestNo: **SW9056** Analysis Date: **12/8/2005** SeqNo: **1503028**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	24.54	1.0	25	0	98.1	90	110	0	0		

Sample ID: **0512376-009FMS** SampType: **MS** TestCode: **9056_W** Units: **mg/L** Prep Date: RunNo: **75996**
Client ID: **MW-26** Batch ID: **R75996** TestNo: **SW9056** Analysis Date: **12/8/2005** SeqNo: **1503039**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	49.43	1.0	25	26.26	92.7	90	110	0	0		

Sample ID: **0512397-007C MS** SampType: **MS** TestCode: **9056_W** Units: **mg/L** Prep Date: RunNo: **75996**
Client ID: Batch ID: **R75996** TestNo: **SW9056** Analysis Date: **12/8/2005** SeqNo: **1503045**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	24.02	1.0	25	0.7113	93.3	90	110	0	0		

Sample ID: **0512376-009FMSD** SampType: **MSD** TestCode: **9056_W** Units: **mg/L** Prep Date: RunNo: **75996**
Client ID: **MW-26** Batch ID: **R75996** TestNo: **SW9056** Analysis Date: **12/8/2005** SeqNo: **1503040**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate	49.41	1.0	25	26.26	92.6	90	110	49.43	0.0536	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: RSKSOP-175

Sample ID: **MB-65425** SampType: **MBLK** TestCode: **RSKSOP-175** Units: **µg/L** Prep Date: **12/14/2005** RunNo: **76259**
Client ID: Batch ID: **65425** TestNo: **SOP-RSK 17** Analysis Date: **12/14/2005** SeqNo: **1508426**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	BRL	4.0									

Sample ID: **LCS-65425** SampType: **LCS** TestCode: **RSKSOP-175** Units: **µg/L** Prep Date: **12/14/2005** RunNo: **76259**
Client ID: Batch ID: **65425** TestNo: **SOP-RSK 17** Analysis Date: **12/14/2005** SeqNo: **1508429**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	129.5	4.0	200	0	64.7	43.7	115	0	0		

Sample ID: **LCSD-65425** SampType: **LCSD** TestCode: **RSKSOP-175** Units: **µg/L** Prep Date: **12/14/2005** RunNo: **76259**
Client ID: Batch ID: **65425** TestNo: **SOP-RSK 17** Analysis Date: **12/14/2005** SeqNo: **1508432**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	132.9	4.0	200	0	66.5	43.7	115	129.5	2.64	19.5	

Sample ID: **0512376-009BMS** SampType: **MS** TestCode: **RSKSOP-175** Units: **µg/L** Prep Date: **12/14/2005** RunNo: **76259**
Client ID: **MW-26** Batch ID: **65425** TestNo: **SOP-RSK 17** Analysis Date: **12/14/2005** SeqNo: **1508936**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	141.6	4.0	200	0	70.8	26.7	123	0	0		

Sample ID: **0512467-005BMS** SampType: **MS** TestCode: **RSKSOP-175** Units: **µg/L** Prep Date: **12/14/2005** RunNo: **76293**
Client ID: Batch ID: **65425** TestNo: **SOP-RSK 17** Analysis Date: **12/15/2005** SeqNo: **1509208**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	127.6	4.0	200	0	63.8	26.7	123	0	0		

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

CLIENT: Consultech Environmental, Inc.
Work Order: 0512376
Project: Souther's Grocery

ANALYTICAL QC SUMMARY REPORT

TestCode: RSKSOP-175

Sample ID: **0512467-005BMSD** SampType: **MSD** TestCode: **RSKSOP-175** Units: **µg/L** Prep Date: **12/14/2005** RunNo: **76293**
Client ID: Batch ID: **65425** TestNo: **SOP-RSK 17** Analysis Date: **12/15/2005** SeqNo: **1509210**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	125.7	4.0	200	0	62.8	26.7	123	127.6	1.51	30	

Qualifiers:

B	Analyte detected in the associated Method Blank	BRL	Below Reporting Limit	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	N	Analyte not NELAC certified
R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits		

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

AES

December 19, 2005

Jim Wilson
Consultech Environmental, Inc.
1800 MacLeod Rd
Suite F
Lawrenceville, GA 30043

TEL: (678) 377-0400
FAX (678) 377-0051

RE: George Southers Grocery

Order No.: 0512618

Dear Jim Wilson:

Analytical Environmental Services, Inc. received 5 samples on 12/12/2005 5:55:00 PM for the analyses presented in the following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. Sample results are not dry weight corrected, unless if Pmoist analysis are requested on the chain of custody or other project specific arrangements have been made.
AES' certifications are as follows:
-NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water, effective 06/01/05-06/30/06.
-AIHA Certification number 505 for analysis of Industrial Hygiene samples (Organics, Inorganics), Paint Chips, Soil and Dust Wipes, effective until 02/01/07.

These results relate only to the items tested. This report may only be reproduced in full and contains 12 total pages (including cover letter).

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

Sincerely,

Mila Crain

Mila Crain
Customer Service Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 Presidential Parkway, Atlanta GA 30340-3704
TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 512618

Date: _____ Page _____ of _____

COMPANY: CONSULTECH ENVIRONMENTAL
ADDRESS: 1800 MACLEAD DR, SUITE F LAWRENCEVILLE, GA 30043
PHONE: 678-377-0400
FAX: 678-377-0051
SAMPLED BY: DREW MILLER
SIGNATURE: Drew Miller

ANALYSIS REQUESTED: BTEX/MTBE/NAPH/1,2DCA (8260); 8-OXYGENATES; EDB SOIL; TOTAL LEAD; NITRATE; SULFATE; DISSOLVED IRON; METHANE

PRESERVATION (See codes): HCL; HCL; I; N; I; I; I; I

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	BTEX/MTBE/NAPH/1,2DCA (8260)	8-OXYGENATES	EDB SOIL	TOTAL LEAD	NITRATE	SULFATE	DISSOLVED IRON	METHANE						REMARKS	No # of Containers
1	DW-2	12/12/05	8:00	X		GW	X	X	X	X	X	X	X	X							
2	DW-4	12/12/05	8:30	X		GW	X	X	X	X	X	X	X	X							
3	DW-6	12/12/05	9:00	X		GW	X	X	X	X	X	X	X	X							
4	MW-33	12/12/05	9:30	X		GW	X	X	X	X	X	X	X	X							
5	MW-40	12/12/05	10:00	X		GW	X	X	X	X	X	X	X	X							
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1: Jim Wilson	12/12/05 5:55	1: [illegible]	12/12 5:55 pm
2:		2:	
3:		3:	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: / VIA
IN: / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER ____

PROJECT INFORMATION
PROJECT NAME: GEORGE SOUTHERN GROCERY
PROJECT #: C-05-02-015
SITE ADDRESS: CAMPOBELLO, SC
SEND REPORT TO: JIM WILSON
INVOICE TO (IF DIFFERENT FROM ABOVE):
QUOTE #: _____ PO# _____

RECEIPT
Total # of Containers

Turnaround Time Request
- ○ Standard 5 Business Days
- ○ 2 Business Day Rush
- ○ Next Business Day Rush
- ○ Same Day Rush (auth req.)
- ⊗ Other 12/16/05

STATE PROGRAM (if any): ____
E-mail? Y N, Fax? Y N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air, GW = Groundwater, SE = Sediment, SO = Soil, SW = Surface Water, W = Water (Blanks), DW = Drinking Water (Blanks), O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice, I = Ice only, N = Nitric acid, S+I = Sulfuric acid + ice, S.M+I = Sodium Bisulfate Methanol + ice, O = Other (specify), NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: George Southers Grocery
Lab Order: 0512618

CASE NARRATIVE

Anion Analysis by Method 300:

Matrix spike recovery for Fluoride on sample 0512618-005F was outside control limits biased high. LCS recovery was within control limits indicating possible matrix interference.

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc. **Client Sample ID:** DW-2
Project: George Southers Grocery **Collection Date:** 12/12/2005 8:00:00 AM
Lab ID: 0512618-001 **Matrix:** GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	0.568	0.196		µg/L	65482	10	12/16/2005 9:39 AM
Surr: 4-Bromofluorobenzene	88.6	39.4-142		%REC	65482	1	12/16/2005 12:41 AM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	5.2	4.0		µg/L	65425	1	12/15/2005 11:00 AM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	BRL	12		mg/L		50	12/13/2005 9:47 AM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	130	50		mg/L		50	12/13/2005 9:47 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	3.57	1.00		µg/L	65450	1	12/15/2005 11:16 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	BRL	100		µg/L	65346	1	12/15/2005 9:09 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **TMP**
Ethanol	BRL	25	N	µg/L	65359	1	12/13/2005 7:55 PM
Ethyl tert-butyl alcohol	94	5.0	N	µg/L	65359	1	12/13/2005 7:55 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65359	1	12/13/2005 7:55 PM
Isopropyl ether	120	5.0	N	µg/L	65359	1	12/13/2005 7:55 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	65359	1	12/13/2005 7:55 PM
tert-Amyl ethyl ether	BRL	5.0	N	µg/L	65359	1	12/13/2005 7:55 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	65359	1	12/13/2005 7:55 PM
tert-Butyl formate	BRL	5.0	N	µg/L	65359	1	12/13/2005 7:55 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **TMP**
Methyl tert-butyl ether	BRL	1.0		µg/L	65359	1	12/13/2005 7:55 PM
Benzene	400	10		µg/L	65359	10	12/14/2005 1:31 PM
1,2-Dichloroethane	BRL	5.0		µg/L	65359	1	12/13/2005 7:55 PM
Toluene	310	10		µg/L	65359	10	12/14/2005 1:31 PM
Ethylbenzene	78	1.0		µg/L	65359	1	12/13/2005 7:55 PM
m,p-Xylene	320	1.0		µg/L	65359	1	12/13/2005 7:55 PM
o-Xylene	170	1.0		µg/L	65359	1	12/13/2005 7:55 PM
Naphthalene	25	5.0		µg/L	65359	1	12/13/2005 7:55 PM
Surr: 4-Bromofluorobenzene	92.8	63.7-115		%REC	65359	10	12/14/2005 1:31 PM
Surr: 4-Bromofluorobenzene	95.3	63.7-115		%REC	65359	1	12/13/2005 7:55 PM
Surr: Dibromofluoromethane	84.8	70.4-123		%REC	65359	1	12/13/2005 7:55 PM
Surr: Dibromofluoromethane	85.0	70.4-123		%REC	65359	10	12/14/2005 1:31 PM
Surr: Toluene-d8	92.9	73.4-115		%REC	65359	1	12/13/2005 7:55 PM
Surr: Toluene-d8	88.7	73.4-115		%REC	65359	10	12/14/2005 1:31 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: George Southers Grocery
Lab ID: 0512618-002

Client Sample ID: DW-4
Collection Date: 12/12/2005 8:30:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	11.6	3.92		µg/L	65482	200	12/16/2005 10:02 AM
Surr: 4-Bromofluorobenzene	89.8	39.4-142		%REC	65482	1	12/16/2005 1:04 AM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	BRL	4.0		µg/L	65425	1	12/15/2005 11:09 AM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	BRL	0.25		mg/L		1	12/13/2005 12:05 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	27	1.0		mg/L		1	12/13/2005 12:05 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	13.2	1.00		µg/L	65450	1	12/15/2005 11:22 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	226	100		µg/L	65346	1	12/15/2005 9:25 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **TMP**
Ethanol	BRL	25	N	µg/L	65359	1	12/13/2005 8:45 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	65359	1	12/13/2005 8:45 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65359	1	12/13/2005 8:45 PM
Isopropyl ether	270	5.0	N	µg/L	65359	1	12/13/2005 8:45 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	65359	1	12/13/2005 8:45 PM
tert-Amyl ethyl ether	BRL	5.0	N	µg/L	65359	1	12/13/2005 8:45 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	65359	1	12/13/2005 8:45 PM
tert-Butyl formate	BRL	5.0	N	µg/L	65359	1	12/13/2005 8:45 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **TMP**
Methyl tert-butyl ether	BRL	1.0		µg/L	65359	1	12/13/2005 8:45 PM
Benzene	640	10		µg/L	65359	10	12/14/2005 2:21 PM
1,2-Dichloroethane	BRL	5.0		µg/L	65359	1	12/13/2005 8:45 PM
Toluene	4700	100		µg/L	65359	100	12/14/2005 1:56 PM
Ethylbenzene	620	100		µg/L	65359	100	12/14/2005 1:56 PM
m,p-Xylene	3100	10		µg/L	65359	10	12/14/2005 2:21 PM
o-Xylene	1300	10		µg/L	65359	10	12/14/2005 2:21 PM
Naphthalene	310	50		µg/L	65359	10	12/14/2005 2:21 PM
Surr: 4-Bromofluorobenzene	98.3	63.7-115		%REC	65359	1	12/13/2005 8:45 PM
Surr: 4-Bromofluorobenzene	94.4	63.7-115		%REC	65359	100	12/14/2005 1:56 PM
Surr: 4-Bromofluorobenzene	102	63.7-115		%REC	65359	10	12/14/2005 2:21 PM
Surr: Dibromofluoromethane	77.3	70.4-123		%REC	65359	1	12/13/2005 8:45 PM
Surr: Dibromofluoromethane	87.5	70.4-123		%REC	65359	100	12/14/2005 1:56 PM
Surr: Dibromofluoromethane	87.1	70.4-123		%REC	65359	10	12/14/2005 2:21 PM
Surr: Toluene-d8	93.8	73.4-115		%REC	65359	1	12/13/2005 8:45 PM
Surr: Toluene-d8	92.8	73.4-115		%REC	65359	100	12/14/2005 1:56 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT:	Consultech Environmental, Inc.	**Client Sample ID:**	DW-4
Project:	George Southers Grocery	**Collection Date:**	12/12/2005 8:30:00 AM
Lab ID:	0512618-002	**Matrix:**	GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **TMP**
Surr: Toluene-d8	93.8	73.4-115		%REC	65359	10	12/14/2005 2:21 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
	BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
	H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
	N	Analyte not NELAC certified	NC	Not Confirmed
	B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: George Southers Grocery
Lab ID: 0512618-003

Client Sample ID: DW-6
Collection Date: 12/12/2005 9:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	65482	1	12/16/2005 1:27 AM
Surr: 4-Bromofluorobenzene	86.5	39.4-142		%REC	65482	1	12/16/2005 1:27 AM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	BRL	4.0		µg/L	65425	1	12/15/2005 11:17 AM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	BRL	0.25		mg/L		1	12/13/2005 10:16 AM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	68	1.0		mg/L		1	12/13/2005 10:16 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	4.50	1.00		µg/L	65450	1	12/15/2005 11:27 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	BRL	100		µg/L	65346	1	12/15/2005 9:31 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **TMP**
Ethanol	BRL	25	N	µg/L	65359	1	12/13/2005 8:20 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	65359	1	12/13/2005 8:20 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65359	1	12/13/2005 8:20 PM
Isopropyl ether	BRL	5.0	N	µg/L	65359	1	12/13/2005 8:20 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	65359	1	12/13/2005 8:20 PM
tert-Amyl ethyl ether	BRL	5.0	N	µg/L	65359	1	12/13/2005 8:20 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	65359	1	12/13/2005 8:20 PM
tert-Butyl formate	BRL	5.0	N	µg/L	65359	1	12/13/2005 8:20 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **TMP**
Methyl tert-butyl ether	BRL	1.0		µg/L	65359	1	12/13/2005 8:20 PM
Benzene	BRL	1.0		µg/L	65359	1	12/13/2005 8:20 PM
1,2-Dichloroethane	BRL	5.0		µg/L	65359	1	12/13/2005 8:20 PM
Toluene	BRL	1.0		µg/L	65359	1	12/13/2005 8:20 PM
Ethylbenzene	BRL	1.0		µg/L	65359	1	12/13/2005 8:20 PM
m,p-Xylene	BRL	1.0		µg/L	65359	1	12/13/2005 8:20 PM
o-Xylene	BRL	1.0		µg/L	65359	1	12/13/2005 8:20 PM
Naphthalene	BRL	5.0		µg/L	65359	1	12/13/2005 8:20 PM
Surr: 4-Bromofluorobenzene	83.3	63.7-115		%REC	65359	1	12/13/2005 8:20 PM
Surr: Dibromofluoromethane	92.9	70.4-123		%REC	65359	1	12/13/2005 8:20 PM
Surr: Toluene-d8	92.0	73.4-115		%REC	65359	1	12/13/2005 8:20 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: George Southers Grocery
Lab ID: 0512618-004

Client Sample ID: MW-33
Collection Date: 12/12/2005 9:30:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	65482	1	12/16/2005 2:13 AM
Surr: 4-Bromofluorobenzene	88.1	39.4-142		%REC	65482	1	12/16/2005 2:13 AM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	BRL	4.0		µg/L	65425	1	12/15/2005 11:25 AM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	BRL	0.25		mg/L		1	12/13/2005 10:31 AM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	6.8	1.0		mg/L		1	12/13/2005 10:31 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	3.48	1.00		µg/L	65450	1	12/15/2005 11:32 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	BRL	100		µg/L	65346	1	12/15/2005 9:36 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	65572	1	12/19/2005 1:19 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	65572	1	12/19/2005 1:19 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65572	1	12/19/2005 1:19 PM
Isopropyl ether	BRL	5.0	N	µg/L	65572	1	12/19/2005 1:19 PM
tert-Amyl alcohol	64	5.0	N	µg/L	65572	1	12/19/2005 1:19 PM
tert-Amyl ethyl ether	BRL	5.0	N	µg/L	65572	1	12/19/2005 1:19 PM
tert-Butyl Alcohol	54	5.0	N	µg/L	65572	1	12/19/2005 1:19 PM
tert-Butyl formate	BRL	5.0	N	µg/L	65572	1	12/19/2005 1:19 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	65359	1	12/14/2005 6:05 PM
Benzene	BRL	1.0		µg/L	65359	1	12/14/2005 6:05 PM
1,2-Dichloroethane	BRL	5.0		µg/L	65359	1	12/14/2005 6:05 PM
Toluene	BRL	1.0		µg/L	65359	1	12/14/2005 6:05 PM
Ethylbenzene	BRL	1.0		µg/L	65359	1	12/14/2005 6:05 PM
m,p-Xylene	BRL	1.0		µg/L	65359	1	12/14/2005 6:05 PM
o-Xylene	BRL	1.0		µg/L	65359	1	12/14/2005 6:05 PM
Naphthalene	BRL	5.0		µg/L	65359	1	12/14/2005 6:05 PM
Surr: 4-Bromofluorobenzene	78.2	63.7-115		%REC	65359	1	12/14/2005 6:05 PM
Surr: 4-Bromofluorobenzene	77.9	63.7-115		%REC	65572	1	12/19/2005 1:19 PM
Surr: Dibromofluoromethane	99.9	70.4-123		%REC	65359	1	12/14/2005 6:05 PM
Surr: Dibromofluoromethane	91.4	70.4-123		%REC	65572	1	12/19/2005 1:19 PM
Surr: Toluene-d8	91.1	73.4-115		%REC	65572	1	12/19/2005 1:19 PM
Surr: Toluene-d8	95.0	73.4-115		%REC	65359	1	12/14/2005 6:05 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: George Southers Grocery
Lab ID: 0512618-005

Client Sample ID: MW-40
Collection Date: 12/12/2005 10:00:00 AM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	0.130	0.020		µg/L	65482	1	12/16/2005 2:36 AM
Surr: 4-Bromofluorobenzene	101	39.4-142		%REC	65482	1	12/16/2005 2:36 AM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	BRL	4.0		µg/L	65425	1	12/15/2005 11:34 AM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	0.90	0.25		mg/L		1	12/13/2005 10:46 AM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	8.5	1.0		mg/L		1	12/13/2005 10:46 AM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	99.0	1.00		µg/L	65450	1	12/15/2005 11:37 PM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	BRL	100		µg/L	65346	1	12/15/2005 9:41 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	65572	1	12/19/2005 1:43 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	65572	1	12/19/2005 1:43 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65572	1	12/19/2005 1:43 PM
Isopropyl ether	BRL	5.0	N	µg/L	65572	1	12/19/2005 1:43 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	65572	1	12/19/2005 1:43 PM
tert-Amyl ethyl ether	BRL	5.0	N	µg/L	65572	1	12/19/2005 1:43 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	65572	1	12/19/2005 1:43 PM
tert-Butyl formate	BRL	5.0	N	µg/L	65572	1	12/19/2005 1:43 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	65359	1	12/14/2005 6:30 PM
Benzene	5.2	1.0		µg/L	65359	1	12/14/2005 6:30 PM
1,2-Dichloroethane	BRL	5.0		µg/L	65359	1	12/14/2005 6:30 PM
Toluene	37	1.0		µg/L	65359	1	12/14/2005 6:30 PM
Ethylbenzene	4.0	1.0		µg/L	65359	1	12/14/2005 6:30 PM
m,p-Xylene	9.7	1.0		µg/L	65359	1	12/14/2005 6:30 PM
o-Xylene	7.7	1.0		µg/L	65359	1	12/14/2005 6:30 PM
Naphthalene	5.4	5.0		µg/L	65359	1	12/14/2005 6:30 PM
Surr: 4-Bromofluorobenzene	89.6	63.7-115		%REC	65359	1	12/14/2005 6:30 PM
Surr: 4-Bromofluorobenzene	89.5	63.7-115		%REC	65572	1	12/19/2005 1:43 PM
Surr: Dibromofluoromethane	92.1	70.4-123		%REC	65359	1	12/14/2005 6:30 PM
Surr: Dibromofluoromethane	94.2	70.4-123		%REC	65572	1	12/19/2005 1:43 PM
Surr: Toluene-d8	89.9	73.4-115		%REC	65572	1	12/19/2005 1:43 PM
Surr: Toluene-d8	95.4	73.4-115		%REC	65359	1	12/14/2005 6:30 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

19-Dec-05

Lab Order: 0512618
Client: Consultech Environmental, Inc.
Project: George Southers Grocery

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0512618-001A	DW-2	12/12/2005 8:00:00 AM	Groundwater	Oxygenates by GC/MS		12/12/2005	12/13/2005
				Volatile Organic Compounds by GC/MS		12/12/2005	12/13/2005
				Volatile Organic Compounds by GC/MS		12/12/2005	12/14/2005
0512618-001B				GC Analysis of Gaseous Samples		12/14/2005	12/15/2005
0512618-001C				MICRO-EXTRACTABLE VOCs		12/15/2005	12/16/2005
				MICRO-EXTRACTABLE VOCs		12/15/2005	12/16/2005
0512618-001D				Dissolved Metals by ICP/MS		12/13/2005	12/15/2005
0512618-001E				Total Metals by ICP/MS		12/15/2005	12/15/2005
0512618-001F				ION SCAN			12/13/2005
				ION SCAN			12/13/2005
0512618-002A	DW-4	12/12/2005 8:30:00 AM		Oxygenates by GC/MS		12/12/2005	12/13/2005
				Volatile Organic Compounds by GC/MS		12/12/2005	12/13/2005
				Volatile Organic Compounds by GC/MS		12/12/2005	12/14/2005
				Volatile Organic Compounds by GC/MS		12/12/2005	12/14/2005
0512618-002B				GC Analysis of Gaseous Samples		12/14/2005	12/15/2005
0512618-002C				MICRO-EXTRACTABLE VOCs		12/15/2005	12/16/2005
				MICRO-EXTRACTABLE VOCs		12/15/2005	12/16/2005
0512618-002D				Dissolved Metals by ICP/MS		12/13/2005	12/15/2005
0512618-002E				Total Metals by ICP/MS		12/15/2005	12/15/2005
0512618-002F				ION SCAN			12/13/2005
				ION SCAN			12/13/2005
0512618-003A	DW-6	12/12/2005 9:00:00 AM		Oxygenates by GC/MS		12/12/2005	12/13/2005
				Volatile Organic Compounds by GC/MS		12/12/2005	12/13/2005
0512618-003B				GC Analysis of Gaseous Samples		12/14/2005	12/15/2005
0512618-003C				MICRO-EXTRACTABLE VOCs		12/15/2005	12/16/2005
0512618-003D				Dissolved Metals by ICP/MS		12/13/2005	12/15/2005
0512618-003E				Total Metals by ICP/MS		12/15/2005	12/15/2005
0512618-003F				ION SCAN			12/13/2005

Lab Order: 0512618
Client: Consultech Environmental, Inc.
Project: George Southers Grocery

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
0512618-003F	DW-6	12/12/2005 9:00:00 AM	Groundwater	ION SCAN			12/13/2005
0512618-004A	MW-33	12/12/2005 9:30:00 AM		Oxygenates by GC/MS		12/19/2005	12/19/2005
				Volatile Organic Compounds by GC/MS		12/12/2005	12/14/2005
				Volatile Organic Compounds by GC/MS		12/19/2005	12/19/2005
0512618-004B				GC Analysis of Gaseous Samples		12/14/2005	12/15/2005
0512618-004C				MICRO-EXTRACTABLE VOCs		12/15/2005	12/16/2005
0512618-004D				Dissolved Metals by ICP/MS		12/13/2005	12/15/2005
0512618-004E				Total Metals by ICP/MS		12/15/2005	12/15/2005
0512618-004F				ION SCAN			12/13/2005
				ION SCAN			12/13/2005
0512618-005A	MW-40	12/12/2005 10:00:00 AM		Oxygenates by GC/MS		12/19/2005	12/19/2005
				Volatile Organic Compounds by GC/MS		12/12/2005	12/14/2005
				Volatile Organic Compounds by GC/MS		12/19/2005	12/19/2005
0512618-005B				GC Analysis of Gaseous Samples		12/14/2005	12/15/2005
0512618-005C				MICRO-EXTRACTABLE VOCs		12/15/2005	12/16/2005
0512618-005D				Dissolved Metals by ICP/MS		12/13/2005	12/15/2005
0512618-005E				Total Metals by ICP/MS		12/15/2005	12/15/2005
0512618-005F				ION SCAN			12/13/2005
				ION SCAN			12/13/2005

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3785 I .ential Parkway, Atlanta GA 30340-3704
TEL: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: _____

Date: _____ Page _____ of _____

COMPANY:

ADDRESS:

PHONE:

FAX:

SAMPLED BY:

SIGNATURE:

ANALYSIS REQUESTED

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)	REMARKS	No # of Containers
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									

RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME
1.		1.	
2.		2.	
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT: VIA:
IN: VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER_____

PROJECT INFORMATION

PROJECT NAME:

PROJECT #:

SITE ADDRESS:

SEND REPORT TO:

INVOICE TO:
(IF DIFFERENT FROM ABOVE)

QUOTE #____ PO#____

RECEIPT

Total # of Containers

Turnaround Time Request
- Standard 5 Business Days
- 2 Business Day Rush
- Next Business Day Rush
- Same Day Rush **(auth req.)**
- Other _____

STATE PROGRAM (if any): _____
E-mail? Y N Fax? Y N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR SATURDAY ARE CONSIDERED AS RECEIVED ON THE NEXT BUSINESS DAY; IF NO TAT IS MARKED ON COC AES WILL PROCEED AS STANDARD TAT.
SAMPLES ARE DISPOSED OF 30 DAYS AFTER COMPLETION OF REPORT UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0512770-001

Client Sample ID: DW-1
Collection Date: 12/14/2005 12:00:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	0.184	0.020		µg/L	65587	1	12/19/2005 3:06 PM
Surr: 4-Bromofluorobenzene	110	39.4-142		%REC	65587	1	12/19/2005 3:06 PM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	4.6	4.0		µg/L	65524	1	12/16/2005 1:54 PM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	BRL	0.25		mg/L		1	12/15/2005 1:45 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	BRL	1.0		mg/L		1	12/15/2005 1:45 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	1.07	1.00		µg/L	65478	1	12/16/2005 2:32 AM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	BRL	100		µg/L	65473	1	12/16/2005 6:55 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	65572	1	12/19/2005 2:09 PM
Ethyl tert-butyl alcohol	86	5.0	N	µg/L	65572	1	12/19/2005 2:09 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65572	1	12/19/2005 2:09 PM
Isopropyl ether	220	5.0	N	µg/L	65572	1	12/19/2005 2:09 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	65572	1	12/19/2005 2:09 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	65572	1	12/19/2005 2:09 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	65572	1	12/19/2005 2:09 PM
tert-Butyl formate	BRL	5.0	N	µg/L	65572	1	12/19/2005 2:09 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	65572	1	12/19/2005 2:09 PM
Benzene	900	10		µg/L	65572	10	12/19/2005 3:48 PM
1,2-Dichloroethane	BRL	5.0		µg/L	65572	1	12/19/2005 2:09 PM
Toluene	50	1.0		µg/L	65572	1	12/19/2005 2:09 PM
Ethylbenzene	5.9	1.0		µg/L	65572	1	12/19/2005 2:09 PM
m,p-Xylene	25	1.0		µg/L	65572	1	12/19/2005 2:09 PM
o-Xylene	11	1.0		µg/L	65572	1	12/19/2005 2:09 PM
Naphthalene	62	5.0		µg/L	65572	1	12/19/2005 2:09 PM
Surr: 4-Bromofluorobenzene	92.7	63.7-115		%REC	65572	1	12/19/2005 2:09 PM
Surr: 4-Bromofluorobenzene	87.2	63.7-115		%REC	65572	10	12/19/2005 3:48 PM
Surr: Dibromofluoromethane	77.7	70.4-123		%REC	65572	1	12/19/2005 2:09 PM
Surr: Dibromofluoromethane	86.1	70.4-123		%REC	65572	10	12/19/2005 3:48 PM
Surr: Toluene-d8	88.3	73.4-115		%REC	65572	10	12/19/2005 3:48 PM
Surr: Toluene-d8	91.2	73.4-115		%REC	65572	1	12/19/2005 2:09 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0512770-002

Client Sample ID: MW-10R
Collection Date: 12/14/2005 12:15:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	65587	1	12/19/2005 3:29 PM
Surr: 4-Bromofluorobenzene	86.4	39.4-142		%REC	65587	1	12/19/2005 3:29 PM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	BRL	4.0		µg/L	65524	1	12/16/2005 2:09 PM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	BRL	5.0		mg/L		20	12/15/2005 2:31 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	37	20		mg/L		20	12/15/2005 2:31 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	1.34	1.00		µg/L	65478	1	12/16/2005 2:37 AM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	BRL	100		µg/L	65473	1	12/16/2005 7:01 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	65572	1	12/19/2005 2:34 PM
Ethyl tert-butyl alcohol	BRL	5.0	N	µg/L	65572	1	12/19/2005 2:34 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65572	1	12/19/2005 2:34 PM
Isopropyl ether	BRL	5.0	N	µg/L	65572	1	12/19/2005 2:34 PM
tert-Amyl alcohol	120	5.0	N	µg/L	65572	1	12/19/2005 2:34 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	65572	1	12/19/2005 2:34 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	65572	1	12/19/2005 2:34 PM
tert-Butyl formate	BRL	5.0	N	µg/L	65572	1	12/19/2005 2:34 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	65572	1	12/19/2005 2:34 PM
Benzene	BRL	1.0		µg/L	65572	1	12/19/2005 2:34 PM
1,2-Dichloroethane	BRL	5.0		µg/L	65572	1	12/19/2005 2:34 PM
Toluene	BRL	1.0		µg/L	65572	1	12/19/2005 2:34 PM
Ethylbenzene	BRL	1.0		µg/L	65572	1	12/19/2005 2:34 PM
m,p-Xylene	BRL	1.0		µg/L	65572	1	12/19/2005 2:34 PM
o-Xylene	2.8	1.0		µg/L	65572	1	12/19/2005 2:34 PM
Naphthalene	5.0	5.0		µg/L	65572	1	12/19/2005 2:34 PM
Surr: 4-Bromofluorobenzene	83.7	63.7-115		%REC	65572	1	12/19/2005 2:34 PM
Surr: Dibromofluoromethane	91.8	70.4-123		%REC	65572	1	12/19/2005 2:34 PM
Surr: Toluene-d8	88.2	73.4-115		%REC	65572	1	12/19/2005 2:34 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0512770-003

Client Sample ID: DW-5
Collection Date: 12/14/2005 12:30:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	0.893	0.198		µg/L	65587	10	12/19/2005 5:37 PM
Surr: 4-Bromofluorobenzene	110	39.4-142		%REC	65587	1	12/19/2005 5:00 PM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	5.1	4.0		µg/L	65524	1	12/16/2005 2:29 PM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	BRL	0.25		mg/L		1	12/15/2005 2:00 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	BRL	1.0		mg/L		1	12/15/2005 2:00 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	BRL	1.00		µg/L	65478	1	12/16/2005 2:43 AM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	BRL	100		µg/L	65473	1	12/16/2005 7:06 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	65572	1	12/19/2005 2:58 PM
Ethyl tert-butyl alcohol	130	5.0	N	µg/L	65572	1	12/19/2005 2:58 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65572	1	12/19/2005 2:58 PM
Isopropyl ether	270	5.0	N	µg/L	65572	1	12/19/2005 2:58 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	65572	1	12/19/2005 2:58 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	65572	1	12/19/2005 2:58 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	65572	1	12/19/2005 2:58 PM
tert-Butyl formate	BRL	5.0	N	µg/L	65572	1	12/19/2005 2:58 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	65572	1	12/19/2005 2:58 PM
Benzene	1200	10		µg/L	65572	10	12/19/2005 4:13 PM
1,2-Dichloroethane	BRL	5.0		µg/L	65572	1	12/19/2005 2:58 PM
Toluene	71	1.0		µg/L	65572	1	12/19/2005 2:58 PM
Ethylbenzene	14	1.0		µg/L	65572	1	12/19/2005 2:58 PM
m,p-Xylene	61	1.0		µg/L	65572	1	12/19/2005 2:58 PM
o-Xylene	23	1.0		µg/L	65572	1	12/19/2005 2:58 PM
Naphthalene	100	5.0		µg/L	65572	1	12/19/2005 2:58 PM
Surr: 4-Bromofluorobenzene	95.8	63.7-115		%REC	65572	1	12/19/2005 2:58 PM
Surr: 4-Bromofluorobenzene	90.6	63.7-115		%REC	65572	10	12/19/2005 4:13 PM
Surr: Dibromofluoromethane	79.0	70.4-123		%REC	65572	1	12/19/2005 2:58 PM
Surr: Dibromofluoromethane	87.1	70.4-123		%REC	65572	10	12/19/2005 4:13 PM
Surr: Toluene-d8	87.7	73.4-115		%REC	65572	10	12/19/2005 4:13 PM
Surr: Toluene-d8	91.4	73.4-115		%REC	65572	1	12/19/2005 2:58 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

Analytical Environmental Services, Inc.

Date: *19-Dec-05*

CLIENT: Consultech Environmental, Inc.
Project: Souther's Grocery
Lab ID: 0512770-004

Client Sample ID: DW-3
Collection Date: 12/14/2005 12:45:00 PM
Matrix: GROUNDWATER

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed
MICRO-EXTRACTABLE VOLATILE ORGANICS		**SW8011**					Analyst: **MM**
1,2-Dibromoethane	BRL	0.020		µg/L	65587	1	12/19/2005 2:20 PM
Surr: 4-Bromofluorobenzene	120	39.4-142		%REC	65587	1	12/19/2005 2:20 PM
GC ANALYSIS OF GASEOUS SAMPLES		**SOP-RSK 175**					Analyst: **JMZ**
Methane	BRL	4.0		µg/L	65524	1	12/16/2005 2:55 PM
ION SCAN		**SW9056**					Analyst: **CT**
Nitrate	0.94	0.25		mg/L		1	12/15/2005 2:15 PM
ION SCAN		**SW9056**					Analyst: **CT**
Sulfate	2.5	1.0		mg/L		1	12/15/2005 2:15 PM
TOTAL METALS BY ICP/MS		**SW6020**			**(SW3005A)**		Analyst: **SSS**
Lead	2.77	1.00		µg/L	65478	1	12/16/2005 2:48 AM
DISSOLVED METALS BY ICP/MS		**SW6020**					Analyst: **SSS**
Iron	BRL	100		µg/L	65473	1	12/16/2005 6:40 PM
OXYGENATES BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Ethanol	BRL	25	N	µg/L	65572	1	12/19/2005 3:23 PM
Ethyl tert-butyl alcohol	53	5.0	N	µg/L	65572	1	12/19/2005 3:23 PM
Ethyl tert-butyl ether	BRL	5.0	N	µg/L	65572	1	12/19/2005 3:23 PM
Isopropyl ether	BRL	5.0	N	µg/L	65572	1	12/19/2005 3:23 PM
tert-Amyl alcohol	BRL	5.0	N	µg/L	65572	1	12/19/2005 3:23 PM
tert-Amyl methyl ether	BRL	5.0	N	µg/L	65572	1	12/19/2005 3:23 PM
tert-Butyl Alcohol	BRL	5.0	N	µg/L	65572	1	12/19/2005 3:23 PM
tert-Butyl formate	BRL	5.0	N	µg/L	65572	1	12/19/2005 3:23 PM
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**SW8260B**			**(SW5030B)**		Analyst: **MRT**
Methyl tert-butyl ether	BRL	1.0		µg/L	65572	1	12/19/2005 3:23 PM
Benzene	22	1.0		µg/L	65572	1	12/19/2005 3:23 PM
1,2-Dichloroethane	BRL	5.0		µg/L	65572	1	12/19/2005 3:23 PM
Toluene	140	1.0		µg/L	65572	1	12/19/2005 3:23 PM
Ethylbenzene	13	1.0		µg/L	65572	1	12/19/2005 3:23 PM
m,p-Xylene	51	1.0		µg/L	65572	1	12/19/2005 3:23 PM
o-Xylene	42	1.0		µg/L	65572	1	12/19/2005 3:23 PM
Naphthalene	8.4	5.0		µg/L	65572	1	12/19/2005 3:23 PM
Surr: 4-Bromofluorobenzene	92.2	63.7-115		%REC	65572	1	12/19/2005 3:23 PM
Surr: Dibromofluoromethane	86.6	70.4-123		%REC	65572	1	12/19/2005 3:23 PM
Surr: Toluene-d8	91.7	73.4-115		%REC	65572	1	12/19/2005 3:23 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	E	Estimated (Value above quantitation range)
BRL	Below Reporting Limit	S	Surrogate Recovery outside accepted recovery limits
H	Holding times for preparation or analysis exceeded	Narr	See Case Narrative
N	Analyte not NELAC certified	NC	Not Confirmed
B	Analyte detected in the associated Method Blank		

APPENDIX 3
Soil Boring Logs and Monitoring Well Construction Details

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-01	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 30-Aug-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 20'
DRILLING COMPANY: Bear Environmental	BORING: SB-01
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 16'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

	DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
	4				102		Red sandy clay
	8				107		Red sandy clay
	12				222		Red sandy silt
*	16				891		Red silty sand
	20				691		Dark red sandy silt

H2O 16

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-02	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 30-Aug-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 24'
DRILLING COMPANY: Bear Environmental	BORING: SB-02
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 16'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4				0.5		Red sandy clay
8				0.6		Red silty sand
12				2.9		Red / white sand
16				10.7		White silty sand
20				15.8		Red silty sand
* 22				7.9		Red silty sand
24				8.1		Red silty sand
						H2O 16

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-03	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 31-Aug-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 24'
DRILLING COMPANY: Bear Environmental	BORING: SB-03
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 16'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4				0.7		Red sandy clay
8				0.6		Red sandy silt
12				0.4		Red / white sand
16				4.3		White silty sand
20				5.1		Red silty sand
* 22				3.1		Red silty sand
24				2.6		Red silty sand
						H2O 16

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-04	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 31-Aug-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 20'
DRILLING COMPANY: Bear Environmental	BORING: SB-04
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC:
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4				0.7		Red sandy clay
8				0.7		Red silty sand
12				1.1		Red silty sand
16				1.2		Brown silty sand
20				0.5		White rock - REFUSAL
						H2O

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-05	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 31-Aug-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 18'
DRILLING COMPANY: Bear Environmental	BORING: SB-05
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: DRY
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4				0.5		Red sandy clay
8				0.6		Red sandy silt
12				0.9		Brown silty sand
16				1.1		Brown sand w/ rock layers (saprolite)
18				0.9		Rock - REFUSAL
						H2O

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-06	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 31-Aug-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 19'
DRILLING COMPANY: Bear Environmental	BORING: SB-06
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: DRY
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4				0.7		Red sandy clay
8				0.9		Red sandy silt
12				0.8		Brown silty sand
16				1.2		Brown sand w/ rock layers (saprolite)
19				0.7		Rock - REFUSAL
						H2O

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-07	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 31-Aug-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 18'
DRILLING COMPANY: Bear Environmental	BORING: SB-07
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: DRY
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4				1.1		Red sandy clay
8				1.1		Red sandy silt
12				0.9		Brown silty sand
16				1.1		Brown sand w/ rock layers (saprolite)
18				0.9		Rock - REFUSAL
						H2O

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-08	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 31-Aug-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 20'
DRILLING COMPANY: Bear Environmental	BORING: SB-08
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 16'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4			0.7		Red sandy clay
8			3.2		Red sandy silt
12			107		Beige / green silty sand
* 16			498		Red / grey silty sand
20			313		Grey sand
					H2O 16'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-09	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 31-Aug-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 20'
DRILLING COMPANY: Bear Environmental	BORING: SB-09
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 16'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4				0.5		Red sandy clay
8				0.5		Red sandy silt
12				56.8		Brown / green silty sand
* 16				58.2		Grey silty sand
20				112		Grey sand
						H2O 16'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-10	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 31-Aug-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 21'
DRILLING COMPANY: Bear Environmental	BORING: SB-10
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 16'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4				0.8		Red sandy clay
8				0.7		Red sandy silt
12				1.4		Brown silty sand
* 16				4.3		Brown silty sand
20				3.7		Beige silty sand
22				1.9		Red sand - REFUSAL
						H2O 16'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-11	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 31-Aug-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 20'
DRILLING COMPANY: Bear Environmental	BORING: SB-11
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 16'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4				158		Red sandy clay
8				239		Red sandy silt
12				47.4		Red silty sand
* 16				149		Red silty sand
20				101		Beige silty sand
						H2O 16'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-12	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 31-Aug-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 24'
DRILLING COMPANY: Bear Environmental	BORING: SB-12
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 20'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4				1.2		Red sandy clay
8				3.4		Red silty sand
12				15.8		Beige sand
16				21.7		Red / white silty sand
* 20				1.1		Red silty sand
24				19.9		Brown silty sand
						H2O 20'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-13	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 31-Aug-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 24'
DRILLING COMPANY: Bear Environmental	BORING: SB-13
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 20'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4				1.6		Red sandy clay
8				2.1		Red silty sand
12				6.4		Beige sand
16				6.6		Beige silty sand
* 20				3.1		Red silty sand
24				1.9		Brown silty sand
						H2O 20'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-14	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 31-Aug-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 20'
DRILLING COMPANY: Bear Environmental	BORING: SB-14
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 18'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4				0.9		Red sandy clay
8				0.7		Red sandy silt
12				1.8		Red silty sand
16				1.2		Red silty sand
* 18				1.6		Beige silty sand
20				2.4		Beige silty sand
						H2O 18'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-15	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 31-Aug-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 20'
DRILLING COMPANY: Bear Environmental	BORING: SB-15
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 18'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

	DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
	4				0.7		Red sandy clay
	8				0.9		Red sandy silt
	12				1.4		Red sandy silt
	16				1.8		Red silty sand
*	18				1.9		Beige silty sand
	20				2.6		Beige silty sand
							H2O 18b'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-16	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 31-Aug-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 20'
DRILLING COMPANY: Bear Environmental	BORING: SB-16
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 18'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4				1.1		Red sandy clay
8				0.9		Red silty sand
12				1.3		Red silty sand
16				1.4		Red silty sand
* 18				1.9		Beige silty sand
20				2.2		Beige silty sand
						H2O 18b'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-17	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 1-Sep-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 20'
DRILLING COMPANY: Bear Environmental	BORING: SB-17
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 16'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4				1.1		Red sandy clay
8				2.4		Red sandy silt
12				3.8		Red silty sand
* 16				12.4		Beige silty sand
20				21.5		Brown silty sand
						H2O 16'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-18	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 1-Sep-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 20'
DRILLING COMPANY: Bear Environmental	BORING: SB-18
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 16'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4				0.9		Red sandy clay
8				2.8		Red sandy silt
12				3.4		Red silty sand
* 16				5.4		Beige silty sand
20				6.1		Brown silty sand
						H2O 16'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-19	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 1-Sep-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 12'
DRILLING COMPANY: Bear Environmental	BORING: SB-19
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 8'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4				0.3		Brown silty sand
* 8				1.8		Brown silty sand
12				5.7		Brown silty sand
						H2O 8'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-20	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 1-Sep-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 12'
DRILLING COMPANY: Bear Environmental	BORING: SB-20
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 8'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4				0.7		Brown silty sand
* 8				1.4		Brown silty sand
12				1.9		Brown silty sand
						H2O 8'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-21	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 1-Sep-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 12'
DRILLING COMPANY: Bear Environmental	BORING: SB-21
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 8'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4				0.9		Brown silty sand
* 8				1.1		Brown silty sand
12				2.8		Brown silty sand
						H2O 8'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-22	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 1-Sep-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 16'
DRILLING COMPANY: Bear Environmental	BORING: SB-22
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 12'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4				1.8		Red sandy clay
8				2.4		Red silty sand
* 12				16.2		Red silty sand
16				19.7		Brown silty sand
						H2O 12'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-23	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 1-Sep-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 16'
DRILLING COMPANY: Bear Environmental	BORING: SB-23
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 12'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4				1.4		Red sandy clay
8				3.8		Red silty sand
* 12				5.1		Red silty sand
16				6.1		Brown silty sand
						H2O 12'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-24	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 1-Sep-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 16'
DRILLING COMPANY: Bear Environmental	BORING: SB-24
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 12'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
4				1.7		Red sandy clay
8				2.5		Red silty sand
* 12				2.4		Red silty sand
16				4.1		Brown silty sand
						H2O 12'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-25	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 20-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 54'
DRILLING COMPANY: Bear Environmental	BORING: SB-25
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 20'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				0.4		Red sandy clay
10				0.5		Red silty sand
15				0.8		Red silty sand
20				365		Red silty sand
25				138		Red clayey silt - very wet - soupy
30				12.4		Brown silty sand - soupy wet
35				18.2		Dark brown silt sand - soupy wet
40				7.4		Dark brown silty sand w/ saprolite
45				4.1		Red brown silty sand
50				4.4		Red brown silty sand
54				3.8		Hard fine sand - crushed rock - Refusal
						H2O 20'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-26	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 20-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 49'
DRILLING COMPANY: Bear Environmental	BORING: SB-26
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 20'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				70.2		Red sandy clay
10				395		Red silty sand
15				899		Red silt
20				364		Red brown silty sand
25				222		Brown sand- very wet - soupy
30				727		Dark brown sand w/ gravel - soupy wet
35				198		Dark brown silt sand - soupy wet
40				14.8		Dark brown silty sand w/ small gravel
45				12.6		Red brown silty sand
49				6.7		Red brown silty sand
						H2O 20'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No0SB-27	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 20-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 58'
DRILLING COMPANY: Bear Environmental	BORING: SB-27
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 20'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.3		Red silty sand
10				12.5		Red silty sand
15				24.3		Brown silty sand
20				87.3		Brown silty sand
25				218		Red sand
30				268		Red silty sand
35				557		Red / white sand w/ quartz
40				152		Dark brown silty sand
45				21.8		Red brown silty sand
50				5.3		Red brown silty sand
55				4.9		Brown sand w/ gravel
58				4.9		Brown hard sand - refusal
						H2O 20'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-28	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 20-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 25'
DRILLING COMPANY: Bear Environmental	BORING: SB-28
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 16'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.8		Red clayey sand
10				5.4		Red silty sand
15				9.3		Red silty sand
20				14.6		Brown silty sand
25				11.3		Red sand
						H2O 16'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-29	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 20-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 25'
DRILLING COMPANY: Bear Environmental	BORING: SB-29
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 16'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				2.3		Red clayey sand
10				1.7		Red silty sand
15				3.4		Red silty sand
20				4.2		Brown silty sand
25				1.9		Red sand
						H2O 16'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-30	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 20-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 25'
DRILLING COMPANY: Bear Environmental	BORING: SB-30
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 16'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				9.4		Red clayey sand
10				18.4		Red silty sand
15				211		Red silty sand
20				145		Red silty sand
25				38.7		Red sand
						H2O 16'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-31	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 20-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 25'
DRILLING COMPANY: Bear Environmental	BORING: SB-31
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 16'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				2.3		Red silty sand
10				1.9		Red silty sand
15				10.3		Red silty sand
20				6.5		Red silty sand
25				3.1		Brown sand
						H2O 16'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-32	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 20-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 25'
DRILLING COMPANY: Bear Environmental	BORING: SB-32
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 16'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				2.1		Red silty sand
10				2.4		Red silty sand
15				1.7		Red silty sand
20				3.1		Red silty sand
25				2.6		Brown sand
						H2O 16'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-33	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 21-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 20'
DRILLING COMPANY: Bear Environmental	BORING: SB-33
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 14'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				3.5		Red silty sand
10				7.3		Red brown sand
15				142		Red silty sand
20				27.9		Red silty sand
						H2O 14'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-34	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 21-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 20'
DRILLING COMPANY: Bear Environmental	BORING: SB-34
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 14'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				3.9		Red silty sand
10				148		Red brown sand
15				537		Red silty sand
20				241		Red silty sand
						H2O 14'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-35	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 21-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 51'
DRILLING COMPANY: Bear Environmental	BORING: SB-35
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 11'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				44.5		Red silty sand
10				657		Red silty sand
15				918		Red/brown sand - wet
20				747		Brown sand with small gravel - very wet
25				59.3		Red silty sand
30				22.3		Red silty sand - soupy
35				169		Red / white sand with some gravel
40				16.2		Brown sand
45				9.4		Brown sand
50				6.7		Red / brown silty sand - very hard
51				6.3		Refusal
						H2O 11'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-36	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 25-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 62'
DRILLING COMPANY: Bear Environmental	BORING: SB-36
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 11'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				4.2		Red silty sand
10				298		Red silty sand
15				467		Red/brown sand - wet
20				55.6		Red silty sand
25				142		Red brown sand with some small gravel
30				19		Red silty sand - soupy
35				4.6		Red sand
40				4.9		Brown sand
45				4.6		Brown sand
50				6.1		Brown silty sand
55				3.7		Red sand with some gravel
60				4.1		Red/White sand, very hard
62				3.8		Refusal
						H2O 11'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-37	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 25-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 15'
DRILLING COMPANY: Bear Environmental	BORING: SB-37
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 10'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				2.5		Red silty sand
* 10				4.1		Red silty sand
15				2.3		Red silty sand
						H2O 10'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-38	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 25-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 15'
DRILLING COMPANY: Bear Environmental	BORING: SB-38
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 10'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				2.1		Red sandy silt
* 10				2.5		Red silty sand
15				2.3		Red silty sand
						H2O 10'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-39	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 25-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 15'
DRILLING COMPANY: Bear Environmental	BORING: SB-39
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 10'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.9		Red silty sand
* 10				2.8		Red silty sand
15				2.5		Brown sand
						H2O 10'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-40	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 25-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 15'
DRILLING COMPANY: Bear Environmental	BORING: SB-40
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 10'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				2		Red silty sand
* 10				2.3		Red silty sand
15				2.3		Red silty sand
						H2O 10'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-41	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 25-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 15'
DRILLING COMPANY: Bear Environmental	BORING: SB-41
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 10'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				3.1		Red silty sand
* 10				12.7		Red silty sand
15				4.9		Red silty sand
						H2O 10'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-42	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 25-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 15'
DRILLING COMPANY: Bear Environmental	BORING: SB-42
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 10'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.9		Red silty sand
* 10				3.1		Red silty sand
15				2.7		Red silty sand
						H2O 10'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-43	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 31-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 35'
DRILLING COMPANY: Bear Environmental	BORING: SB-43
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 35'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				1.6		Red silty sand
10				2.4		Brown silty sand
15				2.4		Brown silty sand with layers of white sand
20				2.8		Brown/Orange silty sand
25				2.6		Red silty sand
30				1.8		Red silty sand
* 35				2.1		Red silty sand
						H2O 35'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-44	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 31-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 35'
DRILLING COMPANY: Bear Environmental	BORING: SB-44
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 35'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				3		Red silty sand
10				3.3		Red silty sand
15				3.7		Red silty sand
20				4		Brown silty sand
25				3.4		Brown silty sand
30				3.3		White clayey sand with small gravel
* 35				3.1		Red silty sand
						H2O 35'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. SB-45	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 31-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 35'
DRILLING COMPANY: Bear Environmental	BORING: SB-45
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 35'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5				2.8		Red silty sand
10				2.9		Red silty sand
15				3.4		Brown silty sand
20				2.7		Brown silty sand
25				3.4		White clayey sand with small gravel
30				3.3		Red silty sand
* 35				3.1		Brown silty sand - getting very hard
						H2O 35'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-01	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 1-Sep-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 20'
DRILLING COMPANY: Bear Environmental	BORING: GW-01
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 18'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5						
10						
15						
20						DPT groundwater sample collected - no soil samples collected
						H2O 18'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-02	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 1-Sep-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 30'
DRILLING COMPANY: Bear Environmental	BORING: GW-02
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 26'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5						
10						
15						
20						
25						
30						DPT groundwater sample collected - no soil samples collected
						H2O 26'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-03	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 1-Sep-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 24'
DRILLING COMPANY: Bear Environmental	BORING: GW-03
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 20'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5						
10						
15						
20						
24						DPT groundwater sample collected - no soil samples collected
						H2O 20'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-04	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 2-Sep-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 16'
DRILLING COMPANY: Bear Environmental	BORING: GW-04
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 12'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5						
10						
15						
16						DPT groundwater sample collected - no soil samples collected
						H2O 12'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-05	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 2-Sep-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 27'
DRILLING COMPANY: Bear Environmental	BORING: GW-05
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 23'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5						
10						
15						
20						
25						
27						DPT groundwater sample collected - no soil samples collected
						H2O 23'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-06	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 2-Sep-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 18'
DRILLING COMPANY: Bear Environmental	BORING: GW-06
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 14'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5						
10						
15						
18						DPT groundwater sample collected - no soil samples collected
						H2O 14'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-07	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 2-Sep-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 18'
DRILLING COMPANY: Bear Environmental	BORING: GW-07
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 14'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5						
10						
15						
18						DPT groundwater sample collected - no soil samples collected
						H2O 14'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-08	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 20-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 24'
DRILLING COMPANY: Bear Environmental	BORING: GW-08
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 20'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5						
10						
15						
20						
24						DPT groundwater sample collected - no soil samples collected
						H2O 20'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-09	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 20-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 24'
DRILLING COMPANY: Bear Environmental	BORING: GW-09
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 20'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5						
10						
15						
20						
24						DPT groundwater sample collected - no soil samples collected
						H2O 20'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-10	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 20-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 28'
DRILLING COMPANY: Bear Environmental	BORING: GW-10
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 24'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5						
10						
15						
20						
25						
28						DPT groundwater sample collected - no soil samples collected
						H2O 24'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-11	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 21-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 28'
DRILLING COMPANY: Bear Environmental	BORING: GW-11
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 24'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5						
10						
15						
20						
25						
28						DPT groundwater sample collected - no soil samples collected
						H2O 24'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-12	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 21-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 17'
DRILLING COMPANY: Bear Environmental	BORING: GW-12
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 12'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5						
10						
15						
17						DPT groundwater sample collected - no soil samples collected
						H2O 12'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-13	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 21-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 15'
DRILLING COMPANY: Bear Environmental	BORING: GW-13
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 11'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5						
10						
15						DPT groundwater sample collected - no soil samples collected
						H2O 11'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-14	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 21-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 15'
DRILLING COMPANY: Bear Environmental	BORING: GW-14
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 11'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5						
10						
15						DPT groundwater sample collected - no soil samples collected
						H2O 11'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-15	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 21-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 15'
DRILLING COMPANY: Bear Environmental	BORING: GW-15
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 11'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5						
10						
15						DPT groundwater sample collected - no soil samples collected
						H2O 11'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-16	PAGE 1 OF 1

PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 31-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 39'
DRILLING COMPANY: Bear Environmental	BORING: GW-16
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 39'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5						
10						
15						
20						
25						
30						
35						
39						DPT groundwater sample collected - no soil samples collected
						H2O 39'

Consultech Environmental, Inc. 1800 MacLeod Drive, Suite F Lawrenceville, GA 30043	SOIL BORING No. GW-17	PAGE 1 OF 1

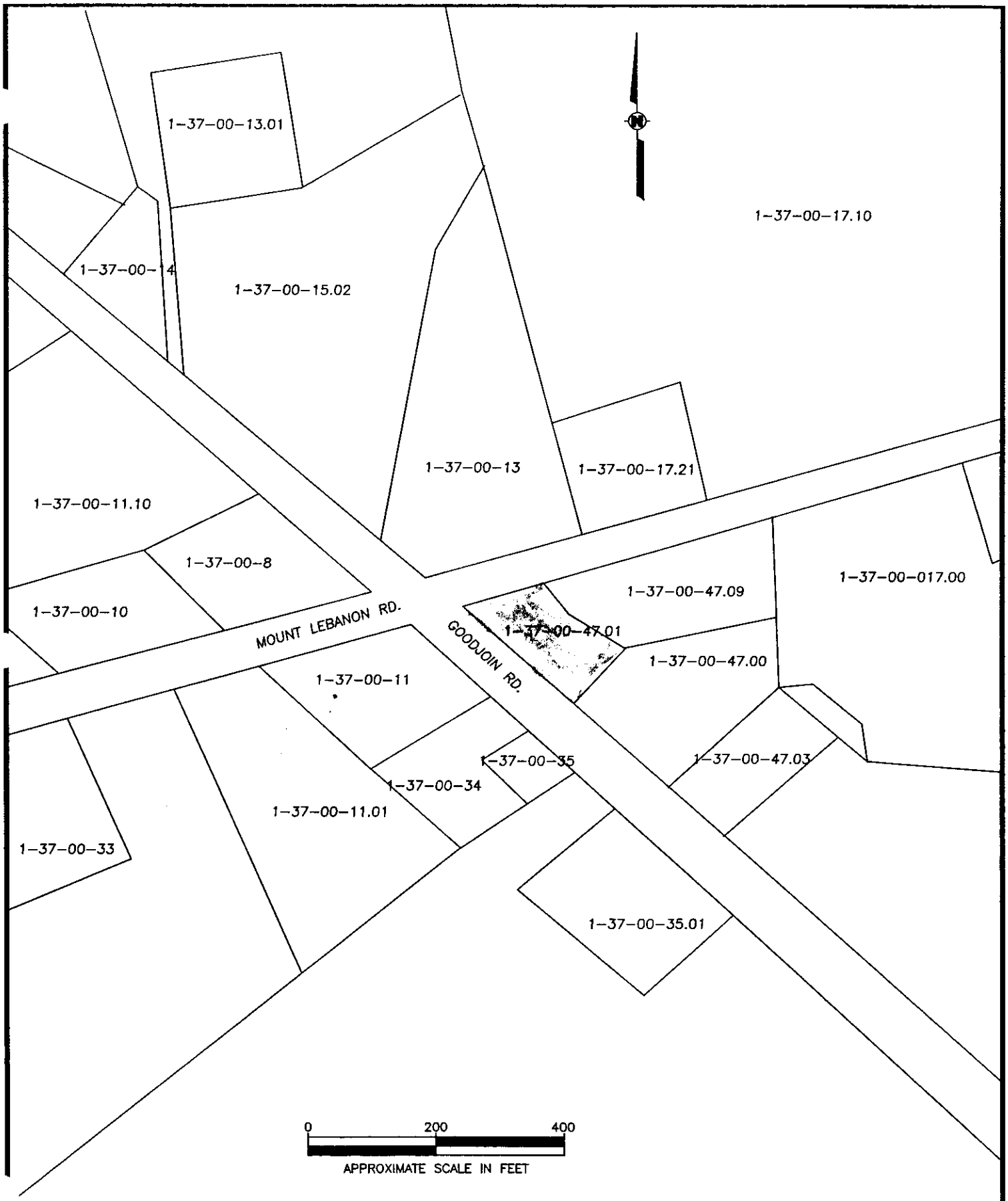
PROJECT: George Souther's Grocery 05-02-015	LOCATION:
DATE INSTALLED: 31-Oct-05	ELEVATION: TOC:
DRILLING METHOD: Direct Push	TOTAL DEPTH OF BORING: 39'
DRILLING COMPANY: Bear Environmental	BORING: GW-17
DRILLER: Kevin Van De Vusse	DEPTH TO WATER FROM TOC: 39'
SAMPLER TYPE: MacroCore	LOGGED BY: KVDV

DEPTH (ft)	SAMPLE	NUMBER	BLOWS /6"	PID / FID (ppm)	USCS (sym)	GEOLOGIC DESCRIPTION / COMMENTS
5						
10						
15						
20						
25						
30						
35						
39						DPT groundwater sample collected - no soil samples collected
						H2O 39'

APPENDIX 2
Tax Map and Surrounding Property Owners

Adjacent Property Owners
George Souther's Grocery – UST # 08650
Campobello, SC
Spartanburg County

Tax map and parcel #		Owner name and address
1-37-00-008.00		Ronnie Joe Sitton 1310 Mt. Lebanon Road Campobello, SC 29322
1-37-00-11.0		Becky Arms 143 Goodjoin Road Landrum, SC 29356 295 Goodjoin Rd. Campobello, SC 29322
1-37-00-013.00		James B. Williams, Jr. 885 Goodjoin Road Campobello, SC 29322
1-37-00-017.00		Earlene P. Lance 207 Lakewood Drive Kannapolis, NC 28081
1-37-00-017.21		Marvin E. & Alma D. Glen 1250 Mt. Lebanon Road Campobello, SC 29322
1-37-00-034.00		Annie L. Frady Wolfe 275 Goodjoin Road Campobello, SC 29322
1-37-00-035.00		Annie L. Frady Wolfe 275 Goodjoin Road Campobello, SC 29322
1-37-00-047.00		James Samuel Bruce P.O. Box 219 Lyman, SC 29365
1-37-00-047.01	**SITE**	George E. Souther 280 Goodjoin Road Campobello, SC 29322
1-37-00-011.01		Jessie C. Wright 137 Turner Barton Rd. Landrum SC 29356
1-37-00-14		Leroy Belcher 330 Goodjoin Rd.
1-37-00-11.10		Jimmy McClain 325 Goodjoin Rd.
1-37-00-17.10		Boyd Belcher 320 Goodjoin Rd.
1-37-00-10		Janice Burnett 1330 Mt. Lebanon Rd.
1-37-00-33		Helyn Sitton 1355 Mt. Lebanon Rd.
1-37-00-35.01		Carolyn Souther 195 Goodjoin Rd.
1-37-00-36.05		George Souther 135 Goodjoin Rd.
1-37-00-47.03		Frankie Bullington 190 Goodjoin Rd.
1-37-00-48.01		Piedmont Rural H2O Co. 198 Goodjoin Rd.



DRAWN: SRC	DATE: 09/06/05	ACCESS MAP	CONSULTECH ENVIRONMENTAL, INC.
UST #: 08650			Environmental Consulting and Engineering © 1999
PROJECT: GEORGE SOUTHER'S GROCERY			Delivering innovative solutions to today's environmental concerns
PROJECT No.: C-05-02-015			
LOCATION: CAMMPOBELLO, SOUTH CAROLINA			

CONSULTECH ENVIRONMENTAL, INC.

Consulting Engineers, Geologists & Scientists

PERMISSION TO ENTER PROPERTY

I, _____, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant _____, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located at _____, for the purpose of performing an environmental assessment, as requested by _____ which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed two to three years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property.

At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Kenneth L Brooke
Company/Client Representative

11/11/05
Date

Agreed and Consented to giving access:

Becky Arms
Property Owner's Signature

Access Denied:

_____
Property Owner's Signature

Becky Arms
Printed Name

Consultech Environmental, Inc.
Telephone Number (678) 377-0400
Fax Number (678) 377-0051

D H E C

ROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

BUREAU OF LAND AND WASTE MANAGEMENT
UNDERGROUND STORAGE TANK PROGRAM
2600 Bull Street
Columbia, SC 29201
Telephone (803) 896-6240

RIGHT OF ENTRY

I, JAMES B. WILLIAMS JR certify that I am the legal owner or the authorized representative for _____ (owner) of the property described below. I have witnessed the planned locations / have been provided a sketch map indicating the location(s) of the work to be performed. Permission is hereby granted to George Souther and/or the South Carolina Department of Health and Environmental Control (SCDHEC) and its agents to enter the referenced property for the following purposes:

Name of Facility (if appropriate) : JB WILLIAMS & SON

Street Address : 300 GOODJOIN RD

City, State, ZIP : CAMPOBELLO SC 29322

1) Drilling of screening points. The work will be properly abandoned upon completion, and no permanent effects shall remain on site.

2) Installing 1 monitoring / recovery well(s). I understand that these wells will remain with the property until cleanup is complete. Additionally, SCDHEC or its agents will access the property at reasonable times for measurement and/or collection of samples. The monitoring wells will be properly abandoned upon completion of remediation activities.

NAME (Please print) : JAMES B. WILLIAMS JR

SIGNATURE James B Williams Jr

WITNESS : Frances N. Williams

DATE _____ Mo 4 Day 22 Year 05

Reference UST Permit #08650

RECEIVED
APR 25 2005
UNDERGROUND STORAGE TANK PROGRAM

KMD

CONSULTECH ENVIRONMENTAL, INC.

Consulting Engineers, Geologists & Scientists

PERMISSION TO ENTER PROPERTY

I, Alma Darlene Glenn hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant **SCDHEC**, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located **Spartanburg County Tax Parcel Number 1-37-00-017.21**, for the purpose of performing an environmental assessment, as requested by **SCDHEC** which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Jessica Guthrie
Company Representative

2-23-06
Date

Consultech Environmental, Inc.
Telephone Number (678) 377-0400
Fax Number (678) 377-0051

Agreed and Consented to giving access:

A Darlene Glenn
Property Owner's Signature

A. Darlene Glenn
Printed Name

Access Denied:

Property Owner's Signature

Printed Name

CONSULTECH ENVIRONMENTAL, INC.

PERMISSION TO ENTER PROPERTY

I, Earlene P. Adams, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant **SCDHEC**, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located **Spartanburg County Tax Parcel Number 1-37-00-017.00**, for the purpose of performing an environmental assessment, as requested by **SCDHEC** which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Cary Evans
Company Representative

4-12-05
Date

Consultech Environmental, Inc.
Telephone Number (678) 377-0400
Fax Number (678) 377-0051

Agreed and Consented to giving access:

Earlene P. Adams
Property Owner's Signature

Earlene P. Adams
Printed Name

Access Denied:

Property Owner's Signature

Printed Name

D H E C

South Carolina Department of Health and Environmental Control

RECEIVED
MAY 0 2 2005
UNDERGROUND STORAGE TANK PROGRAM

BUREAU OF LAND AND WASTE MANAGEMENT
UNDERGROUND STORAGE TANK PROGRAM
2600 Bull Street
Columbia, SC 29201
Telephone (803) 896-6240

RECEIVED
MAY 0 6 2005
UNDERGROUND STORAGE TANK PROGRAM

RIGHT OF ENTRY

I, Tina Wolfe certify that I am the ~~legal owner~~ or the authorized representative for Annie L. Fredy Wolfe (owner) of the property described below. I have witnessed the planned locations / have been provided a sketch map indicating the location(s) of the work to be performed. Permission is hereby granted to George Souther and/or the South Carolina Department of Health and Environmental Control (SCDHEC) and its agents to enter the referenced property for the following purposes:

Name of Facility (if appropriate) : Residence

Street Address : 275 Goodyear Rd.

City, State, ZIP : Campobello, S.C. 29322

1) Drilling of screening points. The work will be properly abandoned upon completion, and no permanent effects shall remain on site.

2) Installing _____ monitoring / recovery well(s). I understand that these wells will remain with the property until cleanup is complete. Additionally, SCDHEC or its agents will access the property at reasonable times for measurement and/or collection of samples. The monitoring wells will be properly abandoned upon completion of remediation activities.

NAME (Please print) : Tina Wolfe

SIGNATURE : Tina Wolfe

WITNESS : _____

DATE : 5 Mo 04 Day 2005 Year

Reference UST Permit #08650

015

Kmd

CONSULTECH ENVIRONMENTAL, INC.

Consulting Engineers, Geologists & Scientists

PERMISSION TO ENTER PROPERTY

I, S. BRUCE JAMES, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant **SCDHEC**, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located **Spartanburg County Tax Parcel Number 1-37-00-047.00**, for the purpose of performing an environmental assessment, as requested by **SCDHEC** which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

JESSICA GUTHRIE
Company Representative

2-22-05
Date

Consultech Environmental, Inc.
Telephone Number (678) 377-0400
Fax Number (678) 377-0051

Agreed and Consented to giving access:

S. Bruce James
Property Owner's Signature

S. BRUCE JAMES
Printed Name

Access Denied:

Property Owner's Signature

Printed Name

CONSULTECH ENVIRONMENTAL, INC.

Consulting Engineers, Geologists & Scientists

PERMISSION TO ENTER PROPERTY

I, _____, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant **SCDHEC**, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located **Spartanburg County Tax Parcel Number 1-37-00-047.01**, for the purpose of performing an environmental assessment, as requested by **SCDHEC** which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Jessica Guthrie
Company Representative

3-22-25
Date

Consultech Environmental, Inc.
Telephone Number (678) 377-0400
Fax Number (678) 377-0051

Agreed and Consented to giving access:

George E. Southern
Property Owner's Signature

George E. Southern
Printed Name

Access Denied:

_____
Property Owner's Signature

_____
Printed Name

CONSULTECH ENVIRONMENTAL, INC.

PERMISSION TO ENTER PROPERTY

D.P.O.A. Brenda A Cox

I, Mrs. Jessie C Wright, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant **SCDHEC**, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located **Spartanburg County Tax Parcel Number 1-37-00-011.01** for the purpose of performing an environmental assessment, as requested by **SCDHEC** which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

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The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Carey Evans
Company Representative

7-27-05
Date

Consultech Environmental, Inc.
Telephone Number (678) 377-0400
Fax Number (678) 377-0051
C-015

08-02-05

Agreed and Consented to giving access:

Jessie C. Wright D.P.O.A. Brenda A Cox
Property Owner's Signature

JESSIE C. WRIGHT By Brenda A Cox
Printed Name

(864) 895-5795

Access Denied:

Property Owner's Signature

Printed Name

CONSULTECH ENVIRONMENTAL, INC.

PERMISSION TO ENTER PROPERTY

I, Boyd Belcher, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant **SCDHEC**, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located **Spartanburg County Tax Parcel Number 1-37-00-17.10, 1-37-00-15.02, 1-37-00-13.01**, for the purpose of performing an environmental assessment, as requested by **SCDHEC** which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

Access to the monitoring well will be needed for a time period not likely to exceed three to five years after well installation has been completed. The property owner will be notified at least 48 hours in advance of any planned activities on the property. At any time the property owner may contact Consultech if there are any questions or concerns about work performed on the property.

The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Carey Evans
Company Representative

9-9-05
Date

Consultech Environmental, Inc.
Telephone Number (678) 377-0400
Fax Number (678) 377-0051
C-015

Agreed and Consented to giving access:

Boyd Belcher
Property Owner's Signature

BOYD BELCHER
Printed Name

Access Denied:

_____
Property Owner's Signature

_____
Printed Name

CONSULTECH ENVIRONMENTAL, INC.

PERMISSION TO ENTER PROPERTY

I, _____, hereby certify that I am the owner of record or otherwise have the legal right to grant entry and access to the property for the purpose described below ("Owner") and do hereby grant **SCDHEC**, its consulting firm, Consultech Environmental, Inc. (Consultech) and its agents, employees and subcontractors, and assigns the right to enter upon the property located **Spartanburg County Tax Parcel Number 1-37-00-35.01**, for the purpose of performing an environmental assessment, as requested by **SCDHEC** which will include the following categories of work:

- Drilling of soil test boring(s);
- Installation of groundwater monitoring well(s);
- Measuring depth to groundwater, about once every three months;
- Collection of groundwater samples, about once every three months; or
- Maintenance of the monitoring well(s).

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The Permission to Enter Property is effective upon execution of this document.

This Permission to Enter Property is granted with consideration of Consultech making reasonable restoration to the property resulting from Consultech's activities on the property.

Gary Evans
Company Representative

9-9-05
Date

Consultech Environmental, Inc.
Telephone Number (678) 377-0400
Fax Number (678) 377-0051
C-015

Agreed and Consented to giving access:

Carolyn Sexton
Property Owner's Signature

Carolyn Sexton
Printed Name

Access Denied:

_____
Property Owner's Signature

_____
Printed Name

Microsoft Office Excel 97-2003 Worksheet
C-05-02-015 Table 2.xls
Thursday, January 01, 1970 12:00:00 AM

Microsoft Office Excel 97-2003 Worksheet
C-05-02-015 Table 3.xls
Thursday, January 01, 1970 12:00:00 AM

Microsoft Office Excel 97-2003 Worksheet
C-05-02-015 Table 4.xls
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Microsoft Office Excel 97-2003 Worksheet
C-05-02-015 Table 5.xls
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Microsoft Office Excel 97-2003 Worksheet
C-05-02-015 Table 6.xls
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Microsoft Office Excel 97-2003 Worksheet
C-05-02-015 Table 7.xls
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Microsoft Office Excel 97-2003 Worksheet
C-05-02-015table 1.xls
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Microsoft Office Word 97 - 2003 Document
WELL RECORD 1903 DW-1.doc
Monday, August 24, 2015 1:07:39 PM

Microsoft Office Word 97 - 2003 Document
WELL RECORD 1903 DW-2.doc
Thursday, January 01, 1970 12:00:00 AM

Microsoft Office Word 97 - 2003 Document
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Microsoft Office Word 97 - 2003 Document
WELL RECORD 1903 MW-43.doc
Thursday, January 01, 1970 12:00:00 AM

05-02-015ste.bak
Thursday, January 01, 1970 12:00:00 AM

05-02-015ste.dwg
Thursday, January 01, 1970 12:00:00 AM

FATAL ERROR: Unhandled Access Violation Reading 0x0040 Exception at 6e5336h

10/26/2005 at 15:10:22.881 Drawing:

```
[Main]
DumpEntries=1
[AcadCrashDump1]
ExeTimeDateStamp=0x3AE3DE35
CrashTimeDateStamp=0x435FD495
acadVer=15.06
WinVer=0xA280105
DumpType=Exception
ExceptionCode=0xC0000005
ExceptionFlags=0x0
ExceptionAddress=0x6E5336
NumberParameters=0x2
ExceptionInformation0=0x0
ExceptionInformation1=0x40
ContextFlags=0x1003F
SegGs=0x0
SegFs=0x3B
SegEs=0x23
SegDs=0x23
Edi=0xA882EC
Esi=0x0
Ebx=0x0
Edx=0x30608
Ecx=0x0
Eax=0x0
Ebp=0x13FA24
Eip=0x6E5336
SegCs=0x1B
EFlags=0x210246
Esp=0x13FA20
SegSs=0x23
ReferenceAddr=0x91D7C4
ReferenceName=_WinMain@16
StackWalk0=6D8029,2E4336,1,SymExport,PreviewInWnd+636,C:\Program Files\ACAD2000\acad.exe
StackWalk1=73DD9A49,2D7029,1,SymExport,setUndoForLayoutTabs+5709,C:\Program Files\ACAD2000\acad.exe
StackWalk2=6F0B91,8A49,1,SymExport,Ordinal4413+E3,C:\WINXP\system32\MFC42.DLL
StackWalk3=6F0A25,2EFB91,1,SymExport,GetWaitingFileName+2151,C:\Program Files\ACAD2000\acad.exe
StackWalk4=73DD1B9B,2EFA25,1,SymExport,GetWaitingFileName+1FE5,C:\Program Files\ACAD2000\acad.exe
StackWalk5=6F10F4,B9B,1,SymExport,Ordinal6374+24,C:\WINXP\system32\MFC42.DLL
StackWalk6=73DD1B05,2F00F4,1,SymExport,GetWaitingFileName+26B4,C:\Program Files\ACAD2000\acad.exe
StackWalk7=73DD1A58,B05,1,SymExport,Ordinal1109+91,C:\WINXP\system32\MFC42.DLL
StackWalk8=73E6847D,A58,1,SymExport,Ordinal1578+36,C:\WINXP\system32\MFC42.DLL
StackWalk9=77D48734,9747D,1,SymExport,Ordinal1579+39,C:\WINXP\system32\MFC42.DLL
StackWalk10=77D48816,7734,1,SymExport,GetDC+6D,C:\WINXP\system32\USER32.dll
StackWalk11=77D489CD,7816,1,SymExport,GetDC+14F,C:\WINXP\system32\USER32.dll
StackWalk12=77D496C7,79CD,1,SymExport,GetWindowLongW+127,C:\WINXP\system32\USER32.dll
StackWalk13=73DD125A,86C7,1,SymExport,DispatchMessageA+F,C:\WINXP\system32\USER32.dll
StackWalk14=73DDCF95,25A,1,SymExport,Ordinal5307+3C,C:\WINXP\system32\MFC42.DLL
StackWalk15=7C816D4F,BF95,1,SymExport,Ordinal1576+6A,C:\WINXP\system32\MFC42.DLL
StackWalk16=0,15D4F,1,SymExport,RegisterWaitForInputIdle+49,C:\WINXP\system32\kernel32.dll
```

CROSSECT-015.bak
Thursday, January 01, 1970 12:00:00 AM

CROSSECT-015.dwg
Thursday, January 01, 1970 12:00:00 AM

CROSSECT-015B.bak
Thursday, January 01, 1970 12:00:00 AM

CROSSECT-015B.dwg
Thursday, January 01, 1970 12:00:00 AM

DOT-05-02-015.bak
Thursday, January 01, 1970 12:00:00 AM

DOT-05-02-015.dwg
Thursday, January 01, 1970 12:00:00 AM

C:\AutoCAD\04-12\04-12-008-009\04-12-008-009.dwg,Model,2/28/2005 3:44:02 PM,DDean,\\CTSSERVER\SavColor
C:\AutoCAD\04-12\04-12-008-009\04-12-008-009.dwg,Model,2/28/2005 3:52:11 PM,DDean,\\CTSSERVER\SavColor
C:\AutoCAD\04-12\04-12-008-009\04-12-008-009.dwg,Model,2/28/2005 3:53:24 PM,DDean,\\CTSSERVER\SavColor
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C:\AutoCAD\04-11\04-11-002\04-11-002.dwg,Model,2/28/2005 4:15:24 PM,DDean,\\CTSSERVER\SavColor,11x17,1
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C:\ADDY\AutoCAD\05-02\05-02-015\05-02-015ste.dwg,Model,10/26/2005 1:20:17 PM,DDean,\\CTSSERVER\SavColo
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C:\ADDY\AutoCAD\C-1200-1250\C-1200\REC-1200ste.dwg,Model,10/26/2005 1:30:25 PM,DDean,\\CTSSERVER\SavCo
C:\ADDY\AutoCAD\C1100-1150\C-1139\RE-C-1139ste.dwg,Model,10/26/2005 2:52:45 PM,DDean,\\CTSSERVER\SavCo
C:\ADDY\AutoCAD\05-02\05-02-015\05-02-015ste.dwg,Model,10/28/2005 1:51:05 PM,DDean,\\CTSSERVER\SavColo
C:\ADDY\AutoCAD\05-02\05-02-015\05-02-015ste.dwg,Model,10/28/2005 1:51:58 PM,DDean,\\CTSSERVER\SavColo
C:\ADDY\AutoCAD\05-07\05-07-034.dwg,Model,10/28/2005 2:36:19 PM,DDean,\\CTSSERVER\SavColor,Tabloid,1:0
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C:\ADDY\AutoCAD\C05-11\C05-11-201\05-11-201C.dwg,Model,11/10/2005 1:58:58 PM,DDean,\\CTSSERVER\SavColo
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C:\ADDY\AutoCAD\05-02\05-02-015\CROSSECT-015.dwg,Model,12/22/2005 12:22:16 PM,DDean,\\CTSSERVER\SavinC
C:\ADDY\AutoCAD\05-02\05-02-015\CROSSECT-015B.dwg,Model,12/22/2005 12:22:32 PM,DDean,\\CTSSERVER\Savin
C:\ADDY\AutoCAD\05-11\05-11-201\05-11-201A.dwg,Model,12/22/2005 5:24:56 PM,DDean,\\CTSSERVER\SavinColo

Document Receipt Information

☐ Hard Copy ☒ CD ☐ Email

Date Received 6/11/2015

Permit Number 08650

Project Manager Mike Rivers

Name of Contractor BLE

UST Certification Number

Docket Number 33 tech

Scanned

Report of GW Sampling - April 2015

BUNNELL-LAMMONS ENGINEERING, INC.

GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

REPORT OF COMPREHENSIVE GROUNDWATER SAMPLING EVENT – APRIL 2015

GEORGE SOUTHER'S GROCERY
280 GOODJOIN ROAD
CAMPOBELLO, SPARTANBURG COUNTY, SOUTH CAROLINA
UST PERMIT #08650; COST AGREEMENT #49434

Prepared For

Mr. George E. Souther
280 Goodjoin Road
Campobello, South Carolina 29322

Prepared By

Bunnell-Lammons Engineering, Inc.
6004 Ponders Court
Greenville, South Carolina 29615
SCDHEC Certified Contractor No. UCC-0010

June 8, 2015

BLE Project Number J14-7051-06

BUNNELL-LAMMONS ENGINEERING, INC.
GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

June 8, 2015

South Carolina Department of Health and Environmental Control
Bureau of Land and Waste Management
Underground Storage Tank Division
2600 Bull Street
Columbia, South Carolina 29201-1708

Attention: Mr. Michael Rivers, Hydrogeologist

Subject: **Report of Comprehensive Groundwater Sampling Event – April 2015**
George Souther's Grocery
280 Goodjoin Road
Campobello, Spartanburg County, South Carolina
UST Permit #08650; CA #49434
BLE Project No. J14-7051-06

Dear Mr. Rivers:

On behalf of Mr. George E. Souther, Bunnell-Lammons Engineering, Inc. (BLE) has completed a comprehensive groundwater sampling event at the subject site. This scope of work was performed in response to a South Carolina Department of Health and Environmental Control (SCDHEC) directive letter dated February 24, 2015 and is in accordance with BLE's Site Specific Work Plan (SSWP) submitted on February 3, 2015. This report describes the work performed and presents the results obtained, along with our comments and recommendations. Please do not hesitate to contact us if you have any questions concerning this report.

Sincerely,

BUNNELL-LAMMONS ENGINEERING, INC.

Trevor J. Benton, P.G.
Senior Hydrogeologist
Registered, South Carolina No. 2395

Thomas L. Lammons, P.G., CHMM
Principal Hydrogeologist
Registered, South Carolina No. 893

cc: Mr. George E. Souther, 280 Goodjoin Road, Campobello, SC 29322;
Mrs. Francis Williams, 885 Goodjoin Road, Campobello, SC 29322.

6004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615

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BACKGROUND INFORMATION

The subject property is located at the intersection of Goodjoin Road and Mt. Lebanon Road in Campobello, South Carolina (Figure 1). The site currently operates as a petroleum retail facility and convenience store. Structures on the property consist of a convenience store/office building, a canopy, fuel dispenser islands, and four active underground storage tanks registered under UST Permit #14391. Adjacent parcels primarily consist of residential properties and woodlands.

In December 1991, one 550-gallon kerosene UST, one 3,000-gallon diesel UST, one 4,000-gallon gasoline UST, and three 3,000-gallon gasoline USTs were abandoned by removal (under prior UST permit #08650). The tanks were replaced by one 2,000-gallon kerosene UST, one 2,000-gallon diesel UST, one 6,000-gallon gasoline UST, and one 10,000-gallon gasoline UST (under new UST permit #14391) and are currently in operation today. In response to a release of petroleum contaminants detected during the UST closure, 64 groundwater monitoring/recovery wells have been installed to assess the horizontal and vertical extent of petroleum hydrocarbons in the water table aquifer. Additionally, free-phase petroleum product has been detected in several monitoring and recovery wells at the facility over the years; including in a former water supply well converted to recovery well (RW-2), which is located in the crawl space of the store. RW-2 has been plumbed to the exterior of the facility, where free-product removal can be conducted via aggressive fluid vapor recovery (AFVR).

In an effort to determine what risk the petroleum release may pose to human health and the environment, the SCDHEC requested an updated comprehensive groundwater sampling event be conducted at the facility. Details of the groundwater sampling event and our findings are provided herein.

GROUNDWATER SAMPLING

Date(s) Sampled:	April 27-29, 2015	
Total Number of Wells Associated with Site:	64	MW-01, MW-02, MW-02R, MW-03, MW-03R, MW-04, MW-05, MW-06, MW-06R,

		MW-07 through MW-10, MW-10R, MW-11, MW-12, MW-13, MW-13R, MW-14, MW-14R, MW-15, MW-15R, MW-16, MW-17, MW-18, MW-18R, MW-19 through MW-45, PW-01 through PW-03, DW-01 through DW-06, RW-01, and RW-02
Total Number of Wells Sampled:	49	MW-01, MW-02R, MW-03, MW-03R, MW-04, MW-06R, MW-07, MW-09, MW-10R, MW-11, MW-12, MW-13R, MW-14R, MW-15R, MW-16, MW-18R, MW-19 through MW-31, MW-33 through MW-43, PW-01, DW-01 through DW-06, RW-01, and RW-02
Total Number of Wells NOT Sampled:	15	MW-02, PW-02, and PW-03 (Dry); MW-05, MW-08, and MW-32 (Free Product); MW-06, MW-10, MW-13, MW-14, MW-15, MW-17, MW-18, MW-44, and MW-45 (Not Located)
Surface Water Location Sampled	0	None Associated
QA / QC Samples	8	3 Duplicate Samples (MW-02R DUP, MW-07 DUP, and MW-09 DUP), 3 Field Blanks, and 2 Trip Blanks
Total Purge Volume (gallons)	390	Disposal Manifest Included in Appendix A
Analytical Laboratory	Shealy Environmental Services, Inc.	
Analytical Methods	EPA Method 8260B and EPA Method 8011	
Free-Phase Petroleum Product	MW-05 (0.21-Feet FP), MW-08 (0.03-Feet FP), and MW-32 (0.40-Feet FP)	
Contaminants Exceeding Risk Based Screening Level Concentrations	Benzene, Toluene, Ethylbenzene, Xylenes, Methyl-Tert-Butyl-Ether (MTBE), Naphthalene, 1,2-Dibromoethane (EDB), 1,2-Dichloroethane (1,2-DCA), Di-isopropyl	

	Ether (IPE), Tert-Amyl Alcohol (TAA), and Tert-Butyl Alcohol (TBA)
Groundwater Level Measurements	See Table 1
Groundwater Sampling Logs and Procedures	See Appendix B
Laboratory Analytical Summary	See Table 2A and Table 2B
Laboratory Analytical Results	See Appendix C
Potentiometric Map	See Figure 2
Chemical of Concern (COC) Map	See Figure 3

CONCLUSIONS AND RECOMMENDATIONS

Based on current laboratory analytical results the extent of the petroleum contaminant plume appears to be substantially defined in the horizontal and vertical direction; however, free-phase petroleum product was present in monitoring wells MW-05 (0.21 Feet), MW-08 (0.03 Feet), and MW-32 (0.40 Feet) during the current scope of work. Additionally, near free-phase petroleum COC concentrations were detected in monitoring wells MW-01, MW-02R, MW-03, MW-03R, MW-07, MW-09, and RW-02 during sampling processes. Therefore, we recommend a series of four 96-Hour Aggressive Fluid Vapor Recovery (AFVR) events be conducted on these wells in order to: 1) remove residual free-phase petroleum product from the area around the extraction point, 2) remove petroleum hydrocarbon vapors from the unsaturated zone, and 3) remove petroleum impacted groundwater from the subsurface. We recommend the AFVRs be performed in the following well combinations:

- Event 1: MW-07;
- Event 2: MW-08 and MW-32;
- Event 3: MW-01, MW-03, MW-03R, and MW-05;
- Event 4: MW-2R, MW-09, and RW-02.

Approximately thirty days after completion of the last AFVR event, BLE recommends a gauging event of the monitoring wells to evaluate the effectiveness of the AFVR events.

QUALIFICATION OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessments of this type. Our evaluation of site conditions has been based on our understanding of the site and project information and the data obtained in our exploration.

This report has been prepared on behalf of and exclusively for the use of Mr. George E. Souther. This report and the findings contained herein shall not, in whole or in part, be used or relied upon by any other party without BLE's prior written consent. Any unauthorized use or distribution of BLE's work shall be at third parties risk and without liability to BLE.

TABLES

TABLE 1

Monitoring Well Construction and Elevation Data
George Souther's Grocery
Campobello, Spartanburg County, South Carolina
SCDHEC UST Permit #08650; Cost Agreement #49434
BLE Project Number J14-7051-06

Monitoring Well	Date Measured	TOC Elevation	Ground Elevation	Free Product Thickness	Groundwater Depth BTOC	Groundwater Elevation	Total Well Depth	Screened Interval Depth	Screened Interval Elevation
08650-MW01	8/30/2002	96.48	96.71		Well Dry		17.0	7.0 - 17.0	89.7 - 79.7
	7/17/2003			---	10.98	85.50			
	8/31/2005			---	12.02	84.46			
	12/12/2005			---	14.58	81.90			
	4/27/2015			**Sheen**	12.74	83.74			
08650-MW02	8/30/2002	99.93	100.32	---	17.45	82.48	17.0	7.0 - 17.0	93.3 - 83.3
	7/17/2003			---	15.08	84.85			
	8/31/2005			---	16.00	83.93			
	12/12/2005				Well Dry				
	4/27/2015			---	16.90	83.03			
08650-MW02R	4/27/2015	100.05	100.30	**Sheen**	16.92	83.13	28.1	17.9 - 27.9	82.4 - 72.4
08650-MW03	8/30/2002	97.03	97.20		Well Dry		19.0	9.0 - 19.0	88.2 - 78.2
	7/17/2003			---	12.09	84.94			
	8/31/2005			---	13.02	84.01			
	12/12/2005			---	15.65	81.38			
	4/27/2015			**Sheen**	13.63	83.40			
08650-MW03R	4/27/2015	96.84	97.10	**Sheen**	13.53	83.31	27.2	17.0 - 27.0	80.1 - 70.1
08650-MW04	8/30/2002	89.54	89.69	---	17.71	71.83	19.0	9.0 - 19.0	80.7 - 70.7
	7/17/2003			---	6.74	82.80			
	8/31/2005			---	8.28	81.26			
	12/12/2005			---	10.61	78.93			
	4/27/2015			---	5.81	83.73			
08650-MW05	8/30/2002	93.55	93.80	**0.21**	19.01	74.54	19.5	9.5 - 19.5	84.3 - 74.3
	7/17/2003			---	9.09	84.46			
	8/31/2005			**0.21**	10.00	83.55			
	12/12/2005			**0.33**	12.23	81.32			
	4/27/2015			**0.21**	10.24	83.31			
08650-MW06	8/30/2002	NA	NA	**0.18**	16.82	NA	NA	NA - NA	NA - NA
	7/17/2003				Not Located				
	8/31/2005				Not Located				
08650-MW06R	12/13/2005	92.03	92.28	---	11.18	80.85	20.0	5.0 - 20.0	87.3 - 72.3
	4/27/2015			---	8.17	83.86			
08650-MW07	8/30/2002	95.39	95.71		Well Dry		19.0	9.0 - 19.0	86.7 - 76.7
	7/17/2003			---	9.85	85.54			
	8/31/2005			---	10.87	84.52			
	12/14/2005			---	13.40	81.99			
	4/27/2015			**Sheen**	11.19	84.20			
08650-MW08	8/30/2002	99.71	100.19		Well Dry		18.0	8.0 - 18.0	92.2 - 82.2
	7/17/2003			---	13.90	85.81			
	8/31/2005			---	14.94	84.77			
	12/12/2005			---	17.86	81.85			
	4/27/2015			**0.03**	16.81	82.90			
08650-MW09	8/30/2002	99.95	100.36		Well Dry		24.0	14.0 - 24.0	86.4 - 76.4
	7/17/2003			---	15.59	84.36			
	8/31/2005			---	16.36	83.59			
	12/12/2005			---	19.03	80.92			
	4/27/2015			**Sheen**	17.12	82.83			
08650-MW10	8/30/2002	NA	NA	---	15.65	NA	17.0	7.0 - 17.0	NA - NA
	7/17/2003			---	3.68	NA			
	8/31/2005				Not Located				
08650-MW10R	12/12/2005	89.81	90.15	---	5.45	84.36	17.0	2.0 - 17.0	88.2 - 73.2
	4/27/2015			---	5.08	84.73			
08650-MW11	8/30/2002	96.78	96.91	---	22.15	74.63	23.0	13.0 - 23.0	83.9 - 73.9
	7/17/2003			---	10.00	86.78			
	8/31/2005			---	11.61	85.17			
	12/12/2005			---	14.69	82.09			
	4/27/2015			---	11.90	84.88			
08650-MW12	8/30/2002	94.45	94.91	---	23.27	71.18	25.0	15.0 - 25.0	79.9 - 69.9
	7/17/2003			---	11.77	82.68			
	8/31/2005			---	12.83	81.62			
	12/12/2005			---	15.93	78.52			
	4/27/2015			---	12.50	81.95			
08650-MW-13	8/30/2002	NA	NA		Well Dry		NA	NA NA	NA - NA
	7/17/2003			---	4.13	NA			
	8/31/2005				Not Located				
08650-MW13R	12/12/2005	93.21	93.62	---	3.21	90.00	17.0	2.0 - 17.0	91.6 - 76.6
	4/27/2015			---	8.53	84.68			
08650-MW14	8/30/2002	NA	NA	---	13.53	NA	NA	NA NA	NA - NA
	7/17/2003			---	3.75	NA			
	8/31/2005				Not Located				
08650-MW14R	12/13/2005	85.34	85.60	---	3.21	82.13	25.0	10.0 - 25.0	75.6 - 60.6
	4/27/2015			---	1.92	83.42			
08650-MW15	8/30/2002	NA	NA	---	12.68	NA	NA	NA NA	NA - NA
	7/17/2003			---	2.74	NA			
	8/31/2005				Not Located				
08650-MW15R	12/14/2005	90.66	91.26	---	7.70	82.96	17.0	2.0 - 17.0	89.3 - 74.3
	4/27/2015			---	7.27	83.39			
08650-MW16	8/30/2002	99.04	99.41	---	23.88	75.16	35.0	15.0 - 35.0	84.4 - 64.4
	7/17/2003			---	12.22	86.82			
	8/31/2005			---	13.70	85.34			
	12/12/2005			---	16.67	82.37			
	4/27/2015			---	14.12	84.92			
08650-MW17	8/30/2002	93.43	93.91	---	21.73	71.70	35.0	15.0 - 35.0	78.9 - 58.9
	7/17/2003			---	9.80	83.63			
	8/31/2005			---	11.77	81.66			
	12/12/2005			---	13.16	80.27			
	4/27/2015				Not Located				
08650-MW18	8/30/2002	NA	NA	---	29.62	NA	NA	NA NA	NA - NA
	7/17/2003			---	18.37	NA			
	8/31/2005				Not Located				
08650-MW18R	12/12/2005	107.18	107.50	---	26.89	80.29	30.0	15.0 - 30.0	92.5 - 77.5
	4/27/2015			---	25.82	81.36			
08650-MW19	8/30/2002	104.66	105.07	---	31.10	73.56	40.0	20.0 - 40.0	85.1 - 65.1
	7/17/2003			---	19.22	85.44			
	8/31/2005			---	20.72	83.94			
	12/12/2005			---	23.27	81.39			
	4/27/2015			---	21.67	82.99			
08650-MW20	8/30/2002	106.96	107.50	---	32.96	74.00	36.0	16.0 - 36.0	91.5 - 71.5
	7/17/2003			---	20.95	86.01			
	8/31/2005			---	22.74	84.22			
	12/12/2005			---	25.29	81.67			
	4/27/2015			---	23.52	83.44			
08650-MW21	7/17/2003	88.90	89.43	---	4.76	84.14	20.0	5.0 - 20.0	84.4 - 69.4
	8/31/2005			---	6.01	82.89			
	12/12/2005			---	6.26	82.64			
	4/27/2015			---	5.95	82.95			

Prepared By: RAD
Checked By: TJB

TABLE 1

Monitoring Well Construction and Elevation Data
George Souther's Grocery
Campobello, Spartanburg County, South Carolina
SCDHEC UST Permit #08650; Cost Agreement #49434
BLE Project Number J14-7051-06

Monitoring Well	Date Measured	TOC Elevation	Ground Elevation	Free Product Thickness	Groundwater Depth BTOC	Groundwater Elevation	Total Well Depth	Screened Interval Depth	Screened Interval Elevation
08650-MW22	7/17/2003	92.65	93.27	---	6.60	86.05	20.0	5.0 - 20.0	88.3 - 73.3
	8/31/2005			---	8.24	84.41			
	12/12/2005			---	8.37	84.28			
	4/27/2015			---	7.21	85.44			
08650-MW23	7/17/2003	99.52	99.71	---	12.69	86.83	23.0	8.0 - 23.0	91.7 - 76.7
	8/31/2005			---	14.13	85.39			
	12/12/2005			---	16.70	82.82			
	4/27/2015			---	14.53	84.99			
08650-MW24	7/17/2003	89.25	89.54	---	5.74	83.51	20.0	5.0 - 20.0	84.5 - 69.5
	8/31/2005			---	7.42	81.84			
	12/12/2005			---	7.03	82.22			
	4/27/2015			---	6.43	82.82			
08650-MW25	7/17/2003	90.56	90.78	---	5.37	85.19	20.0	5.0 - 20.0	85.8 - 70.8
	8/31/2005			---	8.30	82.26			
	12/12/2005			---	7.99	82.57			
	4/27/2015			---	6.54	84.02			
08650-MW26	12/13/2005	89.33	89.66	---	7.54	81.79	17.0	2.0 - 17.0	87.7 - 72.7
	4/27/2015			---	2.49	86.84			
08650-MW27	12/13/2005	91.99	92.31	---	11.24	80.75	17.0	2.0 - 17.0	90.3 - 75.3
	4/27/2015			---	2.89	89.10			
08650-MW28	12/13/2005	93.34	93.68	---	12.61	80.73	25.0	10.0 - 25.0	83.7 - 68.7
	4/27/2015			---	10.31	83.03			
08650-MW29	12/13/2005	99.80	100.18	---	21.34	78.46	30.0	15.0 - 30.0	85.2 - 70.2
	4/27/2015			---	17.67	82.13			
08650-MW30	12/13/2005	103.63	103.99	---	26.40	77.23	30.0	15.0 - 30.0	89.0 - 74.0
	4/27/2015			---	24.97	78.66			
08650-MW31	12/13/2005	101.12	101.33	---	23.01	78.11	30.0	15.0 - 30.0	86.3 - 71.3
	4/27/2015			---	21.14	79.98			
08650-MW32	12/13/2005	101.71	102.13	---	21.34	80.37	30.0	15.0 - 30.0	87.1 - 72.1
	4/27/2015			**0.40**	19.09	82.62			
08650-MW33	12/13/2005	109.18	109.38	---	34.72	74.46	40.0	25.0 - 40.0	84.4 - 69.4
	4/27/2015			---	24.10	85.08			
08650-MW34	12/13/2005	106.61	106.90	Well Dry			40.0	25.0 - 40.0	81.9 - 66.9
	4/5/2006			---	26.06	80.55			
	4/27/2015			---	20.04	86.57			
08650-MW35	12/13/2005	104.51	104.81	---	21.04	83.47	30.0	15.0 - 30.0	89.8 - 74.8
	4/27/2015			---	19.39	85.12			
08650-MW36	12/14/2005	98.48	98.79	---	15.65	82.83	25.0	10.0 - 25.0	88.8 - 73.8
	4/27/2015			---	13.76	84.72			
08650-MW37	12/14/2005	97.70	97.94	---	14.50	83.20	17.0	2.0 - 17.0	95.9 - 80.9
	4/27/2015			---	12.83	84.87			
08650-MW38	12/14/2005	99.51	99.73	---	16.51	83.00	17.0	2.0 - 17.0	97.7 - 82.7
	4/27/2015			---	14.48	85.03			
08650-MW39	12/14/2005	94.76	95.29	---	12.06	82.70	17.0	2.0 - 17.0	93.3 - 78.3
	4/27/2015			---	9.98	84.78			
08650-MW40	12/14/2005	110.56	110.81	---	34.80	75.76	40.0	25.0 - 40.0	85.8 - 70.8
	4/27/2015			---	27.32	83.24			
08650-MW41	12/14/2005	102.10	102.41	---	34.80	67.30	40.0	25.0 - 40.0	77.4 - 62.4
	4/27/2015			---	23.61	78.49			
08650-MW42	12/14/2005	101.90	102.23	---	34.41	67.49	40.0	25.0 - 40.0	77.2 - 62.2
	4/27/2015			---	22.79	79.11			
08650-MW43	12/14/2005	101.88	102.18	---	27.22	74.66	40.0	25.0 - 40.0	77.2 - 62.2
	4/27/2015			---	22.74	79.14			
08650-MW44	4/5/2006	NA	NA	---	33.31	NA	35.0	20.0 - 35.0	NA - NA
	4/27/2015			Not Located					
08650-MW45	4/5/2006	NA	NA	---	27.92	NA	30.0	15.0 - 30.0	NA - NA
	4/27/2015			Not Located					
08650-PW01	8/30/2002	96.47	96.69	---	21.93	74.54	47.0	45.0 - 47.0	51.7 - 49.7
	7/17/2003			---	10.63	85.84			
	8/31/2005			---	11.86	84.61			
	12/12/2005			---	14.78	81.69			
	4/27/2015			---	12.53	83.94			
08650-PW02	8/30/2002	97.44	97.87	---	23.45	73.99	75.0	70.0 - 75.0	27.9 - 22.9
	7/17/2003			---	12.84	84.60			
	8/31/2005			---	14.69	82.75			
	12/12/2005			---	16.16	81.28			
	4/27/2015			Well Dry					
08650-PW03	4/27/2015	97.44	97.91	Well Dry			NA	NA	NA - NA
08650-DW01	12/14/2005	97.57	97.79	---	20.21	77.36	90.0	85.0 - 90.0	12.8 - 7.8
	4/27/2015			---	13.99	83.58			
08650-DW02	12/14/2005	91.39	91.61	---	13.03	78.36	75.0	70.0 - 75.0	21.6 - 16.6
	4/27/2015			---	8.71	82.68			
08650-DW03	12/14/2005	96.37	96.58	---	22.64	73.73	65.0	60.0 - 65.0	36.6 - 31.6
	4/27/2015			---	11.68	84.69			
08650-DW04	12/14/2005	99.77	100.14	---	32.12	67.65	67.0	62.0 - 67.0	38.1 - 33.1
	4/27/2015			---	0.21	99.56			
08650-DW05	12/14/2005	99.45	99.71	---	28.41	71.04	75.0	70.0 - 75.0	29.7 - 24.7
	4/27/2015			---	16.57	82.88			
08650-DW06	12/14/2005	102.04	102.32	---	43.52	58.52	75.0	70.0 - 75.0	32.3 - 27.3
	4/27/2015			---	1.27	100.77			
08650-RW01	8/30/2002	96.29	96.49	---	25.10	71.19	30.0	25.0 - 30.0	71.5 - 66.5
	7/17/2003			---	10.81	85.48			
	12/12/2005			---	14.97	81.32			
	4/27/2015			**Sheen**	12.53	83.76			
08650-RW02	4/27/2015	98.90	NA	**Sheen**	15.80	83.10	NA	15.3 - 29.3	83.60 - 69.60

NOTES:
Measurements are in feet; elevations are relative to top of casing elevations.
Listed well and screen interval depths are from the *Tier II Assessment Addendum* , dated May 1, 2006 by Consultech Environmental, Inc.
Updated site survey by Souther Land Surveying, Inc., January 17, 2011.
BTOC - below top of casing
NA - Not Available
NL - Not Located

Prepared By: RAD
Checked By: TJB

TABLE 2A

Historical Laboratory Analytical Data
George Souther's Grocery
Campobello, Spartanburg County, South Carolina
SCDHEC UST Permit #08650; Cost Agreement #49434
BLE Project Number J14-7051-06

Monitoring Well	Date Sampled	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	MTBE (µg/l)	Naphthalene (µg/l)	EDB (µg/l)	1,2-DCA (µg/l)
SC DHEC RBSL		5	1,000	700	10,000	40	25	0.05	5
08650-MW01	8/30/2002	Well Dry							
	7/18/2003	49,000	180,000	31,000	180,000	9,600	23,000	NT	NT
	11/18/2005	45,000	620,000	22,000	108,000	10,000	6,200	0.322	<2,500
	4/29/2015	33,000	76,000	5,100	28,000	8,800	<1,700	180	<300
08650-MW02	8/30/2002	Not Sampled Due to Presence of Free-Product							
	7/18/2003	43,000	62,000	5,000	27,000	7,600	7,600	NT	NT
	11/22/2005	Well Dry							
	4/27/2015	Well Dry							
08650-MW02R	4/29/2015	40,000	48,000	2,900	17,000	1,400 J	<850	460	2,800
08650-MW02R DUP	4/29/2015	40,000	49,000	3,000	17,000	1,400 J	<850	560	2,700
08650-MW03	8/30/2002	Well Dry							
	7/18/2003	44,000	60,000	4,200	24,000	<2,500	7,100	NT	NT
	11/18/2005	36,000	46,000	1,700	11,800	<1.0	2,600	1	1,300
	4/29/2015	16,000	35,000	2,800	19,000	86 J	1,100	230	750 J
08650-MW03R	4/29/2015	8,700	15,000	950	5,800	88 J	280 J	43	470 J
08650-MW04	8/30/2002	<5.0	<5.0	<5.0	<5.0	<5.0	<20.0	NT	NT
	7/18/2003	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NT	NT
	11/18/2005	6.4	28.0	4.0	26.0	3.6	12	0.211	<5.0
	12/17/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/28/2015	0.31 J	<1.7	<1.7	<1.7	<0.40	<1.7	0.090	<0.30
08650-MW05	8/30/2002	Not Sampled Due to Presence of Free-Product							
	7/18/2003	46,000	92,000	13,000	86,000	<5,000	22,000	NT	NT
	11/18/2005	40,000	59,000	3,200	18,000	<500	5,500	1,280	1,400
	4/27/2015	Not Sampled Due to Presence of 0.21 Feet Free-Product							
08650-MW06	8/30/2002	Not Sampled Due to Presence of Free-Product							
	7/17/2003	Not Located							
	7/18/2003	Not Located							
08650-MW06R	11/22/2005	15	480	140	790	<10	79	0.057	<50
	12/18/2007	39.3	550	328	1,190	<5.0	46.1	<0.020	<5.0
	4/28/2015	5.4	31	19	88	<0.40	7.5	0.12	<0.30
08650-MW07	8/30/2002	Well Dry							
	7/18/2003	36,000	75,000	5,300	30,000	<2,500	8,600	NT	NT
	11/18/2005	35,000	7,100	3,500	20,400	<500	2,700	0.246	<2,500
	4/28/2015	21,000	56,000	4,300	22,000	<200	<850	130	<150
08650-MW07 DUP	4/28/2015	22,000	55,000	4,200	22,000	<200	<850	130	<150
08650-MW08	8/29/2002	Well Dry							
	7/18/2003	Not Sampled Due to Presence of Free-Product							
	11/23/2005	57,000	380,000	34,000	167,000	<500	12,000	1,140	<2,500
	4/27/2015	Not Sampled Due to Presence of 0.03 Feet of Free-Product							
08650-MW09	8/30/2002	Well Dry							
	7/18/2003	28,000	23,000	1,500	9,500	<500	1,500	NT	NT
	11/18/2005	25,000	22,000	1,100	7,600	<500	2,600	0.802	1,300
	4/29/2015	20,000	18,000	1,100	8,300	600 J	560 J	360	1,400
08650-MW09 DUP	4/29/2015	20,000	18,000	1,000	8,100	620 J	610 J	310	1,300
08650-MW10	8/29/2002	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.021	NT
	7/18/2003	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NT	NT
	8/31/2005	Not Located							
08650-MW10R	12/14/2005	<1.0	<1.0	<1.0	3.8	<1.0	5.0	<0.020	<5.0
	4/28/2015	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	0.65	<0.30
08650-MW11	8/29/2002	Not Sampled Due to Presence of Free-Product							
	7/18/2003	Not Sampled Due to Presence of Free-Product							
	11/23/2005	<50	120	1,300	9,400	<50	1,100	<0.020	<250
	12/18/2007	<5.0	<5.0	19.7	324	<5.0	34.9	<0.020	<5.0
	4/28/2015	21 J	<8.5	38	110	<2.0	13 J	0.057	<1.5
08650-MW12	8/29/2002	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020	NT
	7/18/2003	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NT	NT
	12/6/2005	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<0.02	<5.0
	4/28/2015	<0.21	2.4 J	<1.7	7.5	<0.40	<1.7	<0.0050	<0.30
08650-MW-13	8/29/2002	Well Dry							
	7/18/2003	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NT	NT
	8/31/2005	Not Located							
08650-MW13R	11/22/2005	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	0.041	<5.0
	12/18/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/28/2015	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0051	<0.30
08650-MW14	8/29/2002	<5.0	<5.0	<5.0	7.5	<5.0	<5.0	<0.019	NT
	7/18/2003	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NT	NT
	8/31/2005	Not Located							
08650-MW14R	12/7/2005	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<0.020	<5.0
	12/17/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/28/2015	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0050	<0.30
08650-MW15	8/29/2002	200	<5.0	<5.0	170	17	<5.0	<0.02	NT
	7/18/2003	130	<5.0	<5.0	63.0	<5.0	<5.0	NT	NT
	8/31/2005	Not Located							
08650-MW15R	12/7/2005	3.2	<1.0	<1.0	3.8	<1.0	<5.0	0.048	NT
	12/18/2007	321	6.0	<5.0	48.5	<5.0	51.5	<0.020	<5.0
	4/28/2015	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0050	<0.30
08650-MW16	8/29/2002	<5.0	<5.0	<5.0	13	<5.0	<5.0	<0.020	NT
	7/17/2003	<5.0	27	20	95	<5.0	<5.0	NT	NT
	8/31/2005	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<0.020	<5.0
	12/18/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/28/2015	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0050	<0.30

Prepared By: RAD
Checked By: TJB

TABLE 2A

Historical Laboratory Analytical Data
George Souther's Grocery
Campobello, Spartanburg County, South Carolina
SCDHEC UST Permit #08650; Cost Agreement #49434
BLE Project Number J14-7051-06

Monitoring Well	Date Sampled	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	MTBE (µg/l)	Naphthalene (µg/l)	EDB (µg/l)	1,2-DCA (µg/l)
SC DHEC RBSL		5	1,000	700	10,000	40	25	0.05	5
08650-MW17	8/29/2002	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.019	NT
	7/17/2003	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NT	NT
	11/18/2005	**7.8**	**32**	**5.2**	**32**	<1.0	**13**	**0.239**	<5.0
	12/17/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/27/2015	Not Located							
08650-MW18	8/29/2002	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020	NT
	7/17/2003	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NT	NT
	8/31/2005	Not Located							
08650-MW18R	11/22/2005	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	**0.02**	<5.0
	4/28/2015	<0.21	<1.7	<1.7	**4.0 J**	<0.40	**6.8**	<0.0053	<0.30
08650-MW19	8/29/2002	**400**	**51**	**8.0**	**100**	<5.0	**37**	<0.019	NT
	7/17/2003	**18**	**88**	**55**	**290**	<5.0	<5.0	NT	NT
	11/23/2005	**6.8**	**3.0**	<1.0	**28**	<1.0	<5.0	<0.020	<5.0
	12/18/2007	**46.1**	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/28/2015	**4.0 J**	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0049	<0.30
08650-MW20	8/29/2002	**7.0**	<5.0	<5.0	<5.0	<5.0	<5.0	<0.019	NT
	7/17/2003	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NT	NT
	11/23/2005	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<0.020	<5.0
	12/18/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/28/2015	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0049	<0.30
08650-MW21	7/17/2003	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NT	NT
	11/23/2005	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<0.020	<5.0
	12/18/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/28/2015	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0048	<0.30
08650-MW22	7/17/2003	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NT	NT
	11/23/2005	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<0.020	<5.0
	12/18/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/28/2015	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0049	<0.30
08650-MW23	7/17/2003	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NT	NT
	12/6/2005	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<0.020	<5.0
	4/28/2015	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0050	<0.30
08650-MW24	7/18/2003	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NT	NT
	12/6/2005	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<0.020	<5.0
	12/17/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/28/2015	**2,000**	**73 J**	**690**	**3,200**	<8.0	**120**	**0.017 J**	**75 J**
08650-MW25	7/18/2003	**6.0**	**130**	**55**	**250**	<5.0	**26**	NT	NT
	12/6/2005	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<0.020	<5.0
	12/18/2007	**782**	**13,500**	**1,020**	**5,670**	<50.0	**370**	**4.0**	<50.0
	4/28/2015	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0048	<0.30
08650-MW26	12/7/2005	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<0.020	<5.0
	12/17/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/28/2015	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0050	<0.30
08650-MW27	11/22/2005	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<0.020	<5.0
	4/28/2015	**21**	**100**	**60**	**270**	<0.40	**20**	**0.58**	**0.76 J**
08650-MW28	11/22/2005	**94**	**9,900**	**2,600**	**13,800**	<50	**1,100**	<0.020	<250
	12/17/2007	<250	**7,780**	**2,520**	**13,900**	<250	**907**	<0.020	<250
	4/28/2015	**28 J**	**530**	**1,100**	**5,700**	<20	**350**	**0.23**	<15
08650-MW29	12/7/2005	**13,000**	**16,000**	**1,000**	**5,400**	<10	**430**	**0.179**	**380**
	12/17/2007	**21,900**	**20,600**	**1,780**	**9,470**	<250	**1,080**	**382**	**1,180**
	4/28/2015	**8,900**	**11,000**	**930**	**4,400**	**47 J**	**280 J**	**170**	**620**
08650-MW30	11/22/2005	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	**0.158**	<5.0
	4/28/2015	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0049	**9.8**
08650-MW31	11/22/2005	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<0.02	<5.0
	4/28/2015	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0049	<0.30
08650-MW32	12/7/2005	**36,000**	**52,000**	**3,200**	**18,600**	<500	**2,900**	**0.578**	<2.500
	4/27/2015	**Not Sampled Due to Presence of 0.40 Feet of Free-Product**							
08650-MW33	12/12/2005	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<0.020	<5.0
	4/28/2015	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0049	<0.30
08650-MW34	12/12/2005	Well Dry							
	4/5/2006	<1.0	**1.2**	<1.0	<2.0	<1.0	<5.0	<0.019	<5.0
	12/18/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/28/2015	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0050	<0.30
08650-MW35	11/22/2005	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<0.020	<5.0
	4/28/2015	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0049	<0.30
08650-MW36	11/22/2005	**500**	**5,800**	**1,300**	**8,500**	<500	**2,500**	<0.02	<2.500
	4/28/2015	<1.1	**170**	**220**	**890**	<2.0	**88**	<0.0050	<1.5
08650-MW37	11/22/2005	<1.0	**4.8**	**2.4**	**5.8**	<1.0	**<5.0**	<0.020	<5.0
	4/28/2015	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0049	<0.30
08650-MW38	11/22/2005	<1.0	**1.9**	**1.1**	**7.6**	<1.0	**5.0**	<0.02	<5.0
	4/28/2015	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0049	<0.30
08650-MW39	11/22/2005	**1.0**	**33.0**	**3.9**	**17.6**	<1.0	<5.0	<0.02	<5.0
	4/28/2015	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0050	<0.30
08650-MW40	12/12/2005	**5.2**	**37**	**4.0**	**13.1**	<1.0	**5.4**	**0.13**	<5.0
	12/18/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/28/2015	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0050	<0.30
08650-MW41	11/22/2005	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<0.02	<5.0
	12/17/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/27/2015	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0050	<0.30
08650-MW42	11/22/2005	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<0.02	<5.0
	12/17/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/27/2015	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0050	<0.30

Prepared By: RAD
Checked By: TJB

TABLE 2A

Historical Laboratory Analytical Data
George Souther's Grocery
Campobello, Spartanburg County, South Carolina
SCDHEC UST Permit #08650; Cost Agreement #49434
BLE Project Number J14-7051-06

Monitoring Well	Date Sampled	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	MTBE (µg/l)	Naphthalene (µg/l)	EDB (µg/l)	1,2-DCA (µg/l)
SC DHEC RBSL		5	1,000	700	10,000	40	25	0.05	5
08650-MW43	11/22/2005	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<0.02	<5.0
	12/17/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/27/2015	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0050	<0.30
08650-MW44	11/22/2005	<1.0	**1.2**	<1.0	**1.2**	**1.7**	**13.0**	<0.019	<5.0
	4/27/2015	Not Located							
08650-MW45	11/22/2005	<1.0	**1.1**	<1.0	<2.0	<1.0	<5.0	<0.019	<5.0
	4/27/2015	Not Located							
08650-PW01	8/30/2002	**1,600**	**50**	**49**	**280**	<5.0	**31**	<0.019	NT
	7/17/2003	**1,100**	<5.0	**8.0**	**30**	<5.0	**24**	NT	NT
	12/6/2005	<1.0	**3.1**	<1.0	**5.9**	<1.0	<5.0	<0.02	<5.0
	12/17/2007	**7.0**	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/29/2015	**6,600**	**460 J**	<170	**1,300**	<40	<170	<0.0049	<30
08650-PW02	8/30/2002	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020	NT
	12/6/2005	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	**0.063**	<5.0
	12/17/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**0.069**	<5.0
	4/27/2015	Well Dry							
08650-PW03	4/27/2015	Well Dry							
08650-DW01	12/14/2005	**900**	**50**	**6.0**	**36**	<1.0	**62**	**0.184**	<5.0
	12/17/2007	**103**	<5.0	<5.0	<5.0	<5.0	<5.0	**0.15**	<5.0
	4/29/2015	**290**	<8.5	<8.5	<8.5	<2.0	**13 J**	<0.0050	<1.5
08650-DW02	12/12/2005	**400**	**310**	**78**	**490**	<1.0	**25**	**0.568**	<5.0
	12/17/2007	**236**	**106**	**32.7**	**215**	<5.0	**10.3**	<0.020	<5.0
	4/29/2015	**4.7 J**	**440**	<8.5	<8.5	<2.0	<8.5	<0.0052	<1.5
08650-DW03	12/14/2005	**22**	**140**	**13**	**93**	<1.0	**8.0**	<0.020	<5.0
	12/18/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/28/2015	**12 J**	**260**	**94**	**510**	<2.0	**24 J**	<0.0049	<1.5
08650-DW04	12/12/2005	**640**	**4,700**	**620**	**4,400**	<1.0	**310**	**11.6**	<5.0
	12/18/2007	**61.2**	**602**	**280**	**1,280**	<25.0	**120**	**0.37**	<25.0
	4/28/2015	**2.6 J**	**15**	**12**	**48**	<0.40	**5.1**	<0.0050	<0.30
08650-DW05	12/14/2005	**1,200**	**71**	**14**	**84**	<1.0	**100**	**0.893**	<5.0
	12/17/2007	**939**	<25.0	<25.0	<50.0	<25.0	**92.6**	<0.020	<25.0
	4/29/2015	**640**	<8.5	<8.5	<8.5	<2.0	**70**	<0.0049	<1.5
08650-DW06	4/20/2005	<1.0	<1.0	<1.0	<2.0	<1.0	<5.0	<0.020	<5.0
	12/17/2007	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.020	<5.0
	4/29/2015	**2.1 J**	**5.9**	<1.7	<1.7	<0.40	<1.7	<0.0050	<0.30
08650-RW01	8/30/2002	**Not Sampled Due to Presence of Free-Product**							
	7/17/2003	**13,000**	**14,000**	**2,100**	**14,000**	<500	**1,500**	NT	NT
	12/6/2005	**9,500**	**54,000**	**6,400**	**35,000**	<500	**3,400**	**0.014**	<2,500
	4/29/2015	**3,000**	**2,800**	**850**	**4,400**	**230 J**	**190 J**	**1.4**	<15
08650-RW02	4/29/2015	**36,000**	**34,000**	**1,900 J**	**12,000**	**11,000**	<850	**0.69**	<150
Field Blank 01	4/27/2015	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0050	<0.30
Field Blank 02	4/28/2015	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0049	<0.30
Field Blank 03	4/29/2015	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0050	<0.30
Trip Blank 01	4/27/2015	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	NT	<0.30
Trip Blank 02	4/27/2015	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	NT	<0.30

Notes:
EDB - 1,2-dibromoethane
MTBE - methyl tert-butyl ether
1,2-DCA - 1,2-dichloroethane
RBSL - Risk-Based Screening Level
(µg/L) - micrograms per liter - parts per billion
Bold values indicate concentrations detected above laboratory method detection limits.
Shaded values indicate concentrations exceeding RBSLs.
J - calculated concentration above the adjusted method detection limit and below the adjusted reporting limit
Historical laboratory analytical results obtained from *Tier II Assessment Report Addendum* by Consultech Environmental, Inc. dated May 1, 2006 and lab results submitted to the SCDHEC by Pace Analytic dated January 3, 2008.
NT - Not Tested

Prepared By: RAD
Checked By: TJB

TABLE 2B

Historical Laboratory Analytical Data - 8-Oxygenates
George Souther's Grocery
Campobello, Spartanburg County, South Carolina
SCDHEC UST Permit #08650; Cost Agreement #49434
BLE Project Number J14-7051-06

Well	Date Sampled	Diisopropyl Ether (IPE) (µg/L)	Ethanol (µg/L)	Ethyl-Tert-butyl Alcohol (ETBA) (µg/L)	Ethyl-tert-butyl ether (ETBE) (µg/L)	Tert-Amyl Alcohol (TAA) (µg/L)	Tert-Amyl Methyl Ether (TAME) (µg/L)	Tert-Butyl Alcohol (TBA) (µg/L)	Tert-Butyl Formate (TBF) (µg/L)
SC DHEC RBSL		150	10,000	1,400	47	240	128	1,400	NE
08650-MW01	11/18/2005	**52,000**	<12,000	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500
	4/29/2015	**42,000**	<19,000	<1,500	<200	**51,000**	<250	**8,800 J**	<660
08650-MW02	11/22/2005	Well Dry							
	4/27/2015	Well Dry							
08650-MW02R	4/29/2015	**37,000**	<9,600	<750	<100	**53,000**	<130	**9,600 J**	<330
08650-MW02R DUP	4/29/2015	**35,000**	<9,600	<750	<100	**52,000**	<130	**9,600 J**	<330
08650-MW03	11/18/2005	**24,000**	<25	**35,000**	<5.0	**120,000**	<5.0	**13,000**	<5.0
	4/29/2015	**11,000**	<3,900	<300	<40	**19,000**	<50	**4,500**	<130
08650-MW03R	4/29/2015	**12,000**	<1,900	<150	<20	**19,000**	<25	**5,400**	<66
08650-MW04	11/18/2005	<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	12/17/2007	<5.0	<200	<100	<10.0	<100	<10.0	<100	<50.0
	4/28/2015	<0.40	<19	<1.5	<0.20	<1.5	<0.25	<2.3	<0.66
08650-MW05	11/18/2005	**29,000**	<12,000	**37,000**	<2,500	**230,000**	<2,500	<2,500	<2,500
	4/27/2015	**Not Sampled Due to Presence of 0.21 Feet of Free-Product**							
08650-MW06	7/18/2003	Not Located							
08650-MW06R	11/22/2005	**2,900**	<250	<50	<50	<50	<50	<50	<50
	12/18/2007	<5.0	<200	<100	<10.0	**553**	<10.0	<100	<50.0
	4/28/2015	<0.40	<19	<1.5	<0.20	<1.5	<0.25	<2.3	<0.66
08650-MW07	11/18/2005	**62,000**	<12,000	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500
	4/28/2015	**8,400**	<9,600	<750	<100	**5,600 J**	<130	<1,100	<330
08650-MW07 DUP	4/28/2015	**8,900**	<9,600	<750	<100	**7,100 J**	<130	<1,100	<330
08650-MW08	11/23/2005	**44,000**	<12,000	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500
	4/27/2015	**Not Sampled Due to Presence of 0.03 Feet of Free-Product**							
08650-MW09	11/18/2005	**8,300**	<12,000	<2,500	<2,500	**97,000**	<2,500	<2,500	<2,500
	4/29/2015	**6,700**	<3,900	<300	<40	**20,000**	<50	**1,700 J**	<130
08650-MW09 DUP	4/29/2015	**6,600**	<3,900	<300	<40	**21,000**	<50	**1,700 J**	<130
08650-MW10	8/31/2005	Not Located							
08650-MW10R	12/14/2005	<5.0	<25	<5.0	<5.0	**120**	<5.0	<5.0	<5.0
	4/28/2015	<0.40	<19	<1.5	<0.20	<1.5	<0.25	<2.3	<0.66
08650-MW11	11/23/2005	<250	<1,200	<250	<250	<250	<250	<250	<250
	12/18/2007	<5.0	<200	<100	<10.0	<100	<10.0	<100	<50.0
	4/28/2015	<2.0	<96	<7.5	<1.0	<7.3	<1.3	<11	<3.3
08650-MW12	12/6/2005	<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	4/28/2015	<0.40	<19	<1.5	<0.20	<1.5	<0.25	<2.3	<0.66
08650-MW-13	8/31/2005	Not Located							
08650-MW13R	11/22/2005	**6.9**	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	12/18/2007	**20.9**	<200	<100	<10.0	<100	<10.0	<100	<50.0
	4/28/2015	**10**	<19	<1.5	<0.20	<1.5	<0.25	<2.3	<0.66
08650-MW14	8/31/2005	Not Located							
08650-MW14R	12/7/2005	<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	12/17/2007	<5.0	<200	<100	<10.0	<100	<10.0	<100	<50.0
	4/28/2015	<0.40	<19	<1.5	<0.20	<1.5	<0.25	<2.3	<0.66
08650-MW15	8/31/2005	Not Located							
08650-MW15R	12/7/2005	<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	12/18/2007	**53.9**	<200	<100	<10.0	**421**	<10.0	<100	<50.0
	4/28/2015	<0.40	<19	<1.5	<0.20	<1.5	<0.25	<2.3	<0.66
08650-MW16	8/31/2005	<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	12/18/2007	<5.0	<200	<100	<10.0	<100	<10.0	<100	<50.0
	4/28/2015	<0.40	<19	<1.5	<0.20	<1.5	<0.25	<2.3	<0.66
08650-MW17	11/18/2005	<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	12/17/2007	<5.0	<200	<100	<10.0	<100	<10.0	<100	<50.0
	4/27/2015	Not Located							
08650-MW18	8/31/2005	Not Located							
08650-MW18R	11/22/2005	<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	4/28/2015	<0.40	<19	<1.5	<0.20	<1.5	<0.25	<2.3	<0.66
08650-MW19	11/23/2005	<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	12/18/2007	<5.0	<200	<100	<10.0	<100	<10.0	<100	<50.0
	4/28/2015	<0.40	<19	<1.5	<0.20	**14 J**	<0.25	**130**	<0.66
08650-MW20	11/23/2005	<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	12/18/2007	<5.0	<200	<100	<10.0	<100	<10.0	<100	<50.0
	4/28/2015	<0.40	<19	<1.5	<0.20	<1.5	<0.25	<2.3	<0.66
08650-MW21	11/23/2005	<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	12/18/2007	<5.0	<200	<100	<10.0	<100	<10.0	<100	<50.0
	4/28/2015	<0.40	<19	<1.5	<0.20	<1.5	<0.25	<2.3	<0.66
08650-MW22	11/23/2005	<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	12/18/2007	<5.0	<200	<100	<10.0	<100	<10.0	<100	<50.0
	4/28/2015	<0.40	<19	<1.5	<0.20	<1.5	<0.25	<2.3	<0.66
08650-MW23	12/6/2005	<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	4/28/2015	<0.40	<19	<1.5	<0.20	<1.5	**0.83 J**	<2.3	<0.66
08650-MW24	12/6/2005	<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	12/17/2007	<5.0	<200	<100	<10.0	<100	<10.0	<100	<50.0
	4/28/2015	**610**	<390	<30	<4.0	**2,100**	<5.0	**160 J**	<13
08650-MW25	12/6/2005	<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	12/18/2007	<50.0	<2,000	<1,000	<100	**3,330**	<100	<1,000	<500
	4/28/2015	<0.40	<19	<1.5	<0.20	<1.5	<0.25	<2.3	<0.66

Prepared By: RAD
Checked By: TJB

TABLE 2B

Historical Laboratory Analytical Data - 8-Oxygenates
George Souther's Grocery
Campobello, Spartanburg County, South Carolina
SCDHEC UST Permit #08650; Cost Agreement #49434
BLE Project Number J14-7051-06

Well	Date Sampled	Diisopropyl Ether (IPE) (µg/L)	Ethanol (µg/L)	Ethyl-Tert-butyl Alcohol (ETBA) (µg/L)	Ethyl-tert-butyl ether (ETBE) (µg/L)	Tert-Amyl Alcohol (TAA) (µg/L)	Tert-Amyl Methyl Ether (TAME) (µg/L)	Tert-Butyl Alcohol (TBA) (µg/L)	Tert-Butyl Formate (TBF) (µg/L)
SC DHEC RBSL		150	10,000	1,400	47	240	128	1,400	NE
08650-MW26	12/7/2005	<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	12/17/2007	<5.0	<200	<100	<10.0	**151**	<10.0	<100	<50.0
	4/28/2015	<0.40	<19	<1.5	<0.20	<1.5	<0.25	<2.3	<0.66
08650-MW27	11/22/2005	<5.0	<25	<5.0	<5.0	<5.0	**7.4**	<5.0	<5.0
	4/28/2015	**0.55 J**	<19	<1.5	<0.20	**2.2 J**	<0.25	<2.3	<0.66
08650-MW28	11/22/2005	<2,500	<12,000	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500
	12/17/2007	<250	<10,000	<5,000	<500	<5,000	<500	<5,000	<2,500
	4/28/2015	<20	<960	<75	<10	**210 J**	<13	<110	<33
08650-MW29	12/7/2005	**2,900**	<250	**2,600**	<50	<50	<50	**860**	<50
	12/17/2007	**8,970**	<10,000	<5,000	<500	**43,000**	<500	<5,000	<2,500
	4/28/2015	**2,600**	<1,900	<150	<20	**12,000**	<25	**1,200 J**	<66
08650-MW30	11/22/2005	**38**	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	4/28/2015	**110**	<19	<1.5	<0.20	<1.5	<0.25	<2.3	<0.66
08650-MW31	11/22/2005	<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	4/28/2015	<0.40	<19	<1.5	<0.20	<1.5	<0.25	<2.3	<0.66
08650-MW32	12/7/2005	**11,000**	<12,000	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500
	4/27/2015	**Not Sampled Due to Presence of 0.40 Feet of Free-Product**							
08650-MW33	12/12/2005	<5.0	<25	<5.0	<5.0	**64**	<5.0	**54**	<5.0
	4/28/2015	<0.40	<19	<1.5	<0.20	<1.5	<0.25	<2.3	<0.66
08650-MW34	4/5/2006	<5.0	<100	<25	<5.0	<25	<5.0	<25	<25
	12/18/2007	<5.0	<200	<100	<10.0	<100	<10.0	<100	<50.0
	4/28/2015	<0.40	<19	<1.5	<0.20	<1.5	<0.25	<2.3	<0.66
08650-MW35	11/22/2005	<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	4/28/2015	<0.40	<19	<1.5	<0.20	<1.5	<0.25	<2.3	<0.66
08650-MW36	11/22/2005	<2,500	<12,000	<2,500	<2,500	<2,500	<2,500	<2,500	<2,500
	4/28/2015	<2.0	<96	<7.5	<1.0	**140**	<1.3	<11	<3.3
08650-MW37	11/22/2005	<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	4/28/2015	<0.40	<19	<1.5	<0.20	<1.5	<0.25	<2.3	<0.66
08650-MW38	11/22/2005	<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	4/28/2015	<0.40	<19	<1.5	<0.20	<1.5	<0.25	<2.3	<0.66
08650-MW39	11/22/2005	<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	4/28/2015	<0.40	<19	<1.5	<0.20	<1.5	<0.25	<2.3	<0.66
08650-MW40	12/12/2005	<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	12/18/2007	<5.0	<200	<100	<10.0	<100	<10.0	<100	<50.0
	4/28/2015	<0.40	<19	<1.5	<0.20	<1.5	<0.25	<2.3	<0.66
08650-MW41	11/22/2005	<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	12/17/2007	<5.0	<200	<100	<10.0	<100	<10.0	<100	<50.0
	4/27/2015	<0.40	<19	<1.5	<0.20	<1.5	<0.25	<2.3	<0.66
08650-MW42	11/22/2005	<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	12/17/2007	<5.0	<200	<100	<10.0	<100	<10.0	<100	<50.0
	4/27/2015	<0.40	<19	<1.5	<0.20	<1.5	<0.25	<2.3	<0.66
08650-MW43	11/22/2005	<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	12/17/2007	<5.0	<200	<100	<10.0	<100	<10.0	<100	<50.0
	4/27/2015	<0.40	<19	<1.5	<0.20	<1.5	<0.25	<2.3	<0.66
08650-MW44	11/22/2005	<5.0	<100	<25	<5.0	<25	<5.0	<25	<25
	4/27/2015	Not Located							
08650-MW45	11/22/2005	<5.0	<100	<25	<5.0	<25	<5.0	<25	<25
	4/27/2015	Not Located							
08650-PW01	12/6/2005	<5.0	**1,200**	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	12/17/2007	<5.0	<200	<100	<10.0	<100	<10.0	<100	<50.0
	4/29/2015	**3,800**	<1,900	<150	<20	**2,500**	<25	**520 J**	<66
08650-PW02	12/6/2005	<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	12/17/2007	**86.7**	<200	<100	<10.0	<100	<10.0	<100	<50.0
	4/27/2015	Well Dry							
08650-PW03	4/27/2015	Well Dry							
08650-DW01	12/14/2005	**220**	<25	**86**	<5.0	<5.0	<5.0	<5.0	<5.0
	12/17/2007	**298**	<200	<100	<10.0	**739**	<10.0	<100	<50.0
	4/29/2015	**170**	<96	<7.5	<1.0	**590**	<1.3	**64 J**	<3.3
08650-DW02	12/12/2005	**120**	<25	**94**	<5.0	<5.0	<5.0	<5.0	<5.0
	12/17/2007	**122**	<200	<100	<10.0	**329**	<10.0	<100	<50.0
	4/29/2015	<2.0	**620**	<7.5	<1.0	<7.3	<1.3	<11	<3.3
08650-DW03	12/14/2005	<5.0	<25	**53**	<5.0	<5.0	<5.0	<5.0	<5.0
	12/18/2007	<5.0	<200	<100	<10.0	<100	<10.0	<100	<50.0
	4/28/2015	<2.0	<96	<7.5	<1.0	**48 J**	<1.3	<11	<3.3
08650-DW04	12/12/2005	<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	12/18/2007	**31.3**	<1,000	<500	<50.0	<500	<50.0	<500	<250
	4/28/2015	**1.7 J**	<19	<1.5	<0.20	<1.5	<0.25	<2.3	<0.66
08650-DW05	12/14/2005	**270**	<25	**130**	<5.0	<5.0	<5.0	<5.0	<5.0
	12/17/2007	**227**	<1,000	<500	<50.0	**756**	<50.0	<500	<250
	4/29/2015	**100**	<96	<7.5	<1.0	**690**	<1.3	<11	<3.3
08650-DW06	4/20/2005	<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	12/17/2007	<5.0	<200	<100	<10.0	<100	<10.0	<100	<50.0
	4/29/2015	<0.40	<19	<1.5	<0.20	<1.5	<0.25	<2.3	<0.66
08650-RW01	12/6/2005	<250	<1,200	<250	**2,600**	<250	<250	<250	<250
	4/29/2015	**4,200**	<960	<75	<10	**3,600**	<13	**1,500**	<33
08650-RW02	4/29/2015	**24,000**	<9,600	<750	<100	**53,000**	<130	**9,500 J**	<330

Prepared By: RAD
Checked By: TJB

TABLE 2B

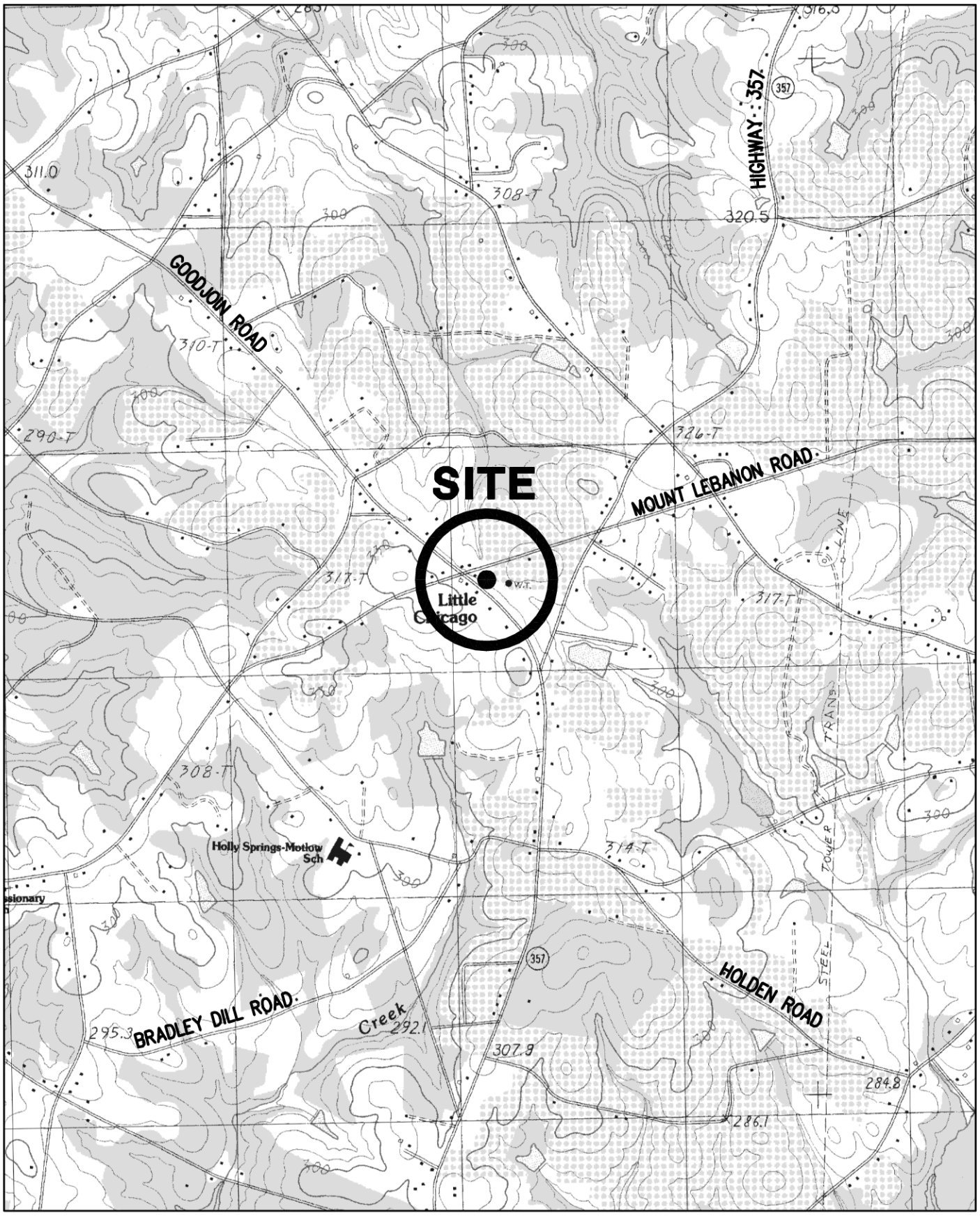
Historical Laboratory Analytical Data - 8-Oxygenates
George Souther's Grocery
Campobello, Spartanburg County, South Carolina
SCDHEC UST Permit #08650; Cost Agreement #49434
BLE Project Number J14-7051-06

Well	Date Sampled	Diisopropyl Ether (IPE) (µg/L)	Ethanol (µg/L)	Ethyl-Tert-butyl Alcohol (ETBA) (µg/L)	Ethyl-tert-butyl ether (ETBE) (µg/L)	Tert-Amyl Alcohol (TAA) (µg/L)	Tert-Amyl Methyl Ether (TAME) (µg/L)	Tert-Butyl Alcohol (TBA) (µg/L)	Tert-Butyl Formate (TBF) (µg/L)
SC DHEC RBSL		150	10,000	1,400	47	240	128	1,400	NE
Field Blank 01	4/27/2015	<0.40	<19	<1.5	<0.20	<1.5	<0.25	<2.3	<0.66
Field Blank 02	4/28/2015	<0.40	<19	<1.5	<0.20	<1.5	<0.25	<2.3	<0.66
Field Blank 03	4/29/2015	<0.40	<19	<1.5	<0.20	<1.5	<0.25	<2.3	<0.66
Trip Blank 01	4/27/2015	<0.40	<19	<1.5	<0.20	<1.5	<0.25	<2.3	<0.66
Trip Blank 02	4/27/2015	<0.40	<19	<1.5	<0.20	<1.5	<0.25	<2.3	<0.66

Notes:
RBSL - Risk-Based Screening Level
(µg/L) - micrograms per liter - parts per billion
Bold values indicate concentrations detected above laboratory method detection limits.
Shaded values indicate concentrations exceeding RBSLs.
J - calculated concentration above the adjusted method detection limit and below the adjusted reporting limit
Historical laboratory analytical results obtained from *Tier II Assessment Report Addendum* by Consultech Environmental, Inc. dated May 1, 2006 and lab results submitted to the SCDHEC by Pace Analytic dated January 3, 2008.
NE - Not Established
NT - Not Tested

Prepared By: RAD
Checked By: TJB

FIGURES

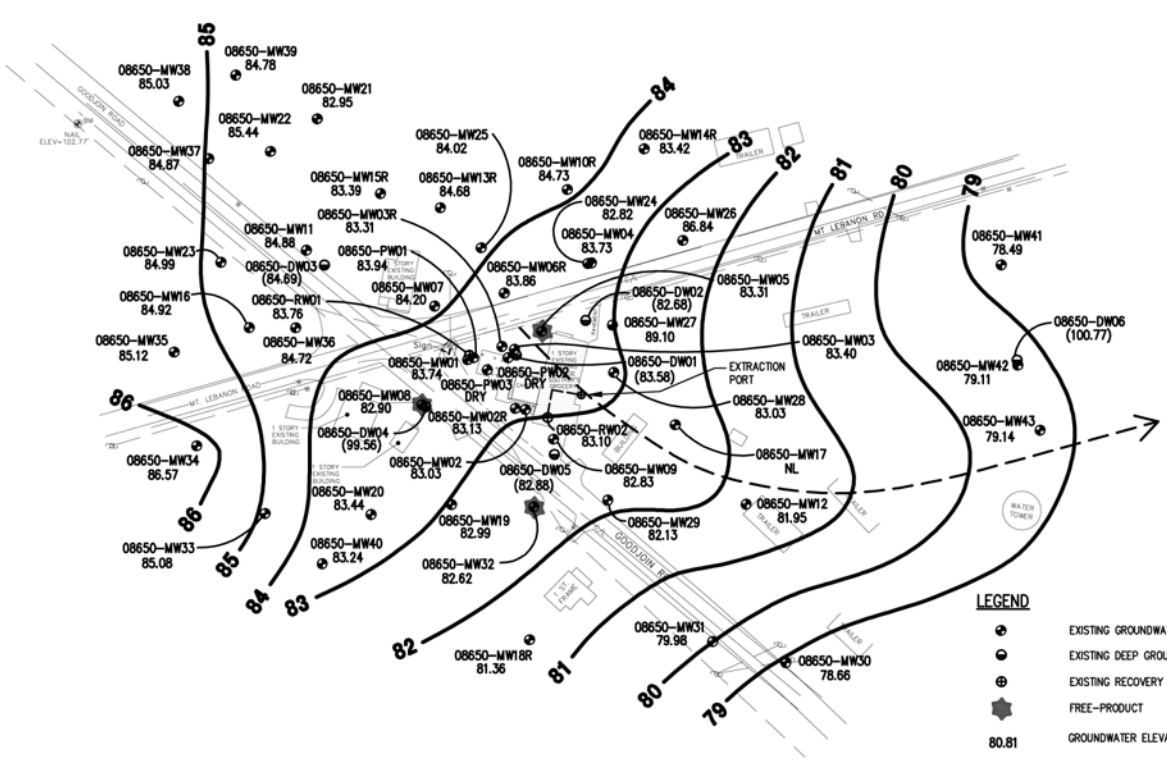


1 .5 0 KILOMETERS 1

1000 0 METERS 1000

REFERENCE:
USGS TOPOGRAPHIC MAP, 7.5 MINUTE SERIES, CAMPOBELLO, S.C. QUADRANGLE, 1983.

DRAWN: ACE	DATE: 05-26-15	BLE INC. BUNNELL-LAMMONS ENGINEERING, INC. 6004 PONDERS COURT GREENVILLE, SOUTH CAROLINA 29615 PHONE: (864)288-1265 FAX: (864)288-4430	SITE LOCATION MAP GEORGE SOUTHER'S GROCERY UST PERMIT #08650 CAMPOBELLO, SOUTH CAROLINA	FIGURE
CHECKED: RAD	CAD: GEORGESOUGR-06SLM			1
APPROVED:	JOB NO: J14-7051-06			



NOTES:

1. GROUNDWATER MEASUREMENTS COLLECTED ON APRIL 27, 2015.
2. GROUNDWATER ELEVATION DATA FOR DMW-1 AND DMW-2 WERE IGNORED FOR CONTOUR PURPOSES DUE TO THE DEPTH OF THE SCREENED INTERVAL.
3. ELEVATIONS ARE RELATIVE TO AN ARBITRARY SITE DATUM.

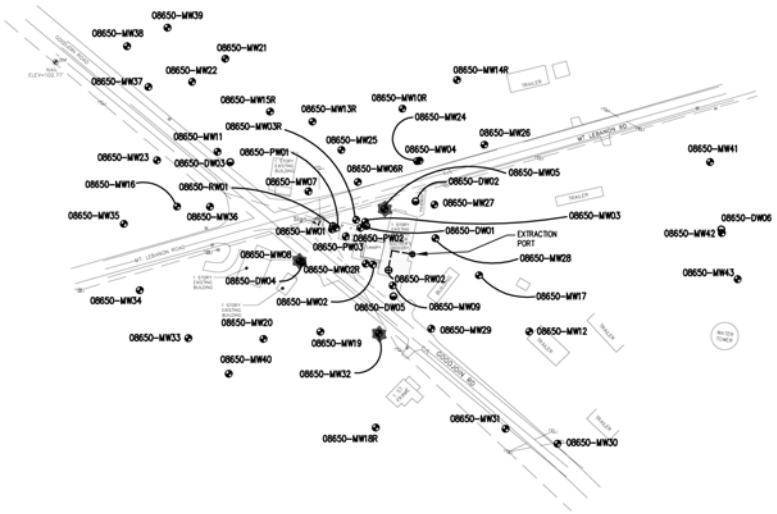
REFERENCE:
DRAWING TITLED "SITE SURVEY" BY SOUTHER LAND SURVEYING, INC. DATED SEPTEMBER 17, 2012.

DRAWN BY: ACE	DATE: 01-30-15	REVISIONS	
CHECKED BY: RAD	FILE: GEORGESOUGR-06SP	No. / DESCRIPTION / BY	
APPROVED BY:	JOB NO: J15-7051-06		

BLE INC.
BUNNELL-LAMMONS ENGINEERING, INC.
6004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615
PHONE: (864)288-1265 FAX: (864)288-4430

GROUNDWATER ELEVATION CONTOUR MAP – APRIL 2015
GEORGE SOUTHER'S GROCERY
UST PERMIT #08650
CAMPOBELLO, SOUTH CAROLINA

FIGURE
2



Contaminant of Concern =>		Benzene	Toluene	Ethylbenzene	Xylenes (total)	Methyl tertiary butyl ether (MTBE)	Naphthalene	1,2-Dibromoethane (EDB)	1,2-Dichloroethane	tert-Amyl methyl ether (TAME)	tert-Amyl alcohol (TAA)	tert-Butyl formamide (TBF)	tert-butyl alcohol (TBA)	Diisopropyl ether (DPE)	Ethanol	Ethyl-tert-butyl ether (ETBE)	2,3-Dimethyl-1-butanol (ETBA)
Sample ID	Date Sampled (mm/dd/yy)	5	1,000	700	10,000	40	25	0.05	5	128	240	NE	1,400	150	10,000	47	NE
08650-MW01	04/29/15	**33,000**	**76,000**	**5,100**	**28,000**	**8,800**	<1,700	**180**	<300	<250	**51,000**	<660	**8,800 J**	**42,000**	<19,000	<200	<1,500
08650-MW02R	04/29/15	**40,000**	**48,000**	**2,900**	**17,000**	**1,400 J**	<850	**460**	**2,800**	<130	**53,000**	<330	**9,600 J**	**37,000**	<9,600	<100	<750
08650-MW02RDUP	04/29/15	**40,000**	**49,000**	**3,000**	**17,000**	**1,400 J**	<850	**560**	**2,700**	<130	**52,000**	<330	**9,600 J**	**35,000**	<9,600	<100	<750
08650-MW03	04/29/15	**16,000**	**35,000**	**2,800**	**15,000**	**86 J**	**1,100**	**230**	**750 J**	<50	**15,000**	<130	**4,500**	**11,000**	<3,900	<40	<300
08650-MW03R	04/29/15	**8,700**	**15,000**	**950**	**5,800**	**88 J**	**280 J**	**43**	**470 J**	<25	**19,000**	<66	**5,400**	**12,000**	<1,900	<20	<150
08650-MW04	04/28/15	**0.31 J**	<1.7	<1.7	<1.7	<0.40	<1.7	**0.090**	<0.30	<0.25	<1.5	<0.66	<2.3	<0.40	<19	<0.20	<1.5
08650-MW06R	04/28/15	**5.4**	**31**	**19**	**88**	<0.40	**7.5**	**0.12**	<0.30	<0.25	<1.5	<0.66	<2.3	<0.40	<19	<0.20	<1.5
08650-MW07	04/28/15	**21,000**	**56,000**	**4,500**	**22,000**	<200	<850	**130**	<150	<130	**5,600 J**	<330	<1,100	**8,400**	<9,600	<100	<750
08650-MW07DUP	04/28/15	**22,000**	**55,000**	**4,200**	**22,000**	<200	<850	**130**	<150	<130	**5,100 J**	<330	<1,100	**8,900**	<9,600	<100	<750
08650-MW09	04/29/15	**20,000**	**18,000**	**1,100**	**8,300**	**600 J**	**560 J**	**360**	**1,400**	<50	**20,000**	<130	**1,700 J**	**6,700**	<3,900	<40	<300
08650-MW09DUP	04/29/15	**20,000**	**18,000**	**1,000**	**8,100**	**620 J**	**610 J**	**310**	**1,300**	<50	**21,000**	<130	**1,700 J**	**6,600**	<3,900	<40	<300
08650-MW10R	04/28/15	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	**0.65**	<0.30	<0.25	<1.5	<0.66	<2.3	<0.40	<19	<0.20	<1.5
08650-MW11	04/28/15	**21 J**	<8.5	**38**	**110**	<2.0	**13 J**	**0.057**	<1.5	<1.3	<7.5	<3.3	<11	<2.0	<96	<1.0	<7.5
08650-MW12	04/28/15	<0.21	**2.4 J**	<1.7	**7.5**	<0.40	<1.7	<0.0050	<0.30	<0.25	<1.5	<0.66	<2.3	<0.40	<19	<0.20	<1.5
08650-MW13R	04/28/15	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0051	<0.30	<0.25	<1.5	<0.66	<2.3	**10**	<19	<0.20	<1.5
08650-MW14R	04/28/15	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0050	<0.30	<0.25	<1.5	<0.66	<2.3	<0.40	<19	<0.20	<1.5
08650-MW15R	04/28/15	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0050	<0.30	<0.25	<1.5	<0.66	<2.3	<0.40	<19	<0.20	<1.5
08650-MW16	04/28/15	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0050	<0.30	<0.25	<1.5	<0.66	<2.3	<0.40	<19	<0.20	<1.5
08650-MW18R	04/28/15	<0.21	<1.7	<1.7	**4.0 J**	<0.40	**6.8**	<0.0051	<0.30	<0.25	<1.5	<0.66	<2.3	<0.40	<19	<0.20	<1.5
08650-MW19	04/28/15	**4.0 J**	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0049	<0.30	<0.25	**14 J**	<0.66	**130**	<0.40	<19	<0.20	<1.5
08650-MW20	04/28/15	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0049	<0.30	<0.25	<1.5	<0.66	<2.3	<0.40	<19	<0.20	<1.5
08650-MW21	04/28/15	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0048	<0.30	<0.25	<1.5	<0.66	<2.3	<0.40	<19	<0.20	<1.5
08650-MW22	04/28/15	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0049	<0.30	<0.25	<1.5	<0.66	<2.3	<0.40	<19	<0.20	<1.5
08650-MW23	04/28/15	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0050	<0.30	**0.83 J**	<1.5	<0.66	<2.3	<0.40	<19	<0.20	<1.5
08650-MW24	04/28/15	**2,000**	**73 J**	**690**	**3,200**	<8.0	**120**	**0.017 J**	**75 J**	<5.0	**2,100**	<13	**160 J**	**610**	<390	<4.0	<30
08650-MW25	04/28/15	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0048	<0.30	<0.25	<1.5	<0.66	<2.3	<0.40	<19	<0.20	<1.5
08650-MW26	04/28/15	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0050	<0.30	<0.25	<1.5	<0.66	<2.3	<0.40	<19	<0.20	<1.5
08650-MW27	04/28/15	**21**	**100**	**60**	**270**	<0.40	**20**	**0.58**	**0.76 J**	<0.25	**2.2 J**	<0.66	<2.3	**0.55 J**	<19	<0.20	<1.5
08650-MW28	04/28/15	**28 J**	**530**	**1,100**	**5,700**	<20	**350**	**0.23**	<15	<13	**210 J**	<33	<110	<20	<960	<10	<75
08650-MW29	04/28/15	**8,900**	**11,000**	**930**	**4,400**	**47 J**	**280 J**	**170**	**620**	<25	**12,000**	<66	**1,200 J**	**2,600**	<1,900	<20	<150
08650-MW30	04/28/15	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0049	**9.8**	<0.25	<1.5	<0.66	<2.3	**110**	<19	<0.20	<1.5
08650-MW31	04/28/15	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0049	<0.30	<0.25	<1.5	<0.66	<2.3	<0.40	<19	<0.20	<1.5
08650-MW33	04/28/15	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0049	<0.30	<0.25	<1.5	<0.66	<2.3	<0.40	<19	<0.20	<1.5
08650-MW34	04/28/15	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0050	<0.30	<0.25	<1.5	<0.66	<2.3	<0.40	<19	<0.20	<1.5
08650-MW35	04/28/15	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0049	<0.30	<0.25	<1.5	<0.66	<2.3	<0.40	<19	<0.20	<1.5
08650-MW36	04/28/15	<1.1	**170**	**220**	**890**	<2.0	**88**	<0.0050	<1.5	<1.3	**140**	<3.3	<11	<2.0	<96	<1.0	<7.5
08650-MW37	04/28/15	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0049	<0.30	<0.25	<1.5	<0.66	<2.3	<0.40	<19	<0.20	<1.5
08650-MW38	04/28/15	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0049	<0.30	<0.25	<1.5	<0.66	<2.3	<0.40	<19	<0.20	<1.5
08650-MW39	04/28/15	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0050	<0.30	<0.25	<1.5	<0.66	<2.3	<0.40	<19	<0.20	<1.5
08650-MW40	04/28/15	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0050	<0.30	<0.25	<1.5	<0.66	<2.3	<0.40	<19	<0.20	<1.5
08650-MW41	04/27/15	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0050	<0.30	<0.25	<1.5	<0.66	<2.3	<0.40	<19	<0.20	<1.5
08650-MW42	04/27/15	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0050	<0.30	<0.25	<1.5	<0.66	<2.3	<0.40	<19	<0.20	<1.5
08650-MW43	04/27/15	<0.21	<1.7	<1.7	<1.7	<0.40	<1.7	<0.0050	<0.30	<0.25	<1.5	<0.66	<2.3	<0.40	<19	<0.20	<1.5
08650-PW01	04/29/15	**6,600**	**460 J**	<170	**1,300**	<40	<170	<0.0049	<30	<25	**2,500**	<66	**520 J**	**3,800**	<1,900	<20	<150
08650-DW01	04/29/15	**290**	<8.5	<8.5	<8.5	<2.0	**13 J**	<0.0050	<1.5	<1.3	**590**	<3.3	**64 J**	**170**	<96	<1.0	<7.5
08650-DW02	04/29/15	**4.7 J**	**440**	<8.5	<8.5	<2.0	<8.5	<0.0052	<1.5	<1.3	<7.5	<3.3	<11	<2.0	**620**	<1.0	<7.5
08650-DW03	04/28/15	**12 J**	**260**	**94**	**510**	<2.0	**24 J**	<0.0049	<1.5	<1.3	**48 J**	<3.3	<11	<2.0	<96	<1.0	<7.5
08650-DW04	04/28/15	**2.6 J**	**15**	**12**	**48**	<0.40	**5.1**	<0.0050	<0.30	<0.25	<1.5	<0.66	<2.3	**1.7 J**	<19	<0.20	<1.5
08650-DW05	04/29/15	**640**	<8.5	<8.5	<8.5	<2.0	**70**	<0.0049	<1.5	<1.3	**690**	<3.3	<11	**100**	<96	<1.0	<7.5
08650-DW06	04/29/15	**2.1 J**	**5.9**	<1.7	<1.7	<0.40	<1.7	<0.0050	<0.30	<0.25	<1.5	<0.66	<2.3	<0.40	<19	<0.20	<1.5
08650-RW01	04/29/15	**3,000**	**2,800**	**850**	**4,400**	**230 J**	**190 J**	**1.4**	<55	<13	**3,600**	<33	**1,500**	**4,200**	<960	<10	<75
08650-RW02	04/29/15	**36,000**	**34,000**	**1,900 J**	**12,000**	**11,000**	<850	**0.69**	<150	<130	**53,000**	<330	**9,500 J**	**24,000**	<9,600	<100	<750

Notes:

- Results reported in µg/L (micrograms/Liter), otherwise the unit will be in parenthesis behind the result.
- <: Less than the method detection limit.
- J: Result is equal to or greater than method detection limit and less than report limit.

LEGEND

- EXISTING GROUNDWATER MONITORING WELL
- EXISTING DEEP GROUNDWATER MONITORING WELL
- EXISTING RECOVERY WELL
- FREE-PRODUCT

100 50 0 100 200

APPROXIMATE SCALE IN FEET

REFERENCE:
DRAWING TITLED "SITE SURVEY" BY SOUTHER LAND SURVEYING, INC. DATED SEPTEMBER 17, 2012.

REVISIONS		
No.	DESCRIPTION	BY

DRAWN: ACE	DATE: 05-27-15		
CHECKED: RAD	CAD FILE: GEORGESOUGR-GWCOC		
APPROVED:	JOB NO: J14-7051-06		

BLE INC.
BUNNELL-LAMMONS ENGINEERING, INC.
6004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615
PHONE: (864)288-1265 FAX: (864)288-4430

GROUNDWATER COC MAP - APRIL 2015
GEORGE SOUTHER'S GROCERY
UST PERMIT #09660
CAMPOBELLO, SOUTH CAROLINA

FIGURE NO.
3

APPENDICES

APPENDIX A

DISPOSAL MANIFESTS

VLS recovery services, llc

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number 5-1-15 BW-BIC

GENERATOR

5. Generator's Name and Mailing Address
BUNNELL-LAMMON ENG, INC
6004 PONDERS COURT
GREENVILLE, SC 29615
Generator's Phone: 864-288-1265

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

6. Transporter 1 Company Name: BLE — U.S. EPA ID Number:

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

8. Designated Facility Name and Site Address
VLS RECOVERY SERVICES, LLC
305 S. MAIN STREET
MAULDIN, SC 29662
Facility's Phone: 864-962-9953
U.S. EPA ID Number: SCR000762468

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	NON HAZ NON REG WELL WATER #11312 (Purges) Enmark 300 Great Falls Hwy UST # 05545			267.5	G
2.	(development) Enmark 300 Great Falls Hwy UST #05545			174	G
3.	George Southern's Grocery Lamp Oberlo UST # 08650			390	G
4.	Enerea 300 Tigerville Travelers Rest UST # 16113			161	G

13. Special Handling Instructions and Additional Information

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: Brian K. White — Signature: Brian K. White — Month 5 Day 1 Year 15

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: Brian K. White — Signature: Brian K. White — Month 5 Day 1 Year 15

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: Brian Tipp II — Signature — Month 5 Day 1 Year 15

APPENDIX B

MONITORING WELL PURGING AND SAMPLING FIELD PROCEDURES AND MONITORING WELL PURGING AND SAMPLING LOGS

APPENDIX B

MONITORING WELL PURGING AND SAMPLING PROCEDURES

The monitoring wells were purged prior to sample collection to remove any stagnant water from the well so that the samples collected were representative of the groundwater quality in the vicinity of each well. For wells that recovered quickly, a minimum of three volumes of water were evacuated. Specific conductance, pH, water temperature, and turbidity were measured periodically during well evacuation using instruments which were calibrated daily. Wells that were evacuated to dryness with less than three well volumes being removed were sampled as soon as the well had recovered enough to yield sufficient volume for a sample.

The monitoring wells were purged using a 3-foot long by 1.6-inch diameter disposable polyethylene bailer attached to an unused polypropylene cord. The wells were also sampled using a bailer as described above. To minimize the potential for cross-contamination between wells, a new clean bailer was used at each well.

Samples were placed in the appropriate laboratory supplied containers and marked with identifying numbers. Samples were maintained at 4°Celsius in a refrigerated sample cooler and shipped to Shealy Environmental Services, Inc. in Columbia, South Carolina via courier service for analysis.

INSTRUMENT CALIBRATION AND FREQUENCY QUALITY ASSURANCE / QUALITY CONTROL (QA/QC)

All Instrument Calibration and frequency methods are consistent with the procedures as outlined in BLE's Annual Contractor Quality Assurance Plan (ACQAP). The following calibration standards were used for calibration purposes on April 27-29, 2015.

Quality Assurance			
pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU
Chain of Custody			
Reid A. Doherty	4/30/15 : 1051	Shealy	4/30/15 : 1051

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

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Date 4/29/15
Field Personnel RAD ; DRM
General weather Conditions Overcast
Ambient Air Temperature (°C) 14°

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-MW01

Well Diameter (D) 2 inch of 17.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness sheen ft
Total Well Depth (TWD) 17.00 ft btoc
Depth to Groundwater (DGW) 12.74 ft btoc
Length of Water Colum (LWC = TWD-DGW) 4.26 ft
1 Casing Volume (LWC*C) = 0.00 X .17 = 0.72 gals
3 Casing Volumes = 3 X 0.00 = 2.16 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 2.5 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	1.0	2.0	2.5						
Time (military)	0955	0958	1001	1005						
pH (s.u)	6.28	6.10	6.00	5.87						
Specific Conductivity (µS)	176.8	146.1	143.9	132.5						
Water Temperature (°C)	18.5	18.4	18.3	18.4						
Turbidity (NTU)	21.21	387	189.2	9.98						
Dissolved Oxygen (mg/l)	1.90	2.4	2.3	2.1						

* very strong petroleum odor & sheen.

Remarks: Well sampled at 1005 on 4/29/15.

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Date _____
Field Personnel _____
General weather Conditions _____
Ambient Air Temperature (°C) _____

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-MW02

Well Diameter (D) 2 inch of 17.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness — ft
Total Well Depth (TWD) 17.00 ft btoc
Depth to Groundwater (DGW) 16.90 ft btoc
Length of Water Colum (LWC = TWD-DGW) 0.10 ft
1 Casing Volume (LWC*C) = 0.00 X .17 = 0.02 gals
3 Casing Volumes = 3 X 0.00 = 0.06 gals
(Standard Purge Volume)

Dry

Total Volume of Water Purged Before Sampling _____ gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---									
Time (military)										
pH (s.u)										
Specific Conductivity (µS)										
Water Temperature (°C)										
Turbidity (NTU)										
Dissolved Oxygen (mg/l)										

Remarks: Well sampled at _____ on _____.

Not enough water to sample ; Dry.

BLE INC
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Field Data Information Sheet for Ground Water Sampling
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Date 4/29/15
Field Personnel RAD, DRM
General weather Conditions Overcast
Ambient Air Temperature (°C) 12°

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-MW02R

Well Diameter (D) 2 inch of 28.10 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness sheen ft
Total Well Depth (TWD) 28.10 ft btoc
Depth to Groundwater (DGW) 16.92 ft btoc
Length of Water Colum (LWC = TWD-DGW) 11.18 ft
1 Casing Volume (LWC*C) = 0.00 X .17 = 1.90 gals
3 Casing Volumes = 3 X 0.00 = 5.70 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 6.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	2.0	4.0	6.0						
Time (military)	0820	0824	0827	0830						
pH (s.u)	6.28	5.98	5.82	5.63						
Specific Conductivity (µS)	114.7	95.4	78.8	75.4						
Water Temperature (°C)	18.4	19.9	19.0	19.2						
Turbidity (NTU)	12.36	286	109.6	9.92						
Dissolved Oxygen (mg/l)	1.19	2.1	1.8	1.9						

* very strong petroleum odor & sheen.

Remarks: Well sampled at 0830 on 4/29/15.
Duplicate (MW02R DUP) sampled @ 0831 on 4/29/15.

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Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

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Date 4/29/15
Field Personnel RAA, DRM
General weather Conditions Partly Cloudy
Ambient Air Temperature (°C) 13°

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-MW03

Well Diameter (D) 2 inch of 19.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness sheen ft
Total Well Depth (TWD) 19.00 ft btoc
Depth to Groundwater (DGW) 13.63 ft btoc
Length of Water Colum (LWC = TWD-DGW) 5.37 ft
1 Casing Volume (LWC*C) = 0.00 X .17 = 0.91 gals
3 Casing Volumes = 3 X 0.00 = 2.73 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 3.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	1.0	2.0	3.0						
Time (military)	0850	0853	0856	0900						
pH (s.u)	5.68	5.92	5.97	6.05						
Specific Conductivity (µS)	334	319	298	287						
Water Temperature (°C)	17.5	17.8	17.9	18.0						
Turbidity (NTU)	17.89	308	186.4	9.99						
Dissolved Oxygen (mg/l)	0.75	1.1	0.7	0.8						

* Very strong petroleum odor & sheen

Remarks: Well sampled at 0900 on 4/29/15.

BLE INC

BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
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Date 4/29/15

Field Personnel RAD, DRM

General weather Conditions Partly Cloudy

Ambient Air Temperature (°C) 13°

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-MW03R

Well Diameter (D) 2 inch of 27.20 feet(ft) bgs

conversion factor (C): 3.143*(D/2)^2

for a 2 inch well C = 0.163

for a 4 inch well C = 0.652

*Free Product Thickness sheen ft

Total Well Depth (TWD) 27.20 ft btoc

Depth to Groundwater (DGW) 13.53 ft btoc

Length of Water Colum (LWC = TWD-DGW) 13.67 ft

1 Casing Volume (LWC*C) = 0.00 X .17 = 2.32 gals

3 Casing Volumes = 3 X 0.00 = 6.96 gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 7.9 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	2.5	5.0	7.9						
Time (military)	0905	0910	0915	0920						
pH (s.u)	6.20	6.27	6.17	6.18						
Specific Conductivity (µS)	288	122.7	178.7	165.4						
Water Temperature (°C)	17.5	18.2	18.4	18.3						
Turbidity (NTU)	74.83	389	192.3	9.72						
Dissolved Oxygen (mg/l)	0.88	0.9	1.2	1.3						

& very strong petroleum odor & sheen.

Remarks: Well sampled at 0920 on 4/29/15.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
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Page _____ of _____

Date 4/28/15
Field Personnel RAD, DRM
General weather Conditions Clear, Sunny
Ambient Air Temperature (°C) 19°

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-MW04

Well Diameter (D) 2 inch of 19.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness — ft
Total Well Depth (TWD) 19.00 ft btoc
Depth to Groundwater (DGW) 5.81 ft btoc
Length of Water Colum (LWC = TWD-DGW) 13.19 ft
1 Casing Volume (LWC*C) = 0.00 X .17 = 2.24 gals
3 Casing Volumes = 3 X 0.00 = 6.72 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 7.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	2.5	5.0	7.0						
Time (military)	1300	1303	1307	1310						
pH (s.u)	8.05	7.92	7.80	7.40						
Specific Conductivity (µS)	69.4	65.1	65.1	65.8						
Water Temperature (°C)	15.5	14.7	15.0	15.4						
Turbidity (NTU)	21.23	187.6	287	9.89						
Dissolved Oxygen (mg/l)	6.47	6.3	6.6	6.7						

Remarks: Well sampled at 1310 on 4/28/15.

BLE INC

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Field Data Information Sheet for Ground Water Sampling
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Date 4/27/15

Field Personnel RAD, DRM

General weather Conditions

Ambient Air Temperature (°C)

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-MW05

Well Diameter (D) 2 inch of 19.50 feet(ft) bgs

conversion factor (C): 3.143*(D/2)^2

for a 2 inch well C = 0.163

for a 4 inch well C = 0.652

*Free Product Thickness 0.21 ft

Total Well Depth (TWD) 19.50 ft btoc

Depth to Groundwater (DGW) 10.39 ft btoc

Length of Water Colum (LWC = TWD-DGW) _____ ft

1 Casing Volume (LWC*C) = 0.00 X .17 = _____ gals

3 Casing Volumes = 3 X 0.00 = _____ 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.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---									
Time (military)										
pH (s.u)										
Specific Conductivity (µS)										
Water Temperature (°C)										
Turbidity (NTU)										
Dissolved Oxygen (mg/l)										

Remarks: ~~Well sampled at on .~~ Not sampled due to 0.21-ft of free-product.

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Date 4/28/15
Field Personnel RAD, DRM
General weather Conditions Clear, Sunny
Ambient Air Temperature (°C) 21°

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-MW06R

Well Diameter (D) 2 inch of 20.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness — ft
Total Well Depth (TWD) 20.00 ft btoc
Depth to Groundwater (DGW) 8.17 ft btoc
Length of Water Colum (LWC = TWD-DGW) 11.83 ft
1 Casing Volume (LWC*C) = 0.00 X .17 = 2.01 gals
3 Casing Volumes = 3 X 0.00 = 6.03 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 6.5 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	2.5	5.0	6.5						
Time (military)	1525	1528	1531	1535						
pH (s.u)	5.97	6.11	6.10	5.91						
Specific Conductivity (µS)	220	194.9	185.7	185.0						
Water Temperature (°C)	17.5	15.5	15.6	15.9						
Turbidity (NTU)	21.84	488	217	2.82						
Dissolved Oxygen (mg/l)	3.87	4.1	4.2	4.3						

Remarks: Well sampled at 1535 on 4/28/15.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

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Date 4/28/15
Field Personnel RAD, DRM
General weather Conditions Clear, Sunny
Ambient Air Temperature (°C) 21°

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-MW07

Well Diameter (D) 2 inch of 19.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness Sheen ft
Total Well Depth (TWD) 19.00 ft btoc
Depth to Groundwater (DGW) 11.19 ft btoc
Length of Water Colum (LWC = TWD-DGW) 7.81 ft
1 Casing Volume (LWC*C) = 0.00 X .17 = 1.33 gals
3 Casing Volumes = 3 X 0.00 = 3.99 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 4.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	1.5	3.0	4.0						
Time (military)	1540	1543	1547	1550						
pH (s.u)	5.55	5.67	5.60	5.67						
Specific Conductivity (µS)	164.4	133.7	142.8	186.4						
Water Temperature (°C)	16.9	15.4	15.5	15.8						
Turbidity (NTU)	10.24	97.43	28.47	9.22						
Dissolved Oxygen (mg/l)	1.98	2.0	2.1	2.2						

* sheen & very strong petroleum odor.

Remarks: Well sampled at 1550 on 4/28/15.
Duplicate (MW-07 DUP) sampled @ 1551 on 4/28/15.

BLE INC

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Field Data Information Sheet for Ground Water Sampling
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Date 4/27/15

Field Personnel BRAD

General weather Conditions

Ambient Air Temperature (°C)

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-MW08

Well Diameter (D) 2 inch of 18.00 feet(ft) bgs

conversion factor (C): 3.143*(D/2)^2

for a 2 inch well C = 0.163

for a 4 inch well C = 0.652

*Free Product Thickness 0.03 ft

Total Well Depth (TWD) 18.00 ft btoc

Depth to Groundwater (DGW) 16.83 ft btoc

Length of Water Colum (LWC = TWD-DGW) _____ ft

1 Casing Volume (LWC*C) = 0.00 X .17 = _____ gals

3 Casing Volumes = 3 X 0.00 = _____ 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.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---									
Time (military)										
pH (s.u)										
Specific Conductivity (µS)										
Water Temperature (°C)										
Turbidity (NTU)										
Dissolved Oxygen (mg/l)										

Not sampled due to 0.03 ft of free-product.

Remarks: ~~Well sampled at on~~

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Date 4/29/15
Field Personnel RAD
General weather Conditions Partly Cloudy
Ambient Air Temperature (°C) 11°

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-MW09

Well Diameter (D) 2 inch of 24.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness sheen ft
Total Well Depth (TWD) 24.00 ft btoc
Depth to Groundwater (DGW) 17.12 ft btoc
Length of Water Colum (LWC = TWD-DGW) 6.88 ft
1 Casing Volume (LWC*C) = 0.00 X .17 = 1.17 gals
3 Casing Volumes = 3 X 0.00 = 3.51 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 4.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	1.5	3.0	4.0						
Time (military)	0750	0753	0757	0800						
pH (s.u)	6.33	6.92	6.99	6.16						
Specific Conductivity (µS)	224	232	233	242						
Water Temperature (°C)	18.5	18.9	19.2	19.2						
Turbidity (NTU)	9.75	187.3	98.21	8.86						
Dissolved Oxygen (mg/l)	1.74	1.8	1.7	1.8						

★ Very strong petroleum odor & sheen.

Remarks: Well sampled at 0800 on 4/29/15.
Duplicate (MW09-DUP) sampled @ 0801 on 4/29/15.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Page _____ of _____

Date 4/28/15
Field Personnel RAD
General weather Conditions Clear, Sunny
Ambient Air Temperature (°C) 17°

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-MW10R

Well Diameter (D) 2 inch of 17.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness — ft
Total Well Depth (TWD) 17.00 ft btoc
Depth to Groundwater (DGW) 5.08 ft btoc
Length of Water Colum (LWC = TWD-DGW) 11.92 ft
1 Casing Volume (LWC*C) = 0.00 X .17 = 2.03 gals
3 Casing Volumes = 3 X 0.00 = 6.09 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 5.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	2.5	5.0	N/S						
Time (military)	1225	1228	1235							
pH (s.u)	6.29	6.48	6.76							
Specific Conductivity (µS)	196	84.8	122.7							
Water Temperature (°C)	15.0	14.0	13.3							
Turbidity (NTU)	9.80	188.6	489							
Dissolved Oxygen (mg/l)	1.9	2.3	2.2							

Dry @ 5.0 gallons

Remarks: Well sampled at 1235 on 4/28/15.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Page _____ of _____

Date 4-28-05
Field Personnel DRM
General weather Conditions Sunny
Ambient Air Temperature (°C)

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-MW11

Well Diameter (D) 2 inch of 23.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness — ft
Total Well Depth (TWD) 23.00 ft btoc
Depth to Groundwater (DGW) 11.90 ft btoc
Length of Water Colum (LWC = TWD-DGW) 11.10 ft
1 Casing Volume (LWC*C) = 0.00 X .17 = 1.89 gals
3 Casing Volumes = 3 X 0.00 = 5.67 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 6.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	2.0	4.0	6.0						
Time (military)	~~1622~~ 1622	~~1625~~ 1625	~~1628~~ 1628	~~1631~~ 1638						
pH (s.u)	6.23	6.40	6.45	6.44						
Specific Conductivity (µS)	202	207	192	190						
Water Temperature (°C)	18.5	18.7	18.6	18.1						
Turbidity (NTU)	92	71	22	4.9						
Dissolved Oxygen (mg/l)	2.4	2.9	1.4	1.6						

Remarks: Well sampled at 1638 on 4-28-05.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Page _____ of _____

Date 4/28/15
Field Personnel RAD, DRM
General weather Conditions Clear, Sunny
Ambient Air Temperature (°C) 19°

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-MW12

Well Diameter (D) 2 inch of 25.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness — ft
Total Well Depth (TWD) 25.00 ft btoc
Depth to Groundwater (DGW) 12.50 ft btoc
Length of Water Colum (LWC = TWD-DGW) 12.50 ft
1 Casing Volume (LWC*C) = 0.00 X .17 = 2.13 gals
3 Casing Volumes = 3 X 0.00 = 6.39 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 6.5 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	2.5	5.0	6.5						
Time (military)	1400	1403	1407	1410						
pH (s.u)	8.76	8.75	8.52	8.36						
Specific Conductivity (µS)	25.4	20.0	18.88	17.27						
Water Temperature (°C)	17.1	15.3	15.2	15.3						
Turbidity (NTU)	21.21	284	187.4	9.77						
Dissolved Oxygen (mg/l)	8.56	6.4	6.3	6.2						

Remarks: Well sampled at 1410 on 4/28/15.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

MW-13R

Page _____ of _____

Date 4-28-15
Field Personnel DRM
General weather Conditions Sunny
Ambient Air Temperature (°C)

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-~~MW-13~~R

Well Diameter (D) 2 inch of 17.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness — ft
Total Well Depth (TWD) 17.00 ft btoc
Depth to Groundwater (DGW) ~~[illegible]~~ ft btoc 8.53
Length of Water Colum (LWC = TWD-DGW) ~~[illegible]~~ ft 8.47
1 Casing Volume (LWC*C) = 0.00 X .17 = ~~[illegible]~~ gals 1.44
3 Casing Volumes = 3 X 0.00 = ~~[illegible]~~ gals 4.32
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 5.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	2.0	4.0	5.0						
Time (military)	1531	1534	1536	1538						
pH (s.u) 5.59	~~[illegible]~~	~~[illegible]~~ 5.72	5.43	5.39						
Specific Conductivity (µS)	609.2	660.0	48.1	~~[illegible]~~ 47.6						
Water Temperature (°C)	14.9	13.2	13.2	13.2						
Turbidity (NTU)	82	121	21.0	7.3						
Dissolved Oxygen (mg/l)	2.1	2.3	3.5	3.4 ~~[illegible]~~						

Remarks: Well sampled at 1538 on 4-28-15

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Page _____ of _____

Date 4/28/15
Field Personnel RAD, DRM
General weather Conditions Clear Sunny
Ambient Air Temperature (°C) 17°

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-MW14R

Well Diameter (D) 2 inch of 25.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness — ft
Total Well Depth (TWD) 25.00 ft btoc
Depth to Groundwater (DGW) 1.92 ft btoc
Length of Water Colum (LWC = TWD-DGW) 23.08 ft
1 Casing Volume (LWC*C) = 0.00 X .17 = 3.92 gals
3 Casing Volumes = 3 X 0.00 = 11.76 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 5.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	4.0	5.0	~~[illegible]~~						
Time (military)	1125	1128	1135	~~[illegible]~~						
pH (s.u)	6.34	6.21	6.05							
Specific Conductivity (µS)	97.2	85.4	86.2							
Water Temperature (°C)	14.8	14.1	14.0							
Turbidity (NTU)	9.71	681	28.74							
Dissolved Oxygen (mg/l)	2.28	2.4	2.8							

Dry @ 5.0 gallons.

Remarks: Well sampled at 1135 on 4/28/15.

BLE INC

BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

MW-15R

Page _____ of _____

Date 4-28-15

Field Personnel DRM

General weather Conditions Sunny

Ambient Air Temperature (°C)

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-[redacted]

Well Diameter (D) 2 inch of 17.00 feet(ft) bgs

conversion factor (C): 3.143*(D/2)^2

for a 2 inch well C = 0.163

for a 4 inch well C = 0.652

*Free Product Thickness — ft

Total Well Depth (TWD) 17.00 ft btoc

Depth to Groundwater (DGW) [redacted] ft btoc 7.27

Length of Water Colum (LWC = TWD-DGW) [redacted] ft 9.73

1 Casing Volume (LWC*C) = 0.00 X .17 = [redacted] gals 1.65

3 Casing Volumes = 3 X 0.00 = [redacted] gals 4.95

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 5.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	1.5	3.0	4.5						
Time (military)	1450	1454	1459	1503						
pH (s.u)	6.48	6.27	6.07	6.17						
Specific Conductivity (µS)	124	120.3	121.3	120.6						
Water Temperature (°C)	15.3	14.2	13.7	14.2						
Turbidity (NTU)	79	29	12.3	7.9						
Dissolved Oxygen (mg/l)	3.2	2.8	4.2	4.3						

Remarks: Well sampled at 1503 on 4-28-15.

BLE INC

BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Page _____ of _____

Date 4/28/15

Field Personnel RAD

General weather Conditions Clear, Sunny

Ambient Air Temperature (°C) 15°

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-MW16

Well Diameter (D) 2 inch of 35.00 feet(ft) bgs

conversion factor (C): 3.143*(D/2)^2

for a 2 inch well C = 0.163

for a 4 inch well C = 0.652

*Free Product Thickness — ft

Total Well Depth (TWD) 35.00 ft btoc

Depth to Groundwater (DGW) 14.12 ft btoc

Length of Water Colum (LWC = TWD-DGW) 20.88 ft

1 Casing Volume (LWC*C) = 0.00 X .17 = 3.55 gals

3 Casing Volumes = 3 X 0.00 = 10.65 gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 11.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	4.0	8.0	11.0						
Time (military)	1020	1023	1024	1030						
pH (s.u)	5.51	5.36	5.16	4.86						
Specific Conductivity (µS)	51.0	39.9	33.7	35.7						
Water Temperature (°C)	17.0	16.2	16.2	16.4						
Turbidity (NTU)	9.22	27.36	14.39	7.29						
Dissolved Oxygen (mg/l)	3.24	3.21	3.36	3.25						

Remarks: Well sampled at 1030 on 4/28/15.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Page _____ of _____

Date _____
Field Personnel _____
General weather Conditions _____
Ambient Air Temperature (°C) _____

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-MW17

Well Diameter (D) 2 inch of 35.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness _____ ft
Total Well Depth (TWD) 35.00 ft btoc
Depth to Groundwater (DGW) _____ ft btoc
Length of Water Colum (LWC = TWD-DGW) _____ ft
1 Casing Volume (LWC*C) = 0.00 X .17 = _____ gals
3 Casing Volumes = 3 X 0.00 = _____ 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.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---									
Time (military)										
pH (s.u)										
Specific Conductivity (µS)										
Water Temperature (°C)										
Turbidity (NTU)										
Dissolved Oxygen (mg/l)										

Remarks: Well sampled at _____ on _____.

Not Located.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Page _____ of _____

Date 4-28-15
Field Personnel DZM
General weather Conditions Sunny
Ambient Air Temperature (°C)

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-MW18R

Well Diameter (D) 2 inch of 30.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness — ft
Total Well Depth (TWD) 30.00 ft btoc
Depth to Groundwater (DGW) 25.82 ft btoc
Length of Water Colum (LWC = TWD-DGW) 4.18 ft
1 Casing Volume (LWC*C) = 0.00 X .17 = 0.71 gals
3 Casing Volumes = 3 X 0.00 = 2.13 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 0.5 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	1.0	2.0	2.5						
Time (military)	1124									
pH (s.u)	5.80									
Specific Conductivity (µS)	602.6									
Water Temperature (°C)	18.2									
Turbidity (NTU)	421									
Dissolved Oxygen (mg/l)	3.6									

well dry after 0.5 gal purged

Remarks: Well sampled at 1124 on 4-28-15.

BLE INC

BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Page _____ of _____

Date 11-28-15

Field Personnel DRM

General weather Conditions Sunny

Ambient Air Temperature (°C)

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-MW19

Well Diameter (D) 2 inch of 40.00 feet(ft) bgs

conversion factor (C): 3.143*(D/2)^2

for a 2 inch well C = 0.163

for a 4 inch well C = 0.652

*Free Product Thickness — ft

Total Well Depth (TWD) 40.00 ft btoc

Depth to Groundwater (DGW) 21.67 ft btoc

Length of Water Colum (LWC = TWD-DGW) 18.33 ft

1 Casing Volume (LWC*C) = 0.00 X .17 = 3.12 gals

3 Casing Volumes = 3 X 0.00 = 9.36 gals

(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 9.5 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	3.5	7.0	9.5						
Time (military)	1144	1147	1149	1154						
pH (s.u)	5.64	5.68	5.70	5.67						
Specific Conductivity (µS)	96.6	96.6	96.8	98.4						
Water Temperature (°C)	18.9	17.9	17.9	18.3						
Turbidity (NTU)	194	84	21.2	9.7						
Dissolved Oxygen (mg/l)	3.2	2.0	1.8	1.9						

Remarks: Well sampled at 1154 on 4-28-15.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Page _____ of _____

Date 4-28-5
Field Personnel DFM
General weather Conditions Sunny
Ambient Air Temperature (°C)

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-MW20

Well Diameter (D) 2 inch of 36.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness — ft
Total Well Depth (TWD) 36.00 ft btoc
Depth to Groundwater (DGW) 23.52 ft btoc
Length of Water Colum (LWC = TWD-DGW) 12.48 ft
1 Casing Volume (LWC*C) = 0.00 X .17 = 2.12 gals
3 Casing Volumes = 3 X 0.00 = 6.36 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 6.5 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	2.5	5.0	6.5						
Time (military)	1221	1222	1224	1226						
pH (s.u)	5.25	5.06	5.08	5.03						
Specific Conductivity (µS)	62.8	62.2	62.3	61.3						
Water Temperature (°C)	18.8	18.1	18.6	18.6						
Turbidity (NTU)	191	72	21	6.4						
Dissolved Oxygen (mg/l)	2.6	2.7	2.2	2.2						

Remarks: Well sampled at 1226 on 4-28-5.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Page _____ of _____

Date 4/28/15
Field Personnel RAD
General weather Conditions Clear, Sunny
Ambient Air Temperature (°C) 70°

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-MW21

Well Diameter (D) 2 inch of 20.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness — ft
Total Well Depth (TWD) 20.00 ft btoc
Depth to Groundwater (DGW) 5.95 ft btoc
Length of Water Colum (LWC = TWD-DGW) 14.05 ft
1 Casing Volume (LWC*C) = 0.00 X .17 = 2.39 gals
3 Casing Volumes = 3 X 0.00 = 7.17 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 2.5 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	2.5	~~2.5~~	~~2.5~~						
Time (military)	0840	0850	0847	~~0854~~						
pH (s.u)	5.19	5.26								
Specific Conductivity (µS)	29.0	22.0								
Water Temperature (°C)	13.2	13.2								
Turbidity (NTU)	23.41	309								
Dissolved Oxygen (mg/l)	5.24	4.7								

Dry @ 2.5 gallons.

Remarks: Well sampled at 0850 on 4/28/15.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

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Date 4-28-15
Field Personnel DRM
General weather Conditions sunny
Ambient Air Temperature (°C)

Facility Name: George Souther's Grocery Site ID# 08650

Well # 08650-MW22

Well Diameter (D) 2 inch of 20.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness ft
Total Well Depth (TWD) 17.57 ~~20.00~~ ft btoc
Depth to Groundwater (DGW) 7.21 ft btoc
Length of Water Colum (LWC = TWD-DGW) ~~12.79~~ ft 10.36
1 Casing Volume (LWC*C) = 0.00 X .17 = ~~2.17~~ gals 1.76
3 Casing Volumes = 3 X 0.00 = ~~6.51~~ gals 5.28
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling ~~4.75~~ 5.5 gals

*If free product is present over 1/8 inch, sampling will not be required.

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	~~2~~ 1.5	~~4~~ 3.5	~~4.75~~ 5.5						
Time (military)	0940	0945	0948	0951						
pH (s.u)	6.08	6.05	5.95	5.95						
Specific Conductivity (µS)	64.3	36.4	32.4	16.8						
Water Temperature (°C)	15.7	14.3	14.1	14.3						
Turbidity (NTU)	172	71	21	7.9						
Dissolved Oxygen (mg/l)	2.6	3.0	3.2	3.5						

Remarks: Well sampled at 0951 on 4-28-15. DESTROYED; Needs new well pad & manhole cover; had to cut PVC to access water.

BLE INC

BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Page _____ of _____

Date 4/28/15
Field Personnel RAD
General weather Conditions Clear, Sunny
Ambient Air Temperature (°C) 14°

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-MW23

Well Diameter (D) 2 inch of 23.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness — ft
Total Well Depth (TWD) 23.00 ft btoc
Depth to Groundwater (DGW) 14.53 ft btoc
Length of Water Colum (LWC = TWD-DGW) 8.47 ft
1 Casing Volume (LWC*C) = 0.00 X .17 = 1.44 gals
3 Casing Volumes = 3 X 0.00 = 4.32 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 4.5 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	1.5	3.0	4.5						
Time (military)	0840	0943	0948	0950						
pH (s.u)	4.80	4.74	4.68	4.67						
Specific Conductivity (µS)	16.54	17.73	17.61	17.76						
Water Temperature (°C)	16.0	15.7	15.5	15.5						
Turbidity (NTU)	9.77	181.3	92.38	9.81						
Dissolved Oxygen (mg/l)	8.23	6.9	7.2	7.6						

Remarks: Well sampled at 0950 on 4/28/15.

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BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

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Date 4/28/15
Field Personnel RAD
General weather Conditions Clear, Sunny
Ambient Air Temperature (°C) 15°

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-MW24

Well Diameter (D) 2 inch of 20.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness — ft
Total Well Depth (TWD) 20.00 ft btoc
Depth to Groundwater (DGW) 6.43 ft btoc
Length of Water Colum (LWC = TWD-DGW) 13.57 ft
1 Casing Volume (LWC*C) = 0.00 X .17 = 2.31 gals
3 Casing Volumes = 3 X 0.00 = 6.93 gals
(Standard Purge Volume)

well is 20' bgs

Total Volume of Water Purged Before Sampling 7.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	2.5	5.0	7.0						
Time (military)	1315	1318	1321	1325						
pH (s.u)	10.67	10.81	11.19	11.27						
Specific Conductivity (µS)	1,317	946	1,315	1,317						
Water Temperature (°C)	17.0	16.2	17.4	17.2						
Turbidity (NTU)	7.42	27.80	7.24	4.81						
Dissolved Oxygen (mg/l)	3.87	4.1	3.9	4.0						

Remarks: Well sampled at 1325 on 4/28/15.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

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Date 4-28-15
Field Personnel DPM
General weather Conditions Sunny
Ambient Air Temperature (°C)

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-MW25

Well Diameter (D) 2 inch of 20.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness — ft
Total Well Depth (TWD) 20.00 ft btoc
Depth to Groundwater (DGW) 6.54 ft btoc
Length of Water Colum (LWC = TWD-DGW) 13.46 ft
1 Casing Volume (LWC*C) = 0.00 X .17 = 2.29 gals
3 Casing Volumes = 3 X 0.00 = 6.87 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 4.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	2.5	40.5	7.0						
Time (military)	1424	1434	1438							
pH (s.u)	7.82	6.56	6.61							
Specific Conductivity (µS)	185.6	183.3	185.8							
Water Temperature (°C)	15.4	14.2	13.9							
Turbidity (NTU)	1086	122	118							
Dissolved Oxygen (mg/l)	2.3	3.1	3.8							

well purged dry after 4.0 gallon

Remarks: Well sampled at 1438 on 4-28-15.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

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Date 4/28/15
Field Personnel RAD
General weather Conditions Clear, Sunny
Ambient Air Temperature (°C) 17°

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-MW26

Well Diameter (D) 2 inch of 17.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness — ft
Total Well Depth (TWD) 17.00 ft btoc
Depth to Groundwater (DGW) 2.49 ft btoc
Length of Water Colum (LWC = TWD-DGW) 14.51 ft
1 Casing Volume (LWC*C) = 0.00 X .17 = 2.47 gals
3 Casing Volumes = 3 X 0.00 = 7.41 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 4.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	2.5	4.0	~~7.5~~						
Time (military)	1140	1143	1150	1150						
pH (s.u)	5.75	5.71	5.60							
Specific Conductivity (µS)	103.5	84.3	81.0							
Water Temperature (°C)	15.4	14.9	15.1							
Turbidity (NTU)	21.82	108.6	207							
Dissolved Oxygen (mg/l)	2.56	2.7	4.0							

Dry @ 4.00 gallons

Remarks: Well sampled at 1150 on 4/28/15.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

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Date 4/28/15
Field Personnel RAD, DRM
General weather Conditions Clear, Sunny
Ambient Air Temperature (°C) 21°

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-MW27

Well Diameter (D) 2 inch of 17.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness — ft
Total Well Depth (TWD) 17.00 ft btoc
Depth to Groundwater (DGW) 2.89 ft btoc
Length of Water Colum (LWC = TWD-DGW) 14.11 ft
1 Casing Volume (LWC*C) = 0.00 X .17 = 2.40 gals
3 Casing Volumes = 3 X 0.00 = 7.20 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 7.5 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	2.5	5.0	7.5						
Time (military)	1500	1503	1506	1510						
pH (s.u)	6.14	6.03	5.98	5.96						
Specific Conductivity (µS)	187.9	188.0	180.1	180.3						
Water Temperature (°C)	16.4	15.1	15.5	15.2						
Turbidity (NTU)	9.70	307	173.6	9.99						
Dissolved Oxygen (mg/l)	2.22	3.6	2.7	3.4						

A strong petroleum odor.

Remarks: Well sampled at 1510 on 4/28/15.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

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Date 4/28/15
Field Personnel RAD, DRM
General weather Conditions Clear, Sunny
Ambient Air Temperature (°C) 21°

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-MW28

Well Diameter (D) 2 inch of 25.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness — ft
Total Well Depth (TWD) 25.00 ft btoc
Depth to Groundwater (DGW) 10.31 ft btoc
Length of Water Colum (LWC = TWD-DGW) 14.69 ft
1 Casing Volume (LWC*C) = 0.00 X .17 = 2.50 gals
3 Casing Volumes = 3 X 0.00 = 7.50 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 7.5 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	2.5	5.0	7.5						
Time (military)	1445	1448	1451	1455						
pH (s.u)	6.32	6.30	6.28	6.21						
Specific Conductivity (µS)	193.6	185	257	322						
Water Temperature (°C)	16.5	14.8	14.7	15.2						
Turbidity (NTU)	17.41	184.3	79.82	9.94						
Dissolved Oxygen (mg/l)	1.90	2.1	2.2	2.4						

* very strong petroleum odor.

Remarks: Well sampled at 1455 on 4/28/15.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

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Date 4/28/15
Field Personnel RAD, DRM
General weather Conditions Clear, Sunny
Ambient Air Temperature (°C) 20°

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-MW29

Well Diameter (D) 2 inch of 30.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness — ft
Total Well Depth (TWD) 30.00 ft btoc
Depth to Groundwater (DGW) 17.67 ft btoc
Length of Water Colum (LWC = TWD-DGW) 12.33 ft
1 Casing Volume (LWC*C) = 0.00 X .17 = 2.10 gals
3 Casing Volumes = 3 X 0.00 = 6.30 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 6.5 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	2.5	5.0	6.5						
Time (military)	1420	1423	1427	1430						
pH (s.u)	7.39	7.09	6.87	6.69						
Specific Conductivity (µS)	255	308	344	324						
Water Temperature (°C)	17.9	17.4	17.8	17.7						
Turbidity (NTU)	23.49	287	176.8	7.89						
Dissolved Oxygen (mg/l)	1.89	2.0	2.2	6.9						

* Strong petroleum odor.

Remarks: Well sampled at 1430 on 4/28/15.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

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Date 4-28-15
Field Personnel DRM
General weather Conditions sunny
Ambient Air Temperature (°C)

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-MW30

Well Diameter (D) 2 inch of 30.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness — ft
Total Well Depth (TWD) 30.00 ft btoc
Depth to Groundwater (DGW) 24.97 ft btoc
Length of Water Colum (LWC = TWD-DGW) 5.03 ft
1 Casing Volume (LWC*C) = 0.00 X .17 = 0.86 gals
3 Casing Volumes = 3 X 0.00 = 2.58 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 1.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	~~4th Vol.~~ 1st	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	1.0	2.0	3.0	1.0					
Time (military)	1026				1041					
pH (s.u)	5.74				5.51					
Specific Conductivity (µS)	55.3				37.9					
Water Temperature (°C)	18.9				18.8					
Turbidity (NTU)	221				121					
Dissolved Oxygen (mg/l)	4.6				4.9					

well purged dry after 1.0 gallons

Remarks: Well sampled at 1041 on 4-28-15.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

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Date 4-28-15
Field Personnel DRM
General weather Conditions Sunny
Ambient Air Temperature (°C)

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-MW31

Well Diameter (D) 2 inch of 30.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness — ft
Total Well Depth (TWD) 30.00 ft btoc
Depth to Groundwater (DGW) 21.14 ft btoc
Length of Water Colum (LWC = TWD-DGW) 8.86 ft
1 Casing Volume (LWC*C) = 0.00 X .17 = 1.51 gals
3 Casing Volumes = 3 X 0.00 = 4.53 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 5.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	2.0	4.0	5.0						
Time (military)	1045	1047	1051	1054						
pH (s.u)	4.82	5.15	4.81	4.87						
Specific Conductivity (µS)	26.8	26.0	23.8	23.4						
Water Temperature (°C)	18.5	18.1	18.7	18.4						
Turbidity (NTU)	124	67	21	7.8						
Dissolved Oxygen (mg/l)	4.8	5.0	5.3	5.0						

Remarks: Well sampled at 1054 on 4-28-15.

BLE INC

BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

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Date 4/27/15

Field Personnel RAD, DRM

General weather Conditions

Ambient Air Temperature (°C)

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-MW32

Well Diameter (D) 2 inch of 30.00 feet(ft) bgs

conversion factor (C): 3.143*(D/2)^2

for a 2 inch well C = 0.163

for a 4 inch well C = 0.652

*Free Product Thickness 0.40 ft

Total Well Depth (TWD) 30.00 ft btoc

Depth to Groundwater (DGW) 18.97/ 19.37 ft btoc

Length of Water Colum (LWC = TWD-DGW) _____ ft

1 Casing Volume (LWC*C) = 0.00 X .17 = _____ gals

3 Casing Volumes = 3 X 0.00 = _____ 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.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---									
Time (military)										
pH (s.u)										
Specific Conductivity (µS)										
Water Temperature (°C)										
Turbidity (NTU)										
Dissolved Oxygen (mg/l)										

Not sampled due to 0.40 ft of free-product.

Remarks: ~~Well sampled at _____ on _____~~

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

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Date 4-28-15
Field Personnel DRM
General weather Conditions Sunny
Ambient Air Temperature (°C)

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-MW33

Well Diameter (D) 2 inch of 40.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness	—	ft
Total Well Depth (TWD)	40.00	ft btoc
Depth to Groundwater (DGW)	24.10	ft btoc
Length of Water Colum (LWC = TWD-DGW)	15.90	ft
1 Casing Volume (LWC*C) = 0.00 X .17 =	2.70	gals
3 Casing Volumes = 3 X 0.00 = (Standard Purge Volume)	8.10	gals

Total Volume of Water Purged Before Sampling 0.5 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	~~2.0~~	6.0	8.5						
Time (military)	1303	1308								
pH (s.u)	7.08									
Specific Conductivity (µS)	140.8									
Water Temperature (°C)	18.1									
Turbidity (NTU)	324									
Dissolved Oxygen (mg/l)	1.9									

well purged dry after 0.5 gallons

Remarks: Well sampled at 1308 on 4-28-15.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

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Date 4-28-15
Field Personnel DJM
General weather Conditions Sunny
Ambient Air Temperature (°C)

Facility Name: George Souther's Grocery Site ID# 08650

Well # 08650-MW34

Well Diameter (D) 2 inch of 40.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness — ft
Total Well Depth (TWD) 40.00 ft btoc
Depth to Groundwater (DGW) 20.04 ft btoc
Length of Water Colum (LWC = TWD-DGW) 19.96 ft
1 Casing Volume (LWC*C) = 0.00 X .17 = 3.39 gals
3 Casing Volumes = 3 X 0.00 = 10.17 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 1.25 gals

*If free product is present over 1/8 inch, sampling will not be required.

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	3.5	7.0	10.5						
Time (military)	1316									
pH (s.u)	6.89									
Specific Conductivity (µS)	99.2									
Water Temperature (°C)	17.9									
Turbidity (NTU)	16.3									
Dissolved Oxygen (mg/l)	4.5									

well purged dry after 1.25 gallons

Remarks: Well sampled at 1321 on 4-28-15.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

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Date 4/28/15
Field Personnel RAD
General weather Conditions Clear, Sunny
Ambient Air Temperature (°C) 15°

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-MW35

Well Diameter (D) 2 inch of 30.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness — ft
Total Well Depth (TWD) 30.00 ft btoc
Depth to Groundwater (DGW) 19.39 ft btoc
Length of Water Colum (LWC = TWD-DGW) 10.61 ft
1 Casing Volume (LWC*C) = 0.00 X .17 = 1.80 gals
3 Casing Volumes = 3 X 0.00 = 5.40 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 2.5 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	2.5	4.0	5.5						
Time (military)	0955	1000								
pH (s.u)	4.82	5.23								
Specific Conductivity (µS)	49.7	48.5								
Water Temperature (°C)	16.5	16.4								
Turbidity (NTU)	18.28	409								
Dissolved Oxygen (mg/l)	6.61	7.2								

Dry @ 2.5 gallons

Remarks: Well sampled at 1005 on 4/28/15.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

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Date 4/28/15
Field Personnel KAD, DRM
General weather Conditions Clear, Sunny
Ambient Air Temperature (°C) 15°

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-MW36

Well Diameter (D) 2 inch of 25.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness — ft
Total Well Depth (TWD) 25.00 ft btoc
Depth to Groundwater (DGW) 13.76 ft btoc
Length of Water Colum (LWC = TWD-DGW) 11.24 ft
1 Casing Volume (LWC*C) = 0.00 X .17 = 1.91 gals
3 Casing Volumes = 3 X 0.00 = 5.73 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 6.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	2.0	4.0	6.0						
Time (military)	1040	1043	1047	1050						
pH (s.u)	4.97	5.42	5.48	5.86						
Specific Conductivity (µS)	111.6	156.3	182	209						
Water Temperature (°C)	16.9	15.6	15.5	15.5						
Turbidity (NTU)	10.04	221	189.2	8.86						
Dissolved Oxygen (mg/l)	2.80	3.4	4.1	3.6						

* ~~slight~~ Strong petroleum odor.

Remarks: Well sampled at 1050 on 4/28/15.

Rum.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

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Date 4/28/15
Field Personnel RAD
General weather Conditions Clear, Sunny
Ambient Air Temperature (°C) 13°

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-MW37

Well Diameter (D) 2 inch of 17.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness — ft
Total Well Depth (TWD) 17.00 ft btoc
Depth to Groundwater (DGW) 12.83 ft btoc
Length of Water Colum (LWC = TWD-DGW) 4.17 ft
1 Casing Volume (LWC*C) = 0.00 X .17 = 0.71 gals
3 Casing Volumes = 3 X 0.00 = 2.13 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 1.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	1.0								
Time (military)	0905	0915								
pH (s.u)	5.03	4.94								
Specific Conductivity (µS)	23.6	21.9								
Water Temperature (°C)	14.4	14.4								
Turbidity (NTU)	39.47	184.1								
Dissolved Oxygen (mg/l)	3.9	4.3								

Dry @ 1.0 gallons

Remarks: Well sampled at 0915 on 4/28/15.

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BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

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Date 4/28/15
Field Personnel RAD
General weather Conditions Clear, Sunny
Ambient Air Temperature (°C) 7°

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-MW38

Well Diameter (D) 2 inch of 17.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness — ft
Total Well Depth (TWD) 17.00 ft btoc
Depth to Groundwater (DGW) 14.40 ft btoc
Length of Water Colum (LWC = TWD-DGW) 2.60 ft
1 Casing Volume (LWC*C) = 0.00 X .17 = 0.44 gals
3 Casing Volumes = 3 X 0.00 = 1.32 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 1.5 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	0.5	1.0	1.5						
Time (military)	0810	0812	0816	0820						
pH (s.u)	6.18	6.11	6.08	6.07						
Specific Conductivity (µS)	89.7	79.3	75.3	74.7						
Water Temperature (°C)	14.7	14.5	14.8	14.9						
Turbidity (NTU)	28.49	98.37	28.61	9.72						
Dissolved Oxygen (mg/l)	5.20	5.6	5.7	5.8						

Replaced well cap

Remarks: Well sampled at 0820 on 4/28/15.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

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Date 4/28/15
Field Personnel RAD
General weather Conditions Clear, Sunny
Ambient Air Temperature (°C) 70

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-MW39

Well Diameter (D) 2 inch of 17.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness — ft
Total Well Depth (TWD) 17.00 ft btoc
Depth to Groundwater (DGW) 9.98 ft btoc
Length of Water Colum (LWC = TWD-DGW) 7.02 ft
1 Casing Volume (LWC*C) = 0.00 X .17 = 1.19 gals
3 Casing Volumes = 3 X 0.00 = 3.57 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 4.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	1.5	3.0	4.0						
Time (military)	0825	0828	0831	0835						
pH (s.u)	5.81	5.61	5.49	5.34						
Specific Conductivity (µS)	24.3	24.5	27.1	26.6						
Water Temperature (°C)	14.0	13.9	14.1	14.2						
Turbidity (NTU)	19.83	199.3	87.61	9.27						
Dissolved Oxygen (mg/l)	6.82	6.6	6.7	6.7						

Remarks: Well sampled at 0835 on 4/28/15.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

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Date 4-28-15
Field Personnel DRM
General weather Conditions sunny
Ambient Air Temperature (°C)

Facility Name: George Souther's Grocery Site ID# 08650

Well # 08650-MW40

Well Diameter (D) 2 inch of 40.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness — ft
Total Well Depth (TWD) 40.00 ft btoc
Depth to Groundwater (DGW) 27.32 ft btoc
Length of Water Colum (LWC = TWD-DGW) 12.68 ft
1 Casing Volume (LWC*C) = 0.00 X .17 = 2.16 gals
3 Casing Volumes = 3 X 0.00 = 6.47 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 2.5 gals

*If free product is present over 1/8 inch, sampling will not be required.

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	2.5	5.0	6.5						
Time (military)	1240	1253								
pH (s.u)	5.96	7.04								
Specific Conductivity (µS)	190	340								
Water Temperature (°C)	17.4	17.3								
Turbidity (NTU)	89	124								
Dissolved Oxygen (mg/l)	2.4	5.9								

Dry after 2.5 gallons purged

Remarks: Well sampled at 1253 on 4-28-15.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

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Date 4/27/15
Field Personnel RAD, DRM
General weather Conditions Clear Sunny
Ambient Air Temperature (°C) 23°

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-MW41

Well Diameter (D) 2 inch of 40.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness — ft
Total Well Depth (TWD) 40.00 ft btoc
Depth to Groundwater (DGW) 23.61 ft btoc
Length of Water Colum (LWC = TWD-DGW) 16.39 ft
1 Casing Volume (LWC*C) = 0.00 X .17 = 2.79 gals
3 Casing Volumes = 3 X 0.00 = 8.37 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 8.5 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	3.0	6.0	8.5						
Time (military)	1558	1601	1604	1610						
pH (s.u)	6.36	6.28	6.20	6.15						
Specific Conductivity (µS)	134.3	128.4	112.6	113.0						
Water Temperature (°C)	17.4	16.9	16.9	17.0						
Turbidity (NTU)	9.82	187.4	43.81	9.72						
Dissolved Oxygen (mg/l)	2.57	3.1	3.0	3.0						

Remarks: Well sampled at 1610 on 4/27/15.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

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Date 4/27/15
Field Personnel RAD, DRM
General weather Conditions Clear, Sunny
Ambient Air Temperature (°C)

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-MW42

Well Diameter (D) 2 inch of 40.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness – ft
Total Well Depth (TWD) 40.00 ft btoc
Depth to Groundwater (DGW) 22.79 ft btoc
Length of Water Colum (LWC = TWD-DGW) 17.21 ft
1 Casing Volume (LWC*C) = 0.00 X .17 = 2.93 gals
3 Casing Volumes = 3 X 0.00 = 8.79 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 9.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	3.0	6.0	9.0						
Time (military)	1544	1548	1553	1559						
pH (s.u)	6.14	6.44	6.47	6.41						
Specific Conductivity (µS)	132.8	128.6	109.2	110.7						
Water Temperature (°C)	17.3	17.1	16.5	16.2						
Turbidity (NTU)	7.28	224	183.6	8.87						
Dissolved Oxygen (mg/l)	3.79	3.8	3.9	3.6						

Remarks: Well sampled at 1559 on 4-27-15.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

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Date 4/27/15
Field Personnel RAD, DRM
General weather Conditions Clear, Sunny
Ambient Air Temperature (°C) 23°

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-MW43

Well Diameter (D) 2 inch of 40.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness — ft
Total Well Depth (TWD) 40.00 ft btoc
Depth to Groundwater (DGW) 22.74 ft btoc
Length of Water Colum (LWC = TWD-DGW) 17.26 ft
1 Casing Volume (LWC*C) = 0.00 X .17 = 2.93 gals
3 Casing Volumes = 3 X 0.00 = 8.79 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 9.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	3.0	6.0	9.0						
Time (military)	1615	1618	1621	1625						
pH (s.u)	6.01	5.43	5.19	4.94						
Specific Conductivity (µS)	38.5	36.7	38.3	37.1						
Water Temperature (°C)	17.5	16.4	16.2	16.2						
Turbidity (NTU)	9.78	286	109.4	8.87						
Dissolved Oxygen (mg/l)	6.63	6.4	6.2	6.1						

Remarks: Well sampled at 1625 on 4/27/15.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

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Date 11-19-15
Field Personnel DRM
General weather Conditions Sunny
Ambient Air Temperature (°C)

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-PMW01

Well Diameter (D) 2 inch of 47.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness — ft
Total Well Depth (TWD) 47.00 ft btoc
Depth to Groundwater (DGW) 12.53 ft btoc
Length of Water Colum (LWC = TWD-DGW) 34.47 ft
1 Casing Volume (LWC*C) = 0.00 X .17 = 5.86 gals
3 Casing Volumes = 3 X 0.00 = 17.58 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.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	6.0	12.0	18.0						
Time (military)	833	0838	840	0846						
pH (s.u)	6.85	6.65	6.81	7.00						
Specific Conductivity (µS)	220	285	333	363						
Water Temperature (°C)	18.8	19.0	19.0	18.4						
Turbidity (NTU)	2.8	1.4	3.3	3.2						
Dissolved Oxygen (mg/l)	741	118	91	8.4						

Remarks: Well sampled at 846 on 4-29-15.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Page _____ of _____

Date _____
Field Personnel _____
General weather Conditions _____
Ambient Air Temperature (°C) _____

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-PMW02

Well Diameter (D) ~~2~~ 4 inch of 75.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness _____ ft
Total Well Depth (TWD) 75.00 ft btoc
Depth to Groundwater (DGW) DRY ~~8.78~~ ft btoc
Length of Water Colum (LWC = TWD-DGW) 66.22 ft
1 Casing Volume (LWC*C) = 0.00 X .17 = 11.26 gals
3 Casing Volumes = 3 X 0.00 = 33.78 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.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	11.5	23.0	34.0						
Time (military)										
pH (s.u)										
Specific Conductivity (µS)										
Water Temperature (°C)										
Turbidity (NTU)										
Dissolved Oxygen (mg/l)										

well dry

Remarks: Well sampled at _____ on _____.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Page _____ of _____

Date 4/22/15
Field Personnel ZAD, DRM
General weather Conditions
Ambient Air Temperature (°C)

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-PMW03

Well Diameter (D) 2 inch of 0.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness — ft
Total Well Depth (TWD) 10.55 ft btoc
Depth to Groundwater (DGW) Dry ft btoc
Length of Water Colum (LWC = TWD-DGW) ? ft
1 Casing Volume (LWC*C) = 0.00 X .17 = _____ gals
3 Casing Volumes = 3 X 0.00 = _____ 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.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---									
Time (military)										
pH (s.u)										
Specific Conductivity (µS)										
Water Temperature (°C)										
Turbidity (NTU)										
Dissolved Oxygen (mg/l)										

Remarks: Well sampled at _____ on _____. Dry

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Page _____ of _____

Date 4-29-15
Field Personnel DRM
General weather Conditions sunny
Ambient Air Temperature (°C)

Facility Name: George Souther's Grocery Site ID# 08650

Well # 08650-DW01

Well Diameter (D) 2 inch of 90.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness — ft
Total Well Depth (TWD) ~~90.00~~ ft btoc 73.50
Depth to Groundwater (DGW) 13.99 ft btoc
Length of Water Colum (LWC = TWD-DGW) ~~76.01~~ ft 59.54
1 Casing Volume (LWC*C) = 0.00 X .17 = ~~12.92~~ gals 10.12
3 Casing Volumes = 3 X 0.00 = ~~38.76~~ gals 30.36
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 30.5 gals

*If free product is present over 1/8 inch, sampling will not be required.

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

	Initial	1st Vol. 10	2nd Vol. 20	3rd Vol. 30.5	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	~~18.0~~	~~26.0~~	~~39.0~~						
Time (military)	903	911	917	921						
pH (s.u)	7.03	6.80	6.62	6.57						
Specific Conductivity (µS)	199.9	393	308	291						
Water Temperature (°C)	18.4	18.4	18.2	17.9						
Turbidity (NTU)	118	153	28	9.6						
Dissolved Oxygen (mg/l)	2.7	1.6	1.8	1.4						

Remarks: Well sampled at 921 on 4-29-15.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Page _____ of _____

Date 4-29-15
Field Personnel DRA
General weather Conditions Cloudy
Ambient Air Temperature (°C)

Facility Name: George Souther's Grocery Site ID# 08650

Well # 08650-DW02

Well Diameter (D) 2 inch of 75.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness — ft
Total Well Depth (TWD) ~~75.00~~ ft btoc 84.00
Depth to Groundwater (DGW) 8.71 ~~8.71~~ ft btoc
Length of Water Colum (LWC = TWD-DGW) ~~66.29~~ ft 75.29
1 Casing Volume (LWC*C) = 0.00 X .17 = ~~11.27~~ gals 12.80
3 Casing Volumes = 3 X 0.00 = ~~33.81~~ gals 38.4
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 13.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

	Initial	1st Vol.	2nd Vol. 25	3rd Vol. 39	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	11.5	~~25~~.0	34.0						
Time (military)	1029	1052								
pH (s.u)	5.67	5.91								
Specific Conductivity (µS)	186.7	192.8								
Water Temperature (°C)	17.7	17.5								
Turbidity (NTU)	99	76								
Dissolved Oxygen (mg/l)	1.4	1.7								

Dry after 13.0 gallons

Remarks: Well sampled at 1052 on 4-29-15

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Page _____ of _____

Date 4-28-15
Field Personnel DRM
General weather Conditions Sunny
Ambient Air Temperature (°C)

Facility Name: George Souther's Grocery Site ID# 08650

Well # 08650-DW03

Well Diameter (D) 2 inch of 65.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness — ft
Total Well Depth (TWD) 65.00 ft btoc
Depth to Groundwater (DGW) 11.68 ft btoc
Length of Water Colum (LWC = TWD-DGW) 53.32 ft
1 Casing Volume (LWC*C) = 0.00 X .17 = 9.06 gals
3 Casing Volumes = 3 X 0.00 = 27.18 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 27.5 gals

*If free product is present over 1/8 inch, sampling will not be required.

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	9.5	19.0	27.5						
Time (military)	1559	1602	1607	1614						
pH (s.u)	5.34	5.34	5.57	5.68						
Specific Conductivity (µS)	50.1	56.3	60.9	63.4						
Water Temperature (°C)	18.4	17.9	17.7	17.8						
Turbidity (NTU)	742	95.1	71.7	8.3						
Dissolved Oxygen (mg/l)	4.8	4.1	4.4	6.6						

Remarks: Well sampled at 1614 on 4/28/15.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Page _____ of _____

Date 4-28-15
Field Personnel DRM
General weather Conditions Sunny
Ambient Air Temperature (°C)

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-DW04

Well Diameter (D) 2 inch of 67.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness — ft
Total Well Depth (TWD) 67.00 ft btoc
Depth to Groundwater (DGW) 2.21 ft btoc
Length of Water Colum (LWC = TWD-DGW) 64.79 ft
1 Casing Volume (LWC*C) = 0.00 X .17 = 11.35 gals
3 Casing Volumes = 3 X 0.00 = 34.05 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 13.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	11.5	23.0	34.5						
Time (military)	1350	1354								
pH (s.u)	7.61	8.31								
Specific Conductivity (µS)	334	321								
Water Temperature (°C)	19.2	19.9								
Turbidity (NTU)	521	129								
Dissolved Oxygen (mg/l)	2.2	1.8								

well purged dry after 13.0 gallons

Remarks: Well sampled at 1414 on 4-28-15.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Page _____ of _____

Date 4-29-15
Field Personnel DRM
General weather Conditions sunny
Ambient Air Temperature (°C)

Facility Name: George Souther's Grocery Site ID# 08650

Well # 08650-DW05

Well Diameter (D) 2 inch of 75.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness — ft
Total Well Depth (TWD) ~~75.00~~ ft btoc 70.50
Depth to Groundwater (DGW) 16.57 ft btoc
Length of Water Colum (LWC = TWD-DGW) 58.43 ft 53.93
1 Casing Volume (LWC*C) = 0.00 X .17 = 9.93 gals 9.16
3 Casing Volumes = 3 X 0.00 = 29.79 gals 27.48
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 27.5 gals

*If free product is present over 1/8 inch, sampling will not be required.

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

	Initial	1st Vol.	2nd Vol.	3rd Vol. 27.5	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	10.0	20.0	~~30.0~~						
Time (military)	950	955	1003	1011						
pH (s.u)	6.63	6.34	6.21	6.20						
Specific Conductivity (µS)	154.2	149.1	142.9	144.5						
Water Temperature (°C)	17.9	18.1	18.1	18.1						
Turbidity (NTU)	63.7	53.1	21.9	7.2						
Dissolved Oxygen (mg/l)	1.5	1.5	1.7	1.6						

Remarks: Well sampled at 1011 on 4-29-15.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Page _____ of _____

Date 4-29-15
Field Personnel DRM
General weather Conditions cloudy
Ambient Air Temperature (°C)

Facility Name: George Souther's Grocery Site ID# 08650

Well # 08650-DW06

Well Diameter (D) 2 inch of 75.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652

*Free Product Thickness — ft
Total Well Depth (TWD) 75.00 ft btoc
Depth to Groundwater (DGW) 1.27 ft btoc
Length of Water Colum (LWC = TWD-DGW) 73.73 ft
1 Casing Volume (LWC*C) = 0.00 X .17 = 12.53 gals
3 Casing Volumes = 3 X 0.00 = 37.59 gals
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 15.0 gals

*If free product is present over 1/8 inch, sampling will not be required.

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	13.0	26.0	38.0						
Time (military)	1108	1112								
pH (s.u)	6.72	6.78								
Specific Conductivity (µS)	135.0	94.5								
Water Temperature (°C)	16.0	15.7								
Turbidity (NTU)	82.1	189.4								
Dissolved Oxygen (mg/l)	1.9	1.9								

Remarks: Well sampled at 1122 on 4-29-15.

replace well cap
well purged dry after 15.0 gallons

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Page _____ of _____

Date 4/29/15
Field Personnel RAD, DRM
General weather Conditions Partly Cloudy
Ambient Air Temperature (°C) 13°

Facility Name: George Souther's Grocery Site ID# 08650

Well # 08650-RW01

Well Diameter (D) 4 inch of 30.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness Sheen ft
Total Well Depth (TWD) 30.00 ft btoc
Depth to Groundwater (DGW) 12.53 ft btoc
Length of Water Colum (LWC = TWD-DGW) 17.47 ft
1 Casing Volume (LWC*C) = 0.00 X .65 = [redacted] gals 11.36
3 Casing Volumes = 3 X 0.00 = [redacted] gals 34.08
(Standard Purge Volume)

Total Volume of Water Purged Before Sampling 34.5 gals

*If free product is present over 1/8 inch, sampling will not be required.

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	[redacted] 11.5	23.0 [redacted]	34.5 [redacted]						
Time (military)	0932	0937	0942	0950						
pH (s.u)	6.10	6.01	6.09	6.10						
Specific Conductivity (µS)	140.5	166.5	211	321						
Water Temperature (°C)	19.0	18.9	19.1	19.0						
Turbidity (NTU)	6.87	87.43	78.12	8.10						
Dissolved Oxygen (mg/l)	1.43	1.5	1.2	1.1						

Very strong petroleum odor & sheen

Remarks: Well sampled at 0950 on 4/29/15.

BLE INC
BUNNELL-LAMMONS ENGINEERING, INC

Field Data Information Sheet for Ground Water Sampling
Division of Underground Storage Tank Management

Page _____ of _____

Date 4/29/15
Field Personnel RAD, DRM
General weather Conditions Overcast
Ambient Air Temperature (°C) 13°

Facility Name: George Souther's Grocery Site ID# 08650

Quality Assurance

pH Sensor:	Oakton 35630-62	**Conductivity Sensor:**	35630-32
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	**Turbidity:**	1.0-10.0 NTU

Chain of Custody

Relinquished by	Date/Time	Received by	Date/Time

Well # 08650-RW02

Well Diameter (D) 4 inch of 30.00 feet(ft) bgs
conversion factor (C): 3.143*(D/2)^2
for a 2 inch well C = 0.163
for a 4 inch well C = 0.652
*Free Product Thickness sheen ft
Total Well Depth (TWD) 30.00 ft btoc
Depth to Groundwater (DGW) 15.80 ft btoc
Length of Water Colum (LWC = TWD-DGW) 14.20 ft
1 Casing Volume (LWC*C) = 0.00 X .65 = 2.41 gals
3 Casing Volumes = 3 X 0.00 = 7.23 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.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	6th Vol.	7th Vol.	8th Vol.	Post
Volume Purged (gallons)	---	2.5	5.0	7.5						
Time (military)	1120									
pH (s.u)	6.23									
Specific Conductivity (µS)	359									
Water Temperature (°C)	19.0									
Turbidity (NTU)	8.21									
Dissolved Oxygen (mg/l)	2.43									

Couldn't purge due to limited access.

Remarks: Well sampled at 1130 on 4/29/15. ☆ very strong petroleum odor & sheen.

APPENDIX C

LABORATORY DATA SHEETS

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

Bunnell-Lammons Engineering, Inc.
6004 Ponders Court
Greenville, SC 29615
Attention: Trevor Benton

Project Name: **George Souther's Grocery**

Project Number: **J14-7051-06**

Lot Number: **QD30034**

Date Completed: **05/12/2015**

Lucas Odom
Project Manager

This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

• • • • • • • • •

Case Narrative
Bunnell-Lammons Engineering, Inc.
Lot Number: QD30034

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

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

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

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

EDB by Microextraction

Due to large detections of the target compound, samples -001, -002, -003, -004, -005, -008, -009, -010, -011 and -030 were all diluted 50X or greater. These large detections caused the associated surrogate to recover outside of method criteria. No corrective action was taken as it is known that dilutions of 5X and greater may impact surrogate recoveries.

Sample -025 has been qualified with a "P" as the relative percent difference between the two GC columns exceeded method criteria. Per SCDHEC, the lesser of the two values has been reported.

Sample Summary
Bunnell-Lammons Engineering, Inc.
Lot Number: QD30034

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	08650-MW01	Aqueous	04/29/2015 1005	04/30/2015
002	08650-MW02R	Aqueous	04/29/2015 0830	04/30/2015
003	08650-MW02RDUP	Aqueous	04/29/2015 0831	04/30/2015
004	08650-MW03	Aqueous	04/29/2015 0900	04/30/2015
005	08650-MW03R	Aqueous	04/29/2015 0920	04/30/2015
006	08650-MW04	Aqueous	04/28/2015 1310	04/30/2015
007	08650-MW06R	Aqueous	04/28/2015 1535	04/30/2015
008	08650-MW07	Aqueous	04/28/2015 1550	04/30/2015
009	08650-MW07DUP	Aqueous	04/28/2015 1551	04/30/2015
010	08650-MW09	Aqueous	04/29/2015 0800	04/30/2015
011	08650-MW09DUP	Aqueous	04/29/2015 0800	04/30/2015
012	08650-MW10R	Aqueous	04/28/2015 1235	04/30/2015
013	08650-MW11	Aqueous	04/28/2015 1638	04/30/2015
014	08650-MW12	Aqueous	04/28/2015 1410	04/30/2015
015	08650-MW13R	Aqueous	04/28/2015 1538	04/30/2015
016	08650-MW14R	Aqueous	04/28/2015 1135	04/30/2015
017	08650-MW15R	Aqueous	04/28/2015 1503	04/30/2015
018	08650-MW16	Aqueous	04/28/2015 1030	04/30/2015
019	08650-MW18R	Aqueous	04/28/2015 1124	04/30/2015
020	08650-MW19	Aqueous	04/28/2015 1154	04/30/2015
021	08650-MW20	Aqueous	04/28/2015 1226	04/30/2015
022	08650-MW21	Aqueous	04/28/2015 0850	04/30/2015
023	08650-MW22	Aqueous	04/28/2015 0951	04/30/2015
024	08650-MW23	Aqueous	04/28/2015 0950	04/30/2015
025	08650-MW24	Aqueous	04/28/2015 1325	04/30/2015
026	08650-MW25	Aqueous	04/28/2015 1438	04/30/2015
027	08650-MW26	Aqueous	04/28/2015 1150	04/30/2015
028	08650-MW27	Aqueous	04/28/2015 1510	04/30/2015
029	08650-MW28	Aqueous	04/28/2015 1455	04/30/2015
030	08650-MW29	Aqueous	04/28/2015 1430	04/30/2015
031	08650-MW30	Aqueous	04/28/2015 1041	04/30/2015
032	08650-MW31	Aqueous	04/28/2015 1054	04/30/2015
033	08650-MW33	Aqueous	04/28/2015 1308	04/30/2015
034	08650-MW34	Aqueous	04/28/2015 1321	04/30/2015
035	08650-MW35	Aqueous	04/28/2015 1005	04/30/2015
036	08650-MW36	Aqueous	04/28/2015 1050	04/30/2015
037	08650-MW37	Aqueous	04/28/2015 0915	04/30/2015
038	08650-MW38	Aqueous	04/28/2015 0820	04/30/2015
039	08650-MW39	Aqueous	04/28/2015 0835	04/30/2015
040	08650-MW40	Aqueous	04/28/2015 1253	04/30/2015
041	08650-MW41	Aqueous	04/27/2015 1610	04/30/2015
042	08650-MW42	Aqueous	04/27/2015 1559	04/30/2015
043	08650-MW43	Aqueous	04/27/2015 1625	04/30/2015
044	08650-PMW01	Aqueous	04/29/2015 0846	04/30/2015
045	08650-DW01	Aqueous	04/29/2015 0921	04/30/2015

Sample Summary (Continued)

Lot Number: QD30034

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
046	08650-DW02	Aqueous	04/29/2015 1052	04/30/2015
047	08650-DW03	Aqueous	04/28/2015 1614	04/30/2015
048	08650-DW04	Aqueous	04/28/2015 1414	04/30/2015
049	08650-DW05	Aqueous	04/29/2015 1011	04/30/2015
050	08650-DW06	Aqueous	04/29/2015 1122	04/30/2015
051	08650-RW01	Aqueous	04/29/2015 0950	04/30/2015
052	08650-RW02	Aqueous	04/29/2015 1130	04/30/2015
053	FIELD BLANK 01	Aqueous	04/27/2015 1530	04/30/2015
054	FIELD BLANK 02	Aqueous	04/28/2015 0800	04/30/2015
055	FIELD BLANK 03	Aqueous	04/29/2015 0730	04/30/2015
056	TRIP BLANK 01	Aqueous	04/27/2015	04/30/2015
057	TRIP BLANK 02	Aqueous	04/27/2015	04/30/2015

(57 samples)

Executive Summary
Bunnell-Lammons Engineering, Inc.
Lot Number: QD30034

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	08650-MW01	Aqueous	tert-Amyl alcohol (TAA)	8260B	51000		ug/L	10
001	08650-MW01	Aqueous	Benzene	8260B	33000		ug/L	10
001	08650-MW01	Aqueous	Diisopropyl ether (IPE)	8260B	42000		ug/L	10
001	08650-MW01	Aqueous	Ethylbenzene	8260B	5100		ug/L	10
001	08650-MW01	Aqueous	Methyl tertiary butyl ether	8260B	8800		ug/L	10
001	08650-MW01	Aqueous	tert-butyl alcohol (TBA)	8260B	8800	J	ug/L	10
001	08650-MW01	Aqueous	Toluene	8260B	76000		ug/L	10
001	08650-MW01	Aqueous	Xylenes (total)	8260B	28000		ug/L	10
001	08650-MW01	Aqueous	1,2-Dibromoethane (EDB)	8011	180		ug/L	10
002	08650-MW02R	Aqueous	tert-Amyl alcohol (TAA)	8260B	53000		ug/L	11
002	08650-MW02R	Aqueous	Benzene	8260B	40000		ug/L	11
002	08650-MW02R	Aqueous	1,2-Dichloroethane	8260B	2800		ug/L	11
002	08650-MW02R	Aqueous	Diisopropyl ether (IPE)	8260B	37000		ug/L	11
002	08650-MW02R	Aqueous	Ethylbenzene	8260B	2900		ug/L	11
002	08650-MW02R	Aqueous	Methyl tertiary butyl ether	8260B	1400	J	ug/L	11
002	08650-MW02R	Aqueous	tert-butyl alcohol (TBA)	8260B	9600	J	ug/L	11
002	08650-MW02R	Aqueous	Toluene	8260B	48000		ug/L	11
002	08650-MW02R	Aqueous	Xylenes (total)	8260B	17000		ug/L	11
002	08650-MW02R	Aqueous	1,2-Dibromoethane (EDB)	8011	460		ug/L	11
003	08650-MW02RDUP	Aqueous	tert-Amyl alcohol (TAA)	8260B	52000		ug/L	12
003	08650-MW02RDUP	Aqueous	Benzene	8260B	40000		ug/L	12
003	08650-MW02RDUP	Aqueous	1,2-Dichloroethane	8260B	2700		ug/L	12
003	08650-MW02RDUP	Aqueous	Diisopropyl ether (IPE)	8260B	35000		ug/L	12
003	08650-MW02RDUP	Aqueous	Ethylbenzene	8260B	3000		ug/L	12
003	08650-MW02RDUP	Aqueous	Methyl tertiary butyl ether	8260B	1400	J	ug/L	12
003	08650-MW02RDUP	Aqueous	tert-butyl alcohol (TBA)	8260B	9600	J	ug/L	12
003	08650-MW02RDUP	Aqueous	Toluene	8260B	49000		ug/L	12
003	08650-MW02RDUP	Aqueous	Xylenes (total)	8260B	17000		ug/L	12
003	08650-MW02RDUP	Aqueous	1,2-Dibromoethane (EDB)	8011	560		ug/L	12
004	08650-MW03	Aqueous	tert-Amyl alcohol (TAA)	8260B	19000		ug/L	13
004	08650-MW03	Aqueous	Benzene	8260B	16000		ug/L	13
004	08650-MW03	Aqueous	1,2-Dichloroethane	8260B	750	J	ug/L	13
004	08650-MW03	Aqueous	Diisopropyl ether (IPE)	8260B	11000		ug/L	13
004	08650-MW03	Aqueous	Ethylbenzene	8260B	2800		ug/L	13
004	08650-MW03	Aqueous	Methyl tertiary butyl ether	8260B	86	J	ug/L	13
004	08650-MW03	Aqueous	Naphthalene	8260B	1100		ug/L	13
004	08650-MW03	Aqueous	tert-butyl alcohol (TBA)	8260B	4500		ug/L	13
004	08650-MW03	Aqueous	Toluene	8260B	35000		ug/L	13
004	08650-MW03	Aqueous	Xylenes (total)	8260B	19000		ug/L	13
004	08650-MW03	Aqueous	1,2-Dibromoethane (EDB)	8011	230		ug/L	13
005	08650-MW03R	Aqueous	tert-Amyl alcohol (TAA)	8260B	19000		ug/L	14
005	08650-MW03R	Aqueous	Benzene	8260B	8700		ug/L	14
005	08650-MW03R	Aqueous	1,2-Dichloroethane	8260B	470	J	ug/L	14
005	08650-MW03R	Aqueous	Diisopropyl ether (IPE)	8260B	12000		ug/L	14
005	08650-MW03R	Aqueous	Ethylbenzene	8260B	950		ug/L	14

Executive Summary (Continued)

Lot Number: QD30034

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
005	08650-MW03R	Aqueous	Methyl tertiary butyl ether	8260B	88	J	ug/L	14
005	08650-MW03R	Aqueous	Naphthalene	8260B	280	J	ug/L	14
005	08650-MW03R	Aqueous	tert-butyl alcohol (TBA)	8260B	5400		ug/L	14
005	08650-MW03R	Aqueous	Toluene	8260B	15000		ug/L	14
005	08650-MW03R	Aqueous	Xylenes (total)	8260B	5800		ug/L	14
005	08650-MW03R	Aqueous	1,2-Dibromoethane (EDB)	8011	43		ug/L	14
006	08650-MW04	Aqueous	Benzene	8260B	0.31	J	ug/L	15
006	08650-MW04	Aqueous	1,2-Dibromoethane (EDB)	8011	0.090		ug/L	15
007	08650-MW06R	Aqueous	Benzene	8260B	5.4		ug/L	16
007	08650-MW06R	Aqueous	Ethylbenzene	8260B	19		ug/L	16
007	08650-MW06R	Aqueous	Naphthalene	8260B	7.5		ug/L	16
007	08650-MW06R	Aqueous	Toluene	8260B	31		ug/L	16
007	08650-MW06R	Aqueous	Xylenes (total)	8260B	88		ug/L	16
007	08650-MW06R	Aqueous	1,2-Dibromoethane (EDB)	8011	0.12		ug/L	16
008	08650-MW07	Aqueous	tert-Amyl alcohol (TAA)	8260B	5600	J	ug/L	17
008	08650-MW07	Aqueous	Benzene	8260B	21000		ug/L	17
008	08650-MW07	Aqueous	Diisopropyl ether (IPE)	8260B	8400		ug/L	17
008	08650-MW07	Aqueous	Ethylbenzene	8260B	4300		ug/L	17
008	08650-MW07	Aqueous	Toluene	8260B	56000		ug/L	17
008	08650-MW07	Aqueous	Xylenes (total)	8260B	22000		ug/L	17
008	08650-MW07	Aqueous	1,2-Dibromoethane (EDB)	8011	130		ug/L	17
009	08650-MW07DUP	Aqueous	tert-Amyl alcohol (TAA)	8260B	7100	J	ug/L	18
009	08650-MW07DUP	Aqueous	Benzene	8260B	22000		ug/L	18
009	08650-MW07DUP	Aqueous	Diisopropyl ether (IPE)	8260B	8900		ug/L	18
009	08650-MW07DUP	Aqueous	Ethylbenzene	8260B	4200		ug/L	18
009	08650-MW07DUP	Aqueous	Toluene	8260B	55000		ug/L	18
009	08650-MW07DUP	Aqueous	Xylenes (total)	8260B	22000		ug/L	18
009	08650-MW07DUP	Aqueous	1,2-Dibromoethane (EDB)	8011	130		ug/L	18
010	08650-MW09	Aqueous	tert-Amyl alcohol (TAA)	8260B	20000		ug/L	19
010	08650-MW09	Aqueous	Benzene	8260B	20000		ug/L	19
010	08650-MW09	Aqueous	1,2-Dichloroethane	8260B	1400		ug/L	19
010	08650-MW09	Aqueous	Diisopropyl ether (IPE)	8260B	6700		ug/L	19
010	08650-MW09	Aqueous	Ethylbenzene	8260B	1100		ug/L	19
010	08650-MW09	Aqueous	Methyl tertiary butyl ether	8260B	600	J	ug/L	19
010	08650-MW09	Aqueous	Naphthalene	8260B	560	J	ug/L	19
010	08650-MW09	Aqueous	tert-butyl alcohol (TBA)	8260B	1700	J	ug/L	19
010	08650-MW09	Aqueous	Toluene	8260B	18000		ug/L	19
010	08650-MW09	Aqueous	Xylenes (total)	8260B	8300		ug/L	19
010	08650-MW09	Aqueous	1,2-Dibromoethane (EDB)	8011	360		ug/L	19
011	08650-MW09DUP	Aqueous	tert-Amyl alcohol (TAA)	8260B	21000		ug/L	20
011	08650-MW09DUP	Aqueous	Benzene	8260B	20000		ug/L	20
011	08650-MW09DUP	Aqueous	1,2-Dichloroethane	8260B	1300		ug/L	20
011	08650-MW09DUP	Aqueous	Diisopropyl ether (IPE)	8260B	6600		ug/L	20
011	08650-MW09DUP	Aqueous	Ethylbenzene	8260B	1000		ug/L	20
011	08650-MW09DUP	Aqueous	Methyl tertiary butyl ether	8260B	620	J	ug/L	20
011	08650-MW09DUP	Aqueous	Naphthalene	8260B	610	J	ug/L	20
011	08650-MW09DUP	Aqueous	tert-butyl alcohol (TBA)	8260B	1700	J	ug/L	20
011	08650-MW09DUP	Aqueous	Toluene	8260B	18000		ug/L	20

Executive Summary (Continued)

Lot Number: QD30034

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
011	08650-MW09DUP	Aqueous	Xylenes (total)	8260B	8100		ug/L	20
011	08650-MW09DUP	Aqueous	1,2-Dibromoethane (EDB)	8011	310		ug/L	20
012	08650-MW10R	Aqueous	1,2-Dibromoethane (EDB)	8011	0.65		ug/L	21
013	08650-MW11	Aqueous	Benzene	8260B	21	J	ug/L	22
013	08650-MW11	Aqueous	Ethylbenzene	8260B	38		ug/L	22
013	08650-MW11	Aqueous	Naphthalene	8260B	13	J	ug/L	22
013	08650-MW11	Aqueous	Xylenes (total)	8260B	110		ug/L	22
013	08650-MW11	Aqueous	1,2-Dibromoethane (EDB)	8011	0.057		ug/L	22
014	08650-MW12	Aqueous	Toluene	8260B	2.4	J	ug/L	23
014	08650-MW12	Aqueous	Xylenes (total)	8260B	7.5		ug/L	23
015	08650-MW13R	Aqueous	Diisopropyl ether (IPE)	8260B	10		ug/L	24
019	08650-MW18R	Aqueous	Naphthalene	8260B	6.8		ug/L	28
019	08650-MW18R	Aqueous	Xylenes (total)	8260B	4.0	J	ug/L	28
020	08650-MW19	Aqueous	tert-Amyl alcohol (TAA)	8260B	14	J	ug/L	29
020	08650-MW19	Aqueous	Benzene	8260B	4.0	J	ug/L	29
020	08650-MW19	Aqueous	tert-butyl alcohol (TBA)	8260B	130		ug/L	29
024	08650-MW23	Aqueous	tert-Amyl methyl ether	8260B	0.83	J	ug/L	33
025	08650-MW24	Aqueous	tert-Amyl alcohol (TAA)	8260B	2100		ug/L	34
025	08650-MW24	Aqueous	Benzene	8260B	2000		ug/L	34
025	08650-MW24	Aqueous	1,2-Dichloroethane	8260B	75	J	ug/L	34
025	08650-MW24	Aqueous	Diisopropyl ether (IPE)	8260B	610		ug/L	34
025	08650-MW24	Aqueous	Ethylbenzene	8260B	690		ug/L	34
025	08650-MW24	Aqueous	Naphthalene	8260B	120		ug/L	34
025	08650-MW24	Aqueous	tert-butyl alcohol (TBA)	8260B	160	J	ug/L	34
025	08650-MW24	Aqueous	Toluene	8260B	73	J	ug/L	34
025	08650-MW24	Aqueous	Xylenes (total)	8260B	3200		ug/L	34
025	08650-MW24	Aqueous	1,2-Dibromoethane (EDB)	8011	0.017	JP	ug/L	34
028	08650-MW27	Aqueous	tert-Amyl alcohol (TAA)	8260B	2.2	J	ug/L	37
028	08650-MW27	Aqueous	Benzene	8260B	21		ug/L	37
028	08650-MW27	Aqueous	1,2-Dichloroethane	8260B	0.76	J	ug/L	37
028	08650-MW27	Aqueous	Diisopropyl ether (IPE)	8260B	0.55	J	ug/L	37
028	08650-MW27	Aqueous	Ethylbenzene	8260B	60		ug/L	37
028	08650-MW27	Aqueous	Naphthalene	8260B	20		ug/L	37
028	08650-MW27	Aqueous	Toluene	8260B	100		ug/L	37
028	08650-MW27	Aqueous	Xylenes (total)	8260B	270		ug/L	37
028	08650-MW27	Aqueous	1,2-Dibromoethane (EDB)	8011	0.58		ug/L	37
029	08650-MW28	Aqueous	tert-Amyl alcohol (TAA)	8260B	210	J	ug/L	38
029	08650-MW28	Aqueous	Benzene	8260B	28	J	ug/L	38
029	08650-MW28	Aqueous	Ethylbenzene	8260B	1100		ug/L	38
029	08650-MW28	Aqueous	Naphthalene	8260B	350		ug/L	38
029	08650-MW28	Aqueous	Toluene	8260B	530		ug/L	38
029	08650-MW28	Aqueous	Xylenes (total)	8260B	5700		ug/L	38
029	08650-MW28	Aqueous	1,2-Dibromoethane (EDB)	8011	0.23		ug/L	38
030	08650-MW29	Aqueous	tert-Amyl alcohol (TAA)	8260B	12000		ug/L	39
030	08650-MW29	Aqueous	Benzene	8260B	8900		ug/L	39
030	08650-MW29	Aqueous	1,2-Dichloroethane	8260B	620		ug/L	39
030	08650-MW29	Aqueous	Diisopropyl ether (IPE)	8260B	2600		ug/L	39
030	08650-MW29	Aqueous	Ethylbenzene	8260B	930		ug/L	39

Executive Summary (Continued)

Lot Number: QD30034

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
030	08650-MW29	Aqueous	Methyl tertiary butyl ether	8260B	47	J	ug/L	39
030	08650-MW29	Aqueous	Naphthalene	8260B	280	J	ug/L	39
030	08650-MW29	Aqueous	tert-butyl alcohol (TBA)	8260B	1200	J	ug/L	39
030	08650-MW29	Aqueous	Toluene	8260B	11000		ug/L	39
030	08650-MW29	Aqueous	Xylenes (total)	8260B	4400		ug/L	39
030	08650-MW29	Aqueous	1,2-Dibromoethane (EDB)	8011	170		ug/L	39
031	08650-MW30	Aqueous	1,2-Dichloroethane	8260B	9.8		ug/L	40
031	08650-MW30	Aqueous	Diisopropyl ether (IPE)	8260B	110		ug/L	40
036	08650-MW36	Aqueous	tert-Amyl alcohol (TAA)	8260B	140		ug/L	45
036	08650-MW36	Aqueous	Ethylbenzene	8260B	220		ug/L	45
036	08650-MW36	Aqueous	Naphthalene	8260B	88		ug/L	45
036	08650-MW36	Aqueous	Toluene	8260B	170		ug/L	45
036	08650-MW36	Aqueous	Xylenes (total)	8260B	890		ug/L	45
044	08650-PMW01	Aqueous	tert-Amyl alcohol (TAA)	8260B	2500		ug/L	53
044	08650-PMW01	Aqueous	Benzene	8260B	6600		ug/L	53
044	08650-PMW01	Aqueous	Diisopropyl ether (IPE)	8260B	3800		ug/L	53
044	08650-PMW01	Aqueous	tert-butyl alcohol (TBA)	8260B	520	J	ug/L	53
044	08650-PMW01	Aqueous	Toluene	8260B	460	J	ug/L	53
044	08650-PMW01	Aqueous	Xylenes (total)	8260B	1300		ug/L	53
045	08650-DW01	Aqueous	tert-Amyl alcohol (TAA)	8260B	590		ug/L	54
045	08650-DW01	Aqueous	Benzene	8260B	290		ug/L	54
045	08650-DW01	Aqueous	Diisopropyl ether (IPE)	8260B	170		ug/L	54
045	08650-DW01	Aqueous	Naphthalene	8260B	13	J	ug/L	54
045	08650-DW01	Aqueous	tert-butyl alcohol (TBA)	8260B	64	J	ug/L	54
046	08650-DW02	Aqueous	Benzene	8260B	4.7	J	ug/L	55
046	08650-DW02	Aqueous	Ethanol	8260B	620		ug/L	55
046	08650-DW02	Aqueous	Toluene	8260B	440		ug/L	55
047	08650-DW03	Aqueous	tert-Amyl alcohol (TAA)	8260B	48	J	ug/L	56
047	08650-DW03	Aqueous	Benzene	8260B	12	J	ug/L	56
047	08650-DW03	Aqueous	Ethylbenzene	8260B	94		ug/L	56
047	08650-DW03	Aqueous	Naphthalene	8260B	24	J	ug/L	56
047	08650-DW03	Aqueous	Toluene	8260B	260		ug/L	56
047	08650-DW03	Aqueous	Xylenes (total)	8260B	510		ug/L	56
048	08650-DW04	Aqueous	Benzene	8260B	2.6	J	ug/L	57
048	08650-DW04	Aqueous	Diisopropyl ether (IPE)	8260B	1.7	J	ug/L	57
048	08650-DW04	Aqueous	Ethylbenzene	8260B	12		ug/L	57
048	08650-DW04	Aqueous	Naphthalene	8260B	5.1		ug/L	57
048	08650-DW04	Aqueous	Toluene	8260B	15		ug/L	57
048	08650-DW04	Aqueous	Xylenes (total)	8260B	48		ug/L	57
049	08650-DW05	Aqueous	tert-Amyl alcohol (TAA)	8260B	690		ug/L	58
049	08650-DW05	Aqueous	Benzene	8260B	640		ug/L	58
049	08650-DW05	Aqueous	Diisopropyl ether (IPE)	8260B	100		ug/L	58
049	08650-DW05	Aqueous	Naphthalene	8260B	70		ug/L	58
050	08650-DW06	Aqueous	Benzene	8260B	2.1	J	ug/L	59
050	08650-DW06	Aqueous	Toluene	8260B	5.9		ug/L	59
051	08650-RW01	Aqueous	tert-Amyl alcohol (TAA)	8260B	3600		ug/L	60
051	08650-RW01	Aqueous	Benzene	8260B	3000		ug/L	60
051	08650-RW01	Aqueous	Diisopropyl ether (IPE)	8260B	4200		ug/L	60

Executive Summary (Continued)

Lot Number: QD30034

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
051	08650-RW01	Aqueous	Ethylbenzene	8260B	850		ug/L	60
051	08650-RW01	Aqueous	Methyl tertiary butyl ether	8260B	230	J	ug/L	60
051	08650-RW01	Aqueous	Naphthalene	8260B	190	J	ug/L	60
051	08650-RW01	Aqueous	tert-butyl alcohol (TBA)	8260B	1500		ug/L	60
051	08650-RW01	Aqueous	Toluene	8260B	2800		ug/L	60
051	08650-RW01	Aqueous	Xylenes (total)	8260B	4400		ug/L	60
051	08650-RW01	Aqueous	1,2-Dibromoethane (EDB)	8011	1.4		ug/L	60
052	08650-RW02	Aqueous	tert-Amyl alcohol (TAA)	8260B	53000		ug/L	61
052	08650-RW02	Aqueous	Benzene	8260B	36000		ug/L	61
052	08650-RW02	Aqueous	Diisopropyl ether (IPE)	8260B	24000		ug/L	61
052	08650-RW02	Aqueous	Ethylbenzene	8260B	1900	J	ug/L	61
052	08650-RW02	Aqueous	Methyl tertiary butyl ether	8260B	11000		ug/L	61
052	08650-RW02	Aqueous	tert-butyl alcohol (TBA)	8260B	9500	J	ug/L	61
052	08650-RW02	Aqueous	Toluene	8260B	34000		ug/L	61
052	08650-RW02	Aqueous	Xylenes (total)	8260B	12000		ug/L	61
052	08650-RW02	Aqueous	1,2-Dibromoethane (EDB)	8011	0.69		ug/L	61

(205 detections)

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-001**
Description: **08650-MW01** Matrix: **Aqueous**
Date Sampled: **04/29/2015 1005**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1000	05/07/2015 0104	PMM2		74217

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**51000**		**20000**	**1500**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10000	250	ug/L	1
Benzene	**71-43-2**	**8260B**	**33000**		**5000**	**210**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5000	660	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5000	300	ug/L	1
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**42000**		**5000**	**400**	**ug/L**	**1**
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20000	1500	ug/L	1
Ethanol	64-17-5	8260B	ND		100000	19000	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**5100**		**5000**	**1700**	**ug/L**	**1**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1000	200	ug/L	1
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**8800**		**5000**	**400**	**ug/L**	**1**
Naphthalene	91-20-3	8260B	ND		5000	1700	ug/L	1
tert-butyl alcohol (TBA)	**75-65-0**	**8260B**	**8800**	**J**	**20000**	**2300**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**76000**		**5000**	**1700**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**28000**		**5000**	**1700**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		102	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	200	05/07/2015 0918	MEM	05/03/2015 1355	73891

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**180**		**3.9**	**0.99**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane	N	0.00	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-002**
Description: **08650-MW02R** Matrix: **Aqueous**
Date Sampled: **04/29/2015 0830**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	500	05/07/2015 0126	PMM2		74217

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**53000**		**10000**	**730**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		5000	130	ug/L	1
Benzene	**71-43-2**	**8260B**	**40000**		**2500**	**110**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		2500	330	ug/L	1
1,2-Dichloroethane	**107-06-2**	**8260B**	**2800**		**2500**	**150**	**ug/L**	**1**
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**37000**		**2500**	**200**	**ug/L**	**1**
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		10000	750	ug/L	1
Ethanol	64-17-5	8260B	ND		50000	9600	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**2900**		**2500**	**850**	**ug/L**	**1**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		500	100	ug/L	1
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**1400**	**J**	**2500**	**200**	**ug/L**	**1**
Naphthalene	91-20-3	8260B	ND		2500	850	ug/L	1
tert-butyl alcohol (TBA)	**75-65-0**	**8260B**	**9600**	**J**	**10000**	**1100**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**48000**		**2500**	**850**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**17000**		**2500**	**850**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		102	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1000	05/07/2015 0929	MEM	05/03/2015 1355	73892

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**460**		**20**	**4.9**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane	N	0.00	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-003**
Description: **08650-MW02RDUP** Matrix: **Aqueous**
Date Sampled: **04/29/2015 0831**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	500	05/07/2015 0149	PMM2		74217

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**52000**		**10000**	**730**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		5000	130	ug/L	1
Benzene	**71-43-2**	**8260B**	**40000**		**2500**	**110**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		2500	330	ug/L	1
1,2-Dichloroethane	**107-06-2**	**8260B**	**2700**		**2500**	**150**	**ug/L**	**1**
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**35000**		**2500**	**200**	**ug/L**	**1**
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		10000	750	ug/L	1
Ethanol	64-17-5	8260B	ND		50000	9600	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**3000**		**2500**	**850**	**ug/L**	**1**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		500	100	ug/L	1
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**1400**	**J**	**2500**	**200**	**ug/L**	**1**
Naphthalene	91-20-3	8260B	ND		2500	850	ug/L	1
tert-butyl alcohol (TBA)	**75-65-0**	**8260B**	**9600**	**J**	**10000**	**1100**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**49000**		**2500**	**850**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**17000**		**2500**	**850**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		101	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1000	05/07/2015 0939	MEM	05/03/2015 1355	73892

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**560**		**20**	**4.9**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane	N	0.00	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-004**
Description: **08650-MW03** Matrix: **Aqueous**
Date Sampled: **04/29/2015 0900**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	200	05/07/2015 0211	PMM2		74217

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**19000**		**4000**	**290**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		2000	50	ug/L	1
Benzene	**71-43-2**	**8260B**	**16000**		**1000**	**42**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		1000	130	ug/L	1
1,2-Dichloroethane	**107-06-2**	**8260B**	**750**	**J**	**1000**	**60**	**ug/L**	**1**
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**11000**		**1000**	**80**	**ug/L**	**1**
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		4000	300	ug/L	1
Ethanol	64-17-5	8260B	ND		20000	3900	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**2800**		**1000**	**340**	**ug/L**	**1**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		200	40	ug/L	1
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**86**	**J**	**1000**	**80**	**ug/L**	**1**
Naphthalene	**91-20-3**	**8260B**	**1100**		**1000**	**340**	**ug/L**	**1**
tert-butyl alcohol (TBA)	**75-65-0**	**8260B**	**4500**		**4000**	**460**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**35000**		**1000**	**340**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**19000**		**1000**	**340**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		100	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	500	05/07/2015 0949	MEM	05/03/2015 1355	73892

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**230**		**9.7**	**2.4**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane	N	0.00	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-005**
Description: **08650-MW03R** Matrix: **Aqueous**
Date Sampled: **04/29/2015 0920**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	100	05/07/2015 0233	PMM2		74217

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**19000**		**2000**	**150**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		1000	25	ug/L	1
Benzene	**71-43-2**	**8260B**	**8700**		**500**	**21**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		500	66	ug/L	1
1,2-Dichloroethane	**107-06-2**	**8260B**	**470**	**J**	**500**	**30**	**ug/L**	**1**
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**12000**		**500**	**40**	**ug/L**	**1**
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		2000	150	ug/L	1
Ethanol	64-17-5	8260B	ND		10000	1900	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**950**		**500**	**170**	**ug/L**	**1**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	20	ug/L	1
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**88**	**J**	**500**	**40**	**ug/L**	**1**
Naphthalene	**91-20-3**	**8260B**	**280**	**J**	**500**	**170**	**ug/L**	**1**
tert-butyl alcohol (TBA)	**75-65-0**	**8260B**	**5400**		**2000**	**230**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**15000**		**500**	**170**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**5800**		**500**	**170**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		100	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	50	05/07/2015 1000	MEM	05/03/2015 1355	73892

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**43**		**0.99**	**0.25**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane	N	0.00	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-006**
Description: **08650-MW04** Matrix: **Aqueous**
Date Sampled: **04/28/2015 1310**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/06/2015 2228	PMM2		74217

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	**71-43-2**	**8260B**	**0.31**	**J**	**5.0**	**0.21**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		91	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/07/2015 1010	MEM	05/03/2015 1355	73892

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**0.090**		**0.020**	**0.0050**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		109	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-007**
Description: **08650-MW06R** Matrix: **Aqueous**
Date Sampled: **04/28/2015 1535**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	1	05/08/2015 1037	PAP		74368

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	2
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	2
Benzene	**71-43-2**	**8260B**	**5.4**		**5.0**	**0.21**	**ug/L**	**2**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	2
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	2
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	2
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	2
Ethanol	64-17-5	8260B	ND		100	19	ug/L	2
Ethylbenzene	**100-41-4**	**8260B**	**19**		**5.0**	**1.7**	**ug/L**	**2**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	2
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	2
Naphthalene	**91-20-3**	**8260B**	**7.5**		**5.0**	**1.7**	**ug/L**	**2**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	2
Toluene	**108-88-3**	**8260B**	**31**		**5.0**	**1.7**	**ug/L**	**2**
Xylenes (total)	**1330-20-7**	**8260B**	**88**		**5.0**	**1.7**	**ug/L**	**2**

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		99	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/07/2015 1020	MEM	05/03/2015 1355	73892

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**0.12**		**0.020**	**0.0049**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		109	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-008**
Description: **08650-MW07** Matrix: **Aqueous**
Date Sampled: **04/28/2015 1550**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	500	05/07/2015 0318	PMM2		74217

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**5600**	**J**	**10000**	**730**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		5000	130	ug/L	1
Benzene	**71-43-2**	**8260B**	**21000**		**2500**	**110**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		2500	330	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		2500	150	ug/L	1
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**8400**		**2500**	**200**	**ug/L**	**1**
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		10000	750	ug/L	1
Ethanol	64-17-5	8260B	ND		50000	9600	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**4300**		**2500**	**850**	**ug/L**	**1**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		500	100	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		2500	200	ug/L	1
Naphthalene	91-20-3	8260B	ND		2500	850	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		10000	1100	ug/L	1
Toluene	**108-88-3**	**8260B**	**56000**		**2500**	**850**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**22000**		**2500**	**850**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		100	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	200	05/07/2015 1031	MEM	05/03/2015 1355	73892

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**130**		**3.9**	**0.98**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane	N	0.00	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-009**
Description: **08650-MW07DUP** Matrix: **Aqueous**
Date Sampled: **04/28/2015 1551**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	500	05/07/2015 0340	PMM2		74217

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**7100**	**J**	**10000**	**730**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		5000	130	ug/L	1
Benzene	**71-43-2**	**8260B**	**22000**		**2500**	**110**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		2500	330	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		2500	150	ug/L	1
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**8900**		**2500**	**200**	**ug/L**	**1**
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		10000	750	ug/L	1
Ethanol	64-17-5	8260B	ND		50000	9600	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**4200**		**2500**	**850**	**ug/L**	**1**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		500	100	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		2500	200	ug/L	1
Naphthalene	91-20-3	8260B	ND		2500	850	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		10000	1100	ug/L	1
Toluene	**108-88-3**	**8260B**	**55000**		**2500**	**850**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**22000**		**2500**	**850**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		100	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	200	05/07/2015 1041	MEM	05/03/2015 1355	73892

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**130**		**3.9**	**0.97**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane	N	0.00	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-010**
Description: **08650-MW09** Matrix: **Aqueous**
Date Sampled: **04/29/2015 0800**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	200	05/07/2015 0402	PMM2		74217

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**20000**		**4000**	**290**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		2000	50	ug/L	1
Benzene	**71-43-2**	**8260B**	**20000**		**1000**	**42**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		1000	130	ug/L	1
1,2-Dichloroethane	**107-06-2**	**8260B**	**1400**		**1000**	**60**	**ug/L**	**1**
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**6700**		**1000**	**80**	**ug/L**	**1**
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		4000	300	ug/L	1
Ethanol	64-17-5	8260B	ND		20000	3900	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**1100**		**1000**	**340**	**ug/L**	**1**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		200	40	ug/L	1
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**600**	**J**	**1000**	**80**	**ug/L**	**1**
Naphthalene	**91-20-3**	**8260B**	**560**	**J**	**1000**	**340**	**ug/L**	**1**
tert-butyl alcohol (TBA)	**75-65-0**	**8260B**	**1700**	**J**	**4000**	**460**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**18000**		**1000**	**340**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**8300**		**1000**	**340**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		99	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	500	05/07/2015 1051	MEM	05/03/2015 1355	73892

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**360**		**9.9**	**2.5**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane	N	0.00	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-011**
Description: **08650-MW09DUP** Matrix: **Aqueous**
Date Sampled: **04/29/2015 0800**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	200	05/07/2015 0425	PMM2		74217

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**21000**		**4000**	**290**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		2000	50	ug/L	1
Benzene	**71-43-2**	**8260B**	**20000**		**1000**	**42**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		1000	130	ug/L	1
1,2-Dichloroethane	**107-06-2**	**8260B**	**1300**		**1000**	**60**	**ug/L**	**1**
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**6600**		**1000**	**80**	**ug/L**	**1**
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		4000	300	ug/L	1
Ethanol	64-17-5	8260B	ND		20000	3900	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**1000**		**1000**	**340**	**ug/L**	**1**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		200	40	ug/L	1
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**620**	**J**	**1000**	**80**	**ug/L**	**1**
Naphthalene	**91-20-3**	**8260B**	**610**	**J**	**1000**	**340**	**ug/L**	**1**
tert-butyl alcohol (TBA)	**75-65-0**	**8260B**	**1700**	**J**	**4000**	**460**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**18000**		**1000**	**340**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**8100**		**1000**	**340**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		101	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	500	05/07/2015 1122	MEM	05/03/2015 1355	73892

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**310**		**9.7**	**2.4**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane	N	0.00	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-012**
Description: **08650-MW10R** Matrix: **Aqueous**
Date Sampled: **04/28/2015 1235**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/06/2015 2250	PMM2		74217

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		92	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/07/2015 1132	MEM	05/03/2015 1355	73892

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**0.65**		**0.021**	**0.0054**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		92	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-013**
Description: **08650-MW11** Matrix: **Aqueous**
Date Sampled: **04/28/2015 1638**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	5	05/08/2015 1613	PAP		74368

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	7.3	ug/L	2
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		50	1.3	ug/L	2
Benzene	**71-43-2**	**8260B**	**21**	**J**	**25**	**1.1**	**ug/L**	**2**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		25	3.3	ug/L	2
1,2-Dichloroethane	107-06-2	8260B	ND		25	1.5	ug/L	2
Diisopropyl ether (IPE)	108-20-3	8260B	ND		25	2.0	ug/L	2
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	7.5	ug/L	2
Ethanol	64-17-5	8260B	ND		500	96	ug/L	2
Ethylbenzene	**100-41-4**	**8260B**	**38**		**25**	**8.5**	**ug/L**	**2**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		5.0	1.0	ug/L	2
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		25	2.0	ug/L	2
Naphthalene	**91-20-3**	**8260B**	**13**	**J**	**25**	**8.5**	**ug/L**	**2**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	11	ug/L	2
Toluene	108-88-3	8260B	ND		25	8.5	ug/L	2
Xylenes (total)	**1330-20-7**	**8260B**	**110**		**25**	**8.5**	**ug/L**	**2**

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		97	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/07/2015 1143	MEM	05/03/2015 1355	73892

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**0.057**		**0.020**	**0.0049**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		113	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-014**
Description: **08650-MW12** Matrix: **Aqueous**
Date Sampled: **04/28/2015 1410**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/06/2015 2312	PMM2		74217

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	**108-88-3**	**8260B**	**2.4**	**J**	**5.0**	**1.7**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**7.5**		**5.0**	**1.7**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		89	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		93	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/06/2015 0518	MEM	05/03/2015 1355	73892

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		80	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-015**
Description: **08650-MW13R** Matrix: **Aqueous**
Date Sampled: **04/28/2015 1538**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/06/2015 2335	PMM2		74217

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**10**		**5.0**	**0.40**	**ug/L**	**1**
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		88	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		91	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/06/2015 0528	MEM	05/03/2015 1355	73892

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0051	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		91	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-016**
Description: **08650-MW14R** Matrix: **Aqueous**
Date Sampled: **04/28/2015 1135**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/06/2015 2357	PMM2		74217

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		89	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		92	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/06/2015 0538	MEM	05/03/2015 1355	73892

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		88	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-017**
Description: **08650-MW15R** Matrix: **Aqueous**
Date Sampled: **04/28/2015 1503**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/07/2015 0019	PMM2		74217

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		98	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/06/2015 0548	MEM	05/03/2015 1355	73892

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		98	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-018**
Description: **08650-MW16** Matrix: **Aqueous**
Date Sampled: **04/28/2015 1030**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/06/2015 2240	PMM2		74215

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		83	70-130
Bromofluorobenzene		80	70-130
Toluene-d8		80	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/06/2015 0559	MEM	05/03/2015 1355	73892

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		105	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-019**
Description: **08650-MW18R** Matrix: **Aqueous**
Date Sampled: **04/28/2015 1124**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/06/2015 2302	PMM2		74215

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**6.8**		**5.0**	**1.7**	**ug/L**	**1**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	**1330-20-7**	**8260B**	**4.0**	**J**	**5.0**	**1.7**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		84	70-130
Bromofluorobenzene		78	70-130
Toluene-d8		83	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/06/2015 0609	MEM	05/03/2015 1355	73892

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.021	0.0053	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		101	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-020**
Description: **08650-MW19** Matrix: **Aqueous**
Date Sampled: **04/28/2015 1154**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/06/2015 2325	PMM2		74215

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**14**	**J**	**20**	**1.5**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	**71-43-2**	**8260B**	**4.0**	**J**	**5.0**	**0.21**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	**75-65-0**	**8260B**	**130**		**20**	**2.3**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		123	70-130
Bromofluorobenzene		116	70-130
Toluene-d8		122	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/06/2015 0619	MEM	05/03/2015 1355	73892

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		95	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-021**
Description: **08650-MW20** Matrix: **Aqueous**
Date Sampled: **04/28/2015 1226**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/06/2015 2348	PMM2		74215

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	70-130
Bromofluorobenzene		87	70-130
Toluene-d8		90	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/06/2015 0629	MEM	05/03/2015 1355	73892

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		106	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-022**
Description: **08650-MW21** Matrix: **Aqueous**
Date Sampled: **04/28/2015 0850**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/07/2015 0011	PMM2		74215

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		99	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/07/2015 1424	MEM	05/06/2015 1153	74145

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0048	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		117	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-023**
Description: **08650-MW22** Matrix: **Aqueous**
Date Sampled: **04/28/2015 0951**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/07/2015 0045	PMM2		74215

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		92	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/07/2015 1434	MEM	05/06/2015 1153	74145

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		99	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-024**
Description: **08650-MW23** Matrix: **Aqueous**
Date Sampled: **04/28/2015 0950**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/07/2015 0108	PMM2		74215

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	**994-05-8**	**8260B**	**0.83**	**J**	**10**	**0.25**	**ug/L**	**1**
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		76	70-130
Bromofluorobenzene		74	70-130
Toluene-d8		78	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/07/2015 1444	MEM	05/06/2015 1153	74145

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		108	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-025**
Description: **08650-MW24** Matrix: **Aqueous**
Date Sampled: **04/28/2015 1325**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	20	05/07/2015 0456	PMM2		74215

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**2100**		**400**	**29**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		200	5.0	ug/L	1
Benzene	**71-43-2**	**8260B**	**2000**		**100**	**4.2**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		100	13	ug/L	1
1,2-Dichloroethane	**107-06-2**	**8260B**	**75**	**J**	**100**	**6.0**	**ug/L**	**1**
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**610**		**100**	**8.0**	**ug/L**	**1**
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		400	30	ug/L	1
Ethanol	64-17-5	8260B	ND		2000	390	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**690**		**100**	**34**	**ug/L**	**1**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		20	4.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		100	8.0	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**120**		**100**	**34**	**ug/L**	**1**
tert-butyl alcohol (TBA)	**75-65-0**	**8260B**	**160**	**J**	**400**	**46**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**73**	**J**	**100**	**34**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**3200**		**100**	**34**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		86	70-130
Toluene-d8		91	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/07/2015 1515	MEM	05/06/2015 1153	74145

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**0.017**	**JP**	**0.020**	**0.0049**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		110	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.**
Description: **08650-MW25**
Date Sampled: **04/28/2015 1438**
Date Received: **04/30/2015**
Laboratory ID: **QD30034-026**
Matrix: **Aqueous**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/07/2015 0131	PMM2		74215

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		85	70-130
Toluene-d8		88	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/07/2015 1525	MEM	05/06/2015 1153	74145

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0048	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		118	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
B = Detected in the method blank
J = Estimated result < PQL and ≥ MDL
E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
H = Out of holding time
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-027**
Description: **08650-MW26** Matrix: **Aqueous**
Date Sampled: **04/28/2015 1150**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/07/2015 0154	PMM2		74215

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		80	70-130
Bromofluorobenzene		77	70-130
Toluene-d8		78	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/07/2015 1536	MEM	05/06/2015 1153	74145

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		96	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-028**
Description: **08650-MW27** Matrix: **Aqueous**
Date Sampled: **04/28/2015 1510**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/07/2015 0433	PMM2		74215

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**2.2**	**J**	**20**	**1.5**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	**71-43-2**	**8260B**	**21**		**5.0**	**0.21**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	**107-06-2**	**8260B**	**0.76**	**J**	**5.0**	**0.30**	**ug/L**	**1**
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**0.55**	**J**	**5.0**	**0.40**	**ug/L**	**1**
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**60**		**5.0**	**1.7**	**ug/L**	**1**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**20**		**5.0**	**1.7**	**ug/L**	**1**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	**108-88-3**	**8260B**	**100**		**5.0**	**1.7**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**270**		**5.0**	**1.7**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		75	70-130
Bromofluorobenzene		72	70-130
Toluene-d8		73	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/07/2015 1546	MEM	05/06/2015 1153	74145

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**0.58**		**0.020**	**0.0050**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		101	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-029**
Description: **08650-MW28** Matrix: **Aqueous**
Date Sampled: **04/28/2015 1455**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	50	05/07/2015 0519	PMM2		74215

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**210**	**J**	**1000**	**73**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		500	13	ug/L	1
Benzene	**71-43-2**	**8260B**	**28**	**J**	**250**	**11**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		250	33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		250	15	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		250	20	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		1000	75	ug/L	1
Ethanol	64-17-5	8260B	ND		5000	960	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**1100**		**250**	**85**	**ug/L**	**1**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		50	10	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		250	20	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**350**		**250**	**85**	**ug/L**	**1**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		1000	110	ug/L	1
Toluene	**108-88-3**	**8260B**	**530**		**250**	**85**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**5700**		**250**	**85**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		78	70-130
Bromofluorobenzene		75	70-130
Toluene-d8		78	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/07/2015 1556	MEM	05/06/2015 1153	74145

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**0.23**		**0.020**	**0.0049**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		83	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-030**
Description: **08650-MW29** Matrix: **Aqueous**
Date Sampled: **04/28/2015 1430**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	100	05/07/2015 0542	PMM2		74215

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**12000**		**2000**	**150**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		1000	25	ug/L	1
Benzene	**71-43-2**	**8260B**	**8900**		**500**	**21**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		500	66	ug/L	1
1,2-Dichloroethane	**107-06-2**	**8260B**	**620**		**500**	**30**	**ug/L**	**1**
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**2600**		**500**	**40**	**ug/L**	**1**
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		2000	150	ug/L	1
Ethanol	64-17-5	8260B	ND		10000	1900	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**930**		**500**	**170**	**ug/L**	**1**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	20	ug/L	1
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**47**	**J**	**500**	**40**	**ug/L**	**1**
Naphthalene	**91-20-3**	**8260B**	**280**	**J**	**500**	**170**	**ug/L**	**1**
tert-butyl alcohol (TBA)	**75-65-0**	**8260B**	**1200**	**J**	**2000**	**230**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**11000**		**500**	**170**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**4400**		**500**	**170**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		78	70-130
Bromofluorobenzene		75	70-130
Toluene-d8		78	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	200	05/08/2015 1236	MEM	05/06/2015 1153	74145

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**170**		**3.9**	**0.98**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane	N	0.00	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-031**
Description: **08650-MW30** Matrix: **Aqueous**
Date Sampled: **04/28/2015 1041**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/07/2015 0216	PMM2		74215

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	**107-06-2**	**8260B**	**9.8**		**5.0**	**0.30**	**ug/L**	**1**
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**110**		**5.0**	**0.40**	**ug/L**	**1**
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		76	70-130
Bromofluorobenzene		74	70-130
Toluene-d8		77	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/07/2015 1617	MEM	05/06/2015 1153	74145

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		74	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-032**
Description: **08650-MW31** Matrix: **Aqueous**
Date Sampled: **04/28/2015 1054**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/07/2015 0239	PMM2		74215

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		87	70-130
Bromofluorobenzene		82	70-130
Toluene-d8		84	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/07/2015 1627	MEM	05/06/2015 1153	74145

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		97	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-033**
Description: **08650-MW33** Matrix: **Aqueous**
Date Sampled: **04/28/2015 1308**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/07/2015 0302	PMM2		74215

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		80	70-130
Bromofluorobenzene		75	70-130
Toluene-d8		75	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/07/2015 1637	MEM	05/06/2015 1153	74145

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		106	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-034**
Description: **08650-MW34** Matrix: **Aqueous**
Date Sampled: **04/28/2015 1321**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/07/2015 0325	PMM2		74215

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		80	70-130
Bromofluorobenzene		76	70-130
Toluene-d8		75	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/07/2015 1647	MEM	05/06/2015 1153	74145

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		103	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-035**
Description: **08650-MW35** Matrix: **Aqueous**
Date Sampled: **04/28/2015 1005**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/07/2015 0348	PMM2		74215

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	70-130
Bromofluorobenzene		85	70-130
Toluene-d8		86	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/07/2015 1658	MEM	05/06/2015 1153	74145

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		121	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.**	Laboratory ID: **QD30034-036**
Description: **08650-MW36**	Matrix: **Aqueous**
Date Sampled: **04/28/2015 1050**	
Date Received: **04/30/2015**	

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	20	05/07/2015 0605	PMM2		74215
2	5030B	8260B	5	05/08/2015 1635	PAP		74368

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**140**		**100**	**7.3**	**ug/L**	**2**
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		50	1.3	ug/L	2
Benzene	71-43-2	8260B	ND		25	1.1	ug/L	2
tert-Butyl formate (TBF)	762-75-4	8260B	ND		25	3.3	ug/L	2
1,2-Dichloroethane	107-06-2	8260B	ND		25	1.5	ug/L	2
Diisopropyl ether (IPE)	108-20-3	8260B	ND		25	2.0	ug/L	2
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	7.5	ug/L	2
Ethanol	64-17-5	8260B	ND		500	96	ug/L	2
Ethylbenzene	**100-41-4**	**8260B**	**220**		**25**	**8.5**	**ug/L**	**2**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		5.0	1.0	ug/L	2
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		25	2.0	ug/L	2
Naphthalene	**91-20-3**	**8260B**	**88**		**25**	**8.5**	**ug/L**	**2**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	11	ug/L	2
Toluene	**108-88-3**	**8260B**	**170**		**25**	**8.5**	**ug/L**	**2**
Xylenes (total)	**1330-20-7**	**8260B**	**890**		**100**	**34**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	70-130		97	70-130
Bromofluorobenzene		88	70-130		97	70-130
Toluene-d8		92	70-130		97	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/07/2015 1708	MEM	05/06/2015 1153	74145

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		100	57-137

PQL = Practical quantitation limit | B = Detected in the method blank | E = Quantitation of compound exceeded the calibration range | H = Out of holding time
ND = Not detected at or above the MDL | J = Estimated result < PQL and ≥ MDL | P = The RPD between two GC columns exceeds 40% | N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-037**
Description: **08650-MW37** Matrix: **Aqueous**
Date Sampled: **04/28/2015 0915**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/07/2015 0411	PMM2		74215

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		79	70-130
Bromofluorobenzene		75	70-130
Toluene-d8		78	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/07/2015 1718	MEM	05/06/2015 1153	74145

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		123	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-038**
Description: **08650-MW38** Matrix: **Aqueous**
Date Sampled: **04/28/2015 0820**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/07/2015 1137	PAP		74241

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		99	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/07/2015 1728	MEM	05/06/2015 1153	74145

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		118	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-039**
Description: **08650-MW39** Matrix: **Aqueous**
Date Sampled: **04/28/2015 0835**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/07/2015 1159	PAP		74241

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		99	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/07/2015 1738	MEM	05/06/2015 1153	74145

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		96	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-040**
Description: **08650-MW40** Matrix: **Aqueous**
Date Sampled: **04/28/2015 1253**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/07/2015 1221	PAP		74241

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		92	70-130
Toluene-d8		95	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/07/2015 1819	MEM	05/06/2015 1202	74146

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		97	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-041**
Description: **08650-MW41** Matrix: **Aqueous**
Date Sampled: **04/27/2015 1610**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/07/2015 1244	PAP		74241

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		100	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/07/2015 1830	MEM	05/06/2015 1202	74146

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		93	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-042**
Description: **08650-MW42** Matrix: **Aqueous**
Date Sampled: **04/27/2015 1559**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/07/2015 1306	PAP		74241

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		100	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/07/2015 1840	MEM	05/06/2015 1202	74146

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		96	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-043**
Description: **08650-MW43** Matrix: **Aqueous**
Date Sampled: **04/27/2015 1625**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/07/2015 1328	PAP		74241

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	70-130
Bromofluorobenzene		92	70-130
Toluene-d8		100	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/07/2015 1850	MEM	05/06/2015 1202	74146

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		102	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-044**
Description: **08650-PMW01** Matrix: **Aqueous**
Date Sampled: **04/29/2015 0846**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	100	05/07/2015 1435	PAP		74241

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**2500**		**2000**	**150**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		1000	25	ug/L	1
Benzene	**71-43-2**	**8260B**	**6600**		**500**	**21**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		500	66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		500	30	ug/L	1
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**3800**		**500**	**40**	**ug/L**	**1**
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		2000	150	ug/L	1
Ethanol	64-17-5	8260B	ND		10000	1900	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		500	170	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		100	20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		500	40	ug/L	1
Naphthalene	91-20-3	8260B	ND		500	170	ug/L	1
tert-butyl alcohol (TBA)	**75-65-0**	**8260B**	**520**	**J**	**2000**	**230**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**460**	**J**	**500**	**170**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**1300**		**500**	**170**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		102	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/07/2015 1900	MEM	05/06/2015 1202	74146

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		99	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-045**
Description: **08650-DW01** Matrix: **Aqueous**
Date Sampled: **04/29/2015 0921**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	05/07/2015 1458	PAP		74241

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**590**		**100**	**7.3**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		50	1.3	ug/L	1
Benzene	**71-43-2**	**8260B**	**290**		**25**	**1.1**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		25	3.3	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		25	1.5	ug/L	1
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**170**		**25**	**2.0**	**ug/L**	**1**
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	7.5	ug/L	1
Ethanol	64-17-5	8260B	ND		500	96	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		25	8.5	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		5.0	1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		25	2.0	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**13**	**J**	**25**	**8.5**	**ug/L**	**1**
tert-butyl alcohol (TBA)	**75-65-0**	**8260B**	**64**	**J**	**100**	**11**	**ug/L**	**1**
Toluene	108-88-3	8260B	ND		25	8.5	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		25	8.5	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		101	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/07/2015 1911	MEM	05/06/2015 1202	74146

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		102	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-046**
Description: **08650-DW02** Matrix: **Aqueous**
Date Sampled: **04/29/2015 1052**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	05/07/2015 1520	PAP		74241

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		100	7.3	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		50	1.3	ug/L	1
Benzene	**71-43-2**	**8260B**	**4.7**	**J**	**25**	**1.1**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		25	3.3	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		25	1.5	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		25	2.0	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	7.5	ug/L	1
Ethanol	**64-17-5**	**8260B**	**620**		**500**	**96**	**ug/L**	**1**
Ethylbenzene	100-41-4	8260B	ND		25	8.5	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		5.0	1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		25	2.0	ug/L	1
Naphthalene	91-20-3	8260B	ND		25	8.5	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	11	ug/L	1
Toluene	**108-88-3**	**8260B**	**440**		**25**	**8.5**	**ug/L**	**1**
Xylenes (total)	1330-20-7	8260B	ND		25	8.5	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		99	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/08/2015 1258	MEM	05/06/2015 1202	74146

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.021	0.0052	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		78	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-047**
Description: **08650-DW03** Matrix: **Aqueous**
Date Sampled: **04/28/2015 1614**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	5	05/08/2015 1657	PAP		74368

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**48**	**J**	**100**	**7.3**	**ug/L**	**2**
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		50	1.3	ug/L	2
Benzene	**71-43-2**	**8260B**	**12**	**J**	**25**	**1.1**	**ug/L**	**2**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		25	3.3	ug/L	2
1,2-Dichloroethane	107-06-2	8260B	ND		25	1.5	ug/L	2
Diisopropyl ether (IPE)	108-20-3	8260B	ND		25	2.0	ug/L	2
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	7.5	ug/L	2
Ethanol	64-17-5	8260B	ND		500	96	ug/L	2
Ethylbenzene	**100-41-4**	**8260B**	**94**		**25**	**8.5**	**ug/L**	**2**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		5.0	1.0	ug/L	2
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		25	2.0	ug/L	2
Naphthalene	**91-20-3**	**8260B**	**24**	**J**	**25**	**8.5**	**ug/L**	**2**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	11	ug/L	2
Toluene	**108-88-3**	**8260B**	**260**		**25**	**8.5**	**ug/L**	**2**
Xylenes (total)	**1330-20-7**	**8260B**	**510**		**25**	**8.5**	**ug/L**	**2**

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		96	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/07/2015 1931	MEM	05/06/2015 1202	74146

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.019	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		97	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-048**
Description: **08650-DW04** Matrix: **Aqueous**
Date Sampled: **04/28/2015 1414**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/07/2015 1413	PAP		74241

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	**71-43-2**	**8260B**	**2.6**	**J**	**5.0**	**0.21**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**1.7**	**J**	**5.0**	**0.40**	**ug/L**	**1**
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**12**		**5.0**	**1.7**	**ug/L**	**1**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**5.1**		**5.0**	**1.7**	**ug/L**	**1**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	**108-88-3**	**8260B**	**15**		**5.0**	**1.7**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**48**		**5.0**	**1.7**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		97	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/07/2015 1942	MEM	05/06/2015 1202	74146

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		93	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-049**
Description: **08650-DW05** Matrix: **Aqueous**
Date Sampled: **04/29/2015 1011**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	5	05/07/2015 1605	PAP		74241

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**690**		**100**	**7.3**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		50	1.3	ug/L	1
Benzene	**71-43-2**	**8260B**	**640**		**25**	**1.1**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		25	3.3	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		25	1.5	ug/L	1
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**100**		**25**	**2.0**	**ug/L**	**1**
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		100	7.5	ug/L	1
Ethanol	64-17-5	8260B	ND		500	96	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		25	8.5	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		5.0	1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		25	2.0	ug/L	1
Naphthalene	**91-20-3**	**8260B**	**70**		**25**	**8.5**	**ug/L**	**1**
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		100	11	ug/L	1
Toluene	108-88-3	8260B	ND		25	8.5	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		25	8.5	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		99	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/07/2015 1952	MEM	05/06/2015 1202	74146

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		96	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-050**
Description: **08650-DW06** Matrix: **Aqueous**
Date Sampled: **04/29/2015 1122**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/07/2015 1350	PAP		74241

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	**71-43-2**	**8260B**	**2.1**	**J**	**5.0**	**0.21**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	**108-88-3**	**8260B**	**5.9**		**5.0**	**1.7**	**ug/L**	**1**
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		92	70-130
Toluene-d8		98	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/07/2015 2002	MEM	05/06/2015 1202	74146

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		103	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-051**
Description: **08650-RW01** Matrix: **Aqueous**
Date Sampled: **04/29/2015 0950**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	50	05/07/2015 1627	PAP		74241

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**3600**		**1000**	**73**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		500	13	ug/L	1
Benzene	**71-43-2**	**8260B**	**3000**		**250**	**11**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		250	33	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		250	15	ug/L	1
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**4200**		**250**	**20**	**ug/L**	**1**
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		1000	75	ug/L	1
Ethanol	64-17-5	8260B	ND		5000	960	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**850**		**250**	**85**	**ug/L**	**1**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		50	10	ug/L	1
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**230**	**J**	**250**	**20**	**ug/L**	**1**
Naphthalene	**91-20-3**	**8260B**	**190**	**J**	**250**	**85**	**ug/L**	**1**
tert-butyl alcohol (TBA)	**75-65-0**	**8260B**	**1500**		**1000**	**110**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**2800**		**250**	**85**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**4400**		**250**	**85**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		101	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	5	05/08/2015 1320	MEM	05/06/2015 1202	74146

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**1.4**		**0.098**	**0.024**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		116	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-052**
Description: **08650-RW02** Matrix: **Aqueous**
Date Sampled: **04/29/2015 1130**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	500	05/07/2015 1650	PAP		74241

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	**75-85-4**	**8260B**	**53000**		**10000**	**730**	**ug/L**	**1**
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		5000	130	ug/L	1
Benzene	**71-43-2**	**8260B**	**36000**		**2500**	**110**	**ug/L**	**1**
tert-Butyl formate (TBF)	762-75-4	8260B	ND		2500	330	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		2500	150	ug/L	1
Diisopropyl ether (IPE)	**108-20-3**	**8260B**	**24000**		**2500**	**200**	**ug/L**	**1**
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		10000	750	ug/L	1
Ethanol	64-17-5	8260B	ND		50000	9600	ug/L	1
Ethylbenzene	**100-41-4**	**8260B**	**1900**	**J**	**2500**	**850**	**ug/L**	**1**
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		500	100	ug/L	1
Methyl tertiary butyl ether (MTBE)	**1634-04-4**	**8260B**	**11000**		**2500**	**200**	**ug/L**	**1**
Naphthalene	91-20-3	8260B	ND		2500	850	ug/L	1
tert-butyl alcohol (TBA)	**75-65-0**	**8260B**	**9500**	**J**	**10000**	**1100**	**ug/L**	**1**
Toluene	**108-88-3**	**8260B**	**34000**		**2500**	**850**	**ug/L**	**1**
Xylenes (total)	**1330-20-7**	**8260B**	**12000**		**2500**	**850**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		99	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/07/2015 2043	MEM	05/06/2015 1202	74146

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	**106-93-4**	**8011**	**0.69**		**0.020**	**0.0049**	**ug/L**	**1**

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		90	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-053**
Description: **FIELD BLANK 01** Matrix: **Aqueous**
Date Sampled: **04/27/2015 1530**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/07/2015 0945	PAP		74241

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		101	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/07/2015 2054	MEM	05/06/2015 1202	74146

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		89	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-054**
Description: **FIELD BLANK 02** Matrix: **Aqueous**
Date Sampled: **04/28/2015 0800**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/07/2015 1007	PAP		74241

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		102	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/07/2015 2104	MEM	05/06/2015 1202	74146

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0049	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		99	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-055**
Description: **FIELD BLANK 03** Matrix: **Aqueous**
Date Sampled: **04/29/2015 0730**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/07/2015 1030	PAP		74241

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		101	70-130

EDB & DBCP by Microextraction

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	8011	8011	1	05/07/2015 2114	MEM	05/06/2015 1202	74146

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND		0.020	0.0050	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,1,1,2-Tetrachloroethane		116	57-137

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time
ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.** Laboratory ID: **QD30034-056**

Description: **TRIP BLANK 01** Matrix: **Aqueous**

Date Sampled: **04/27/2015**

Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/07/2015 1052	PAP		74241

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		99	70-130

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range H = Out of holding time

ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40% N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Client: **Bunnell-Lammons Engineering, Inc.**
Laboratory ID: **QD30034-057**
Description: **TRIP BLANK 02**
Matrix: **Aqueous**
Date Sampled: **04/27/2015**
Date Received: **04/30/2015**

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/07/2015 1114	PAP		74241

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64-17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND		20	2.3	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		100	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
E = Quantitation of compound exceeded the calibration range
H = Out of holding time
ND = Not detected at or above the MDL
J = Estimated result < PQL and ≥ MDL
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ74215-001
Batch: 74215
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	1.5	ug/L	05/06/2015 2158
tert-Amyl methyl ether (TAME)	ND		1	10	0.25	ug/L	05/06/2015 2158
Benzene	ND		1	5.0	0.21	ug/L	05/06/2015 2158
tert-Butyl formate (TBF)	ND		1	5.0	0.66	ug/L	05/06/2015 2158
1,2-Dichloroethane	ND		1	5.0	0.30	ug/L	05/06/2015 2158
Diisopropyl ether (IPE)	ND		1	5.0	0.40	ug/L	05/06/2015 2158
3,3-Dimethyl-1-butanol	ND		1	20	1.5	ug/L	05/06/2015 2158
Ethanol	ND		1	100	19	ug/L	05/06/2015 2158
Ethylbenzene	ND		1	5.0	1.7	ug/L	05/06/2015 2158
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.20	ug/L	05/06/2015 2158
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	05/06/2015 2158
Naphthalene	ND		1	5.0	1.7	ug/L	05/06/2015 2158
tert-butyl alcohol (TBA)	ND		1	20	2.3	ug/L	05/06/2015 2158
Toluene	ND		1	5.0	1.7	ug/L	05/06/2015 2158
Xylenes (total)	ND		1	5.0	1.7	ug/L	05/06/2015 2158

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		112	70-130
1,2-Dichloroethane-d4		118	70-130
Toluene-d8		118	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ74215-002
Batch: 74215
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	910		1	91	70-130	05/06/2015 2112
tert-Amyl methyl ether (TAME)	50	44		1	88	70-130	05/06/2015 2112
Benzene	50	42		1	83	70-130	05/06/2015 2112
tert-Butyl formate (TBF)	250	250		1	101	70-130	05/06/2015 2112
1,2-Dichloroethane	50	48		1	96	70-130	05/06/2015 2112
Diisopropyl ether (IPE)	50	44		1	88	70-130	05/06/2015 2112
3,3-Dimethyl-1-butanol	1000	930		1	93	70-130	05/06/2015 2112
Ethanol	5000	4900		1	98	60-140	05/06/2015 2112
Ethylbenzene	50	44		1	88	70-130	05/06/2015 2112
Ethyl-tert-butyl ether (ETBE)	50	48		1	96	70-130	05/06/2015 2112
Methyl tertiary butyl ether (MTBE)	50	47		1	93	70-130	05/06/2015 2112
Naphthalene	50	41		1	83	70-130	05/06/2015 2112
tert-butyl alcohol (TBA)	1000	930		1	93	70-130	05/06/2015 2112
Toluene	50	44		1	87	70-130	05/06/2015 2112
Xylenes (total)	100	87		1	87	70-130	05/06/2015 2112

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		96	70-130
1,2-Dichloroethane-d4		96	70-130
Toluene-d8		95	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

Volatile Organic Compounds by GC/MS - MS

Sample ID: QD30034-036MS
Batch: 74215
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	140	20000	14000		20	71	70-130	05/07/2015 0628
tert-Amyl methyl ether (TAME)	ND	1000	840		20	84	70-130	05/07/2015 0628
Benzene	ND	1000	820		20	82	70-130	05/07/2015 0628
tert-Butyl formate (TBF)	ND	5000	3200	N	20	63	70-130	05/07/2015 0628
1,2-Dichloroethane	ND	1000	930		20	93	70-130	05/07/2015 0628
Diisopropyl ether (IPE)	ND	1000	840		20	84	70-130	05/07/2015 0628
3,3-Dimethyl-1-butanol	ND	20000	14000		20	72	70-130	05/07/2015 0628
Ethanol	ND	100000	73000		20	73	70-130	05/07/2015 0628
Ethylbenzene	220	1000	1100		20	90	70-130	05/07/2015 0628
Ethyl-tert-butyl ether (ETBE)	ND	1000	890		20	89	70-130	05/07/2015 0628
Methyl tertiary butyl ether (MTBE)	ND	1000	890		20	89	70-130	05/07/2015 0628
Naphthalene	88	1000	810		20	72	70-130	05/07/2015 0628
tert-butyl alcohol (TBA)	ND	20000	15000		20	76	70-130	05/07/2015 0628
Toluene	170	1000	1100		20	90	70-130	05/07/2015 0628
Xylenes (total)	890	2000	2600		20	85	70-130	05/07/2015 0628

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		81	70-130
Bromofluorobenzene		84	70-130
Toluene-d8		88	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

Volatile Organic Compounds by GC/MS - MSD

Sample ID: QD30034-036MD
Batch: 74215
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	140	20000	14000		20	71	1.2	70-130	20	05/07/2015 0651
tert-Amyl methyl ether (TAME)	ND	1000	750		20	75	11	70-130	20	05/07/2015 0651
Benzene	ND	1000	740		20	74	11	70-130	20	05/07/2015 0651
tert-Butyl formate (TBF)	ND	5000	2800	N	20	56	11	70-130	20	05/07/2015 0651
1,2-Dichloroethane	ND	1000	840		20	84	9.2	70-130	20	05/07/2015 0651
Diisopropyl ether (IPE)	ND	1000	780		20	78	8.1	70-130	20	05/07/2015 0651
3,3-Dimethyl-1-butanol	ND	20000	14000		20	72	0.35	70-130	20	05/07/2015 0651
Ethanol	ND	100000	74000		20	74	0.80	70-130	20	05/07/2015 0651
Ethylbenzene	220	1000	1000		20	80	8.9	70-130	20	05/07/2015 0651
Ethyl-tert-butyl ether (ETBE)	ND	1000	830		20	83	7.3	70-130	20	05/07/2015 0651
Methyl tertiary butyl ether (MTBE)	ND	1000	800		20	80	11	70-130	20	05/07/2015 0651
Naphthalene	88	1000	770	N	20	68	5.1	70-130	20	05/07/2015 0651
tert-butyl alcohol (TBA)	ND	20000	15000		20	75	1.2	70-130	20	05/07/2015 0651
Toluene	170	1000	960		20	81	8.9	70-130	20	05/07/2015 0651
Xylenes (total)	890	2000	2400		20	75	7.6	70-130	20	05/07/2015 0651

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		76	70-130
Bromofluorobenzene		77	70-130
Toluene-d8		80	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ74217-001
Batch: 74217
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	1.5	ug/L	05/06/2015 2101
tert-Amyl methyl ether (TAME)	ND		1	10	0.25	ug/L	05/06/2015 2101
Benzene	ND		1	5.0	0.21	ug/L	05/06/2015 2101
tert-Butyl formate (TBF)	ND		1	5.0	0.66	ug/L	05/06/2015 2101
1,2-Dichloroethane	ND		1	5.0	0.30	ug/L	05/06/2015 2101
Diisopropyl ether (IPE)	ND		1	5.0	0.40	ug/L	05/06/2015 2101
3,3-Dimethyl-1-butanol	ND		1	20	1.5	ug/L	05/06/2015 2101
Ethanol	ND		1	100	19	ug/L	05/06/2015 2101
Ethylbenzene	ND		1	5.0	1.7	ug/L	05/06/2015 2101
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.20	ug/L	05/06/2015 2101
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	05/06/2015 2101
Naphthalene	ND		1	5.0	1.7	ug/L	05/06/2015 2101
tert-butyl alcohol (TBA)	ND		1	20	2.3	ug/L	05/06/2015 2101
Toluene	ND		1	5.0	1.7	ug/L	05/06/2015 2101
Xylenes (total)	ND		1	5.0	1.7	ug/L	05/06/2015 2101

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		96	70-130
1,2-Dichloroethane-d4		87	70-130
Toluene-d8		94	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ74217-002
Batch: 74217
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	950		1	95	70-130	05/06/2015 2017
tert-Amyl methyl ether (TAME)	50	50		1	99	70-130	05/06/2015 2017
Benzene	50	55		1	110	70-130	05/06/2015 2017
tert-Butyl formate (TBF)	250	200		1	82	70-130	05/06/2015 2017
1,2-Dichloroethane	50	57		1	113	70-130	05/06/2015 2017
Diisopropyl ether (IPE)	50	52		1	104	70-130	05/06/2015 2017
3,3-Dimethyl-1-butanol	1000	1000		1	101	70-130	05/06/2015 2017
Ethanol	5000	5300		1	107	60-140	05/06/2015 2017
Ethylbenzene	50	53		1	106	70-130	05/06/2015 2017
Ethyl-tert-butyl ether (ETBE)	50	52		1	104	70-130	05/06/2015 2017
Methyl tertiary butyl ether (MTBE)	50	52		1	104	70-130	05/06/2015 2017
Naphthalene	50	46		1	91	70-130	05/06/2015 2017
tert-butyl alcohol (TBA)	1000	960		1	96	70-130	05/06/2015 2017
Toluene	50	52		1	105	70-130	05/06/2015 2017
Xylenes (total)	100	100		1	104	70-130	05/06/2015 2017

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		99	70-130
1,2-Dichloroethane-d4		88	70-130
Toluene-d8		93	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

Volatile Organic Compounds by GC/MS - MS

Sample ID: QD30034-013MS
Batch: 74217
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	ND	50000	44000		50	88	70-130	05/07/2015 0510
tert-Amyl methyl ether (TAME)	ND	2500	2400		50	97	70-130	05/07/2015 0510
Benzene	21	2500	2900		50	114	70-130	05/07/2015 0510
tert-Butyl formate (TBF)	ND	13000	8300	N	50	67	70-130	05/07/2015 0510
1,2-Dichloroethane	ND	2500	2900		50	117	70-130	05/07/2015 0510
Diisopropyl ether (IPE)	ND	2500	2500		50	100	70-130	05/07/2015 0510
3,3-Dimethyl-1-butanol	ND	50000	51000		50	101	70-130	05/07/2015 0510
Ethanol	ND	250000	250000		50	100	70-130	05/07/2015 0510
Ethylbenzene	38	2500	2900		50	116	70-130	05/07/2015 0510
Ethyl-tert-butyl ether (ETBE)	ND	2500	2500		50	100	70-130	05/07/2015 0510
Methyl tertiary butyl ether (MTBE)	ND	2500	2400		50	97	70-130	05/07/2015 0510
Naphthalene	13	2500	2300		50	94	70-130	05/07/2015 0510
tert-butyl alcohol (TBA)	ND	50000	46000		50	91	70-130	05/07/2015 0510
Toluene	ND	2500	2800		50	113	70-130	05/07/2015 0510
Xylenes (total)	110	5000	5800		50	114	70-130	05/07/2015 0510

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		98	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

Volatile Organic Compounds by GC/MS - MSD

Sample ID: QD30034-013MD
Batch: 74217
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	ND	50000	40000		50	81	8.3	70-130	20	05/07/2015 0532
tert-Amyl methyl ether (TAME)	ND	2500	2300		50	92	6.0	70-130	20	05/07/2015 0532
Benzene	21	2500	2700		50	106	7.6	70-130	20	05/07/2015 0532
tert-Butyl formate (TBF)	ND	13000	7700	N	50	62	7.4	70-130	20	05/07/2015 0532
1,2-Dichloroethane	ND	2500	2700		50	108	7.8	70-130	20	05/07/2015 0532
Diisopropyl ether (IPE)	ND	2500	2300		50	93	7.4	70-130	20	05/07/2015 0532
3,3-Dimethyl-1-butanol	ND	50000	46000		50	93	8.8	70-130	20	05/07/2015 0532
Ethanol	ND	250000	230000		50	92	8.0	70-130	20	05/07/2015 0532
Ethylbenzene	38	2500	2700		50	108	6.9	70-130	20	05/07/2015 0532
Ethyl-tert-butyl ether (ETBE)	ND	2500	2300		50	92	8.3	70-130	20	05/07/2015 0532
Methyl tertiary butyl ether (MTBE)	ND	2500	2300		50	91	6.3	70-130	20	05/07/2015 0532
Naphthalene	13	2500	2300		50	94	0.19	70-130	20	05/07/2015 0532
tert-butyl alcohol (TBA)	ND	50000	42000		50	85	7.2	70-130	20	05/07/2015 0532
Toluene	ND	2500	2700		50	106	5.7	70-130	20	05/07/2015 0532
Xylenes (total)	110	5000	5400		50	106	7.3	70-130	20	05/07/2015 0532

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		101	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ74241-001
Batch: 74241
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	1.5	ug/L	05/07/2015 0908
tert-Amyl methyl ether (TAME)	ND		1	10	0.25	ug/L	05/07/2015 0908
Benzene	ND		1	5.0	0.21	ug/L	05/07/2015 0908
tert-Butyl formate (TBF)	ND		1	5.0	0.66	ug/L	05/07/2015 0908
1,2-Dichloroethane	ND		1	5.0	0.30	ug/L	05/07/2015 0908
Diisopropyl ether (IPE)	ND		1	5.0	0.40	ug/L	05/07/2015 0908
3,3-Dimethyl-1-butanol	ND		1	20	1.5	ug/L	05/07/2015 0908
Ethanol	ND		1	100	19	ug/L	05/07/2015 0908
Ethylbenzene	ND		1	5.0	1.7	ug/L	05/07/2015 0908
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.20	ug/L	05/07/2015 0908
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	05/07/2015 0908
Naphthalene	ND		1	5.0	1.7	ug/L	05/07/2015 0908
tert-butyl alcohol (TBA)	ND		1	20	2.3	ug/L	05/07/2015 0908
Toluene	ND		1	5.0	1.7	ug/L	05/07/2015 0908
Xylenes (total)	ND		1	5.0	1.7	ug/L	05/07/2015 0908

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		95	70-130
1,2-Dichloroethane-d4		95	70-130
Toluene-d8		103	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ74241-002
Batch: 74241
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	910		1	91	70-130	05/07/2015 0804
tert-Amyl methyl ether (TAME)	50	49		1	97	70-130	05/07/2015 0804
Benzene	50	54		1	107	70-130	05/07/2015 0804
tert-Butyl formate (TBF)	250	190		1	78	70-130	05/07/2015 0804
1,2-Dichloroethane	50	57		1	113	70-130	05/07/2015 0804
Diisopropyl ether (IPE)	50	49		1	98	70-130	05/07/2015 0804
3,3-Dimethyl-1-butanol	1000	1100		1	105	70-130	05/07/2015 0804
Ethanol	5000	5200		1	104	60-140	05/07/2015 0804
Ethylbenzene	50	54		1	108	70-130	05/07/2015 0804
Ethyl-tert-butyl ether (ETBE)	50	48		1	96	70-130	05/07/2015 0804
Methyl tertiary butyl ether (MTBE)	50	48		1	97	70-130	05/07/2015 0804
Naphthalene	50	40		1	81	70-130	05/07/2015 0804
tert-butyl alcohol (TBA)	1000	910		1	91	70-130	05/07/2015 0804
Toluene	50	53		1	106	70-130	05/07/2015 0804
Xylenes (total)	100	110		1	107	70-130	05/07/2015 0804

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		97	70-130
1,2-Dichloroethane-d4		95	70-130
Toluene-d8		97	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

Volatile Organic Compounds by GC/MS - MS

Sample ID: QD30034-047MS
Batch: 74241
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	48	10000	8600		10	86	70-130	05/07/2015 1712
tert-Amyl methyl ether (TAME)	ND	500	480		10	96	70-130	05/07/2015 1712
Benzene	12	500	570		10	112	70-130	05/07/2015 1712
tert-Butyl formate (TBF)	ND	2500	750	N	10	30	70-130	05/07/2015 1712
1,2-Dichloroethane	ND	500	580		10	116	70-130	05/07/2015 1712
Diisopropyl ether (IPE)	ND	500	490		10	98	70-130	05/07/2015 1712
3,3-Dimethyl-1-butanol	ND	10000	9500		10	95	70-130	05/07/2015 1712
Ethanol	ND	50000	49000		10	97	70-130	05/07/2015 1712
Ethylbenzene	94	500	640		10	113	70-130	05/07/2015 1712
Ethyl-tert-butyl ether (ETBE)	ND	500	490		10	98	70-130	05/07/2015 1712
Methyl tertiary butyl ether (MTBE)	ND	500	480		10	96	70-130	05/07/2015 1712
Naphthalene	24	500	470		10	91	70-130	05/07/2015 1712
tert-butyl alcohol (TBA)	ND	10000	9700		10	97	70-130	05/07/2015 1712
Toluene	260	500	760		10	112	70-130	05/07/2015 1712
Xylenes (total)	510	1000	1500		10	115	70-130	05/07/2015 1712

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		97	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

Volatile Organic Compounds by GC/MS - MSD

Sample ID: QD30034-047MD
Batch: 74241
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	48	10000	7800		10	78	9.7	70-130	20	05/07/2015 1750
tert-Amyl methyl ether (TAME)	ND	500	430		10	86	11	70-130	20	05/07/2015 1750
Benzene	12	500	510		10	101	9.8	70-130	20	05/07/2015 1750
tert-Butyl formate (TBF)	ND	2500	650	N	10	26	15	70-130	20	05/07/2015 1750
1,2-Dichloroethane	ND	500	520		10	103	12	70-130	20	05/07/2015 1750
Diisopropyl ether (IPE)	ND	500	440		10	88	11	70-130	20	05/07/2015 1750
3,3-Dimethyl-1-butanol	ND	10000	8500		10	85	11	70-130	20	05/07/2015 1750
Ethanol	ND	50000	47000		10	93	4.2	70-130	20	05/07/2015 1750
Ethylbenzene	94	500	580		10	101	9.2	70-130	20	05/07/2015 1750
Ethyl-tert-butyl ether (ETBE)	ND	500	440		10	88	12	70-130	20	05/07/2015 1750
Methyl tertiary butyl ether (MTBE)	ND	500	430		10	85	11	70-130	20	05/07/2015 1750
Naphthalene	24	500	410		10	80	13	70-130	20	05/07/2015 1750
tert-butyl alcohol (TBA)	ND	10000	8900		10	89	8.2	70-130	20	05/07/2015 1750
Toluene	260	500	710		10	101	7.6	70-130	20	05/07/2015 1750
Xylenes (total)	510	1000	1400		10	105	6.7	70-130	20	05/07/2015 1750

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		98	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

Volatile Organic Compounds by GC/MS - MB

Sample ID: QQ74368-001
Batch: 74368
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	1.5	ug/L	05/08/2015 1002
tert-Amyl methyl ether (TAME)	ND		1	10	0.25	ug/L	05/08/2015 1002
Benzene	ND		1	5.0	0.21	ug/L	05/08/2015 1002
tert-Butyl formate (TBF)	ND		1	5.0	0.66	ug/L	05/08/2015 1002
1,2-Dichloroethane	ND		1	5.0	0.30	ug/L	05/08/2015 1002
Diisopropyl ether (IPE)	ND		1	5.0	0.40	ug/L	05/08/2015 1002
3,3-Dimethyl-1-butanol	ND		1	20	1.5	ug/L	05/08/2015 1002
Ethanol	ND		1	100	19	ug/L	05/08/2015 1002
Ethylbenzene	ND		1	5.0	1.7	ug/L	05/08/2015 1002
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.20	ug/L	05/08/2015 1002
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.40	ug/L	05/08/2015 1002
Naphthalene	ND		1	5.0	1.7	ug/L	05/08/2015 1002
tert-butyl alcohol (TBA)	ND		1	20	2.3	ug/L	05/08/2015 1002
Toluene	ND		1	5.0	1.7	ug/L	05/08/2015 1002
Xylenes (total)	ND		1	5.0	1.7	ug/L	05/08/2015 1002

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		93	70-130
1,2-Dichloroethane-d4		95	70-130
Toluene-d8		100	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: QQ74368-002
Batch: 74368
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	910		1	91	70-130	05/08/2015 0902
tert-Amyl methyl ether (TAME)	50	48		1	96	70-130	05/08/2015 0902
Benzene	50	53		1	107	70-130	05/08/2015 0902
tert-Butyl formate (TBF)	250	200		1	80	70-130	05/08/2015 0902
1,2-Dichloroethane	50	54		1	109	70-130	05/08/2015 0902
Diisopropyl ether (IPE)	50	49		1	97	70-130	05/08/2015 0902
3,3-Dimethyl-1-butanol	1000	1000		1	101	70-130	05/08/2015 0902
Ethanol	5000	5200		1	105	60-140	05/08/2015 0902
Ethylbenzene	50	53		1	106	70-130	05/08/2015 0902
Ethyl-tert-butyl ether (ETBE)	50	49		1	97	70-130	05/08/2015 0902
Methyl tertiary butyl ether (MTBE)	50	48		1	97	70-130	05/08/2015 0902
Naphthalene	50	36		1	72	70-130	05/08/2015 0902
tert-butyl alcohol (TBA)	1000	920		1	92	70-130	05/08/2015 0902
Toluene	50	52		1	104	70-130	05/08/2015 0902
Xylenes (total)	100	100		1	103	70-130	05/08/2015 0902

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		96	70-130
1,2-Dichloroethane-d4		94	70-130
Toluene-d8		99	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

Volatile Organic Compounds by GC/MS - MS

Sample ID: QD30034-047MS
Batch: 74368
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	48	5000	3900		5	77	70-130	05/08/2015 1804
tert-Amyl methyl ether (TAME)	ND	250	230		5	90	70-130	05/08/2015 1804
Benzene	12	250	280		5	107	70-130	05/08/2015 1804
tert-Butyl formate (TBF)	ND	1300	100	N	5	8.2	70-130	05/08/2015 1804
1,2-Dichloroethane	ND	250	260		5	106	70-130	05/08/2015 1804
Diisopropyl ether (IPE)	ND	250	260		5	103	70-130	05/08/2015 1804
3,3-Dimethyl-1-butanol	ND	5000	4100		5	82	70-130	05/08/2015 1804
Ethanol	ND	25000	15000	N	5	62	70-130	05/08/2015 1804
Ethylbenzene	94	250	360		5	105	70-130	05/08/2015 1804
Ethyl-tert-butyl ether (ETBE)	ND	250	250		5	102	70-130	05/08/2015 1804
Methyl tertiary butyl ether (MTBE)	ND	250	250		5	100	70-130	05/08/2015 1804
Naphthalene	24	250	230		5	83	70-130	05/08/2015 1804
tert-butyl alcohol (TBA)	ND	5000	4500		5	89	70-130	05/08/2015 1804
Toluene	260	250	530		5	107	70-130	05/08/2015 1804
Xylenes (total)	510	500	1000		5	107	70-130	05/08/2015 1804

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		97	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

Volatile Organic Compounds by GC/MS - MSD

Sample ID: QD30034-047MD
Batch: 74368
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	48	5000	4000		5	80	3.6	70-130	20	05/08/2015 1826
tert-Amyl methyl ether (TAME)	ND	250	260		5	105	15	70-130	20	05/08/2015 1826
Benzene	12	250	320		5	122	12	70-130	20	05/08/2015 1826
tert-Butyl formate (TBF)	ND	1300	95	N	5	7.6	6.9	70-130	20	05/08/2015 1826
1,2-Dichloroethane	ND	250	300		5	121	14	70-130	20	05/08/2015 1826
Diisopropyl ether (IPE)	ND	250	290		5	115	11	70-130	20	05/08/2015 1826
3,3-Dimethyl-1-butanol	ND	5000	4300		5	85	3.8	70-130	20	05/08/2015 1826
Ethanol	ND	25000	19000		5	75	20	70-130	20	05/08/2015 1826
Ethylbenzene	94	250	390		5	117	8.0	70-130	20	05/08/2015 1826
Ethyl-tert-butyl ether (ETBE)	ND	250	280		5	113	10	70-130	20	05/08/2015 1826
Methyl tertiary butyl ether (MTBE)	ND	250	280		5	112	11	70-130	20	05/08/2015 1826
Naphthalene	24	250	230		5	83	0.35	70-130	20	05/08/2015 1826
tert-butyl alcohol (TBA)	ND	5000	4800		5	97	8.0	70-130	20	05/08/2015 1826
Toluene	260	250	570		5	121	6.5	70-130	20	05/08/2015 1826
Xylenes (total)	510	500	1100		5	119	5.7	70-130	20	05/08/2015 1826

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		96	70-130
Toluene-d8		98	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

EDB & DBCP by Microextraction - MB

Sample ID: QQ73891-001
Batch: 73891
Analytical Method: 8011

Matrix: Aqueous
Prep Method: 8011
Prep Date: 05/03/2015 1355

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.0050	ug/L	05/05/2015 2215

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		95	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

EDB & DBCP by Microextraction - LCS

Sample ID: QQ73891-002
Batch: 73891
Analytical Method: 8011

Matrix: Aqueous
Prep Method: 8011
Prep Date: 05/03/2015 1355

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.31		1	126	60-140	05/05/2015 2226

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		111	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

EDB & DBCP by Microextraction - MB

Sample ID: QQ73892-001
Batch: 73892
Analytical Method: 8011

Matrix: Aqueous
Prep Method: 8011
Prep Date: 05/03/2015 1355

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.0050	ug/L	05/07/2015 0837

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		106	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

EDB & DBCP by Microextraction - LCS

Sample ID: QQ73892-002
Batch: 73892
Analytical Method: 8011

Matrix: Aqueous
Prep Method: 8011
Prep Date: 05/03/2015 1355

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.31		1	125	60-140	05/06/2015 0243

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		111	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

EDB & DBCP by Microextraction - MS

Sample ID: QD30034-010MS
Batch: 73892
Analytical Method: 8011

Matrix: Aqueous
Prep Method: 8011
Prep Date: 05/03/2015 1355

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	360	0.25	300	N	500	-26500	60-140	05/07/2015 1101

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane	N	0.00	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

EDB & DBCP by Microextraction - MSD

Sample ID: QD30034-010MD
Batch: 73892
Analytical Method: 8011

Matrix: Aqueous
Prep Method: 8011
Prep Date: 05/03/2015 1355

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,2-Dibromoethane (EDB)	360	0.24	320	N	500	-18700	6.6	60-140	20	05/07/2015 1112

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane	N	0.00	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

EDB & DBCP by Microextraction - MB

Sample ID: QQ74145-001
Batch: 74145
Analytical Method: 8011

Matrix: Aqueous
Prep Method: 8011
Prep Date: 05/06/2015 1153

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.0050	ug/L	05/07/2015 1224

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		90	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

EDB & DBCP by Microextraction - LCS

Sample ID: QQ74145-002
Batch: 74145
Analytical Method: 8011
Matrix: Aqueous
Prep Method: 8011
Prep Date: 05/06/2015 1153

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.26		1	105	60-140	05/07/2015 1235

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		97	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

EDB & DBCP by Microextraction - MS

Sample ID: QD30034-024MS
Batch: 74145
Analytical Method: 8011

Matrix: Aqueous
Prep Method: 8011
Prep Date: 05/06/2015 1153

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	0.25	0.27		1	109	60-140	05/07/2015 1455

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		96	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

EDB & DBCP by Microextraction - MSD

Sample ID: QD30034-024MD
Batch: 74145
Analytical Method: 8011

Matrix: Aqueous
Prep Method: 8011
Prep Date: 05/06/2015 1153

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	0.24	0.34	+	1	140	23	60-140	20	05/07/2015 1505

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		129	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

EDB & DBCP by Microextraction - MB

Sample ID: QQ74146-001
Batch: 74146
Analytical Method: 8011

Matrix: Aqueous
Prep Method: 8011
Prep Date: 05/06/2015 1202

Parameter	Result	Q	Dil	PQL	MDL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.020	0.0050	ug/L	05/07/2015 1759

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		96	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

EDB & DBCP by Microextraction - LCS

Sample ID: QQ74146-002
Batch: 74146
Analytical Method: 8011
Matrix: Aqueous
Prep Method: 8011
Prep Date: 05/06/2015 1202

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.27		1	108	60-140	05/07/2015 1809

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		97	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

EDB & DBCP by Microextraction - MS

Sample ID: QD30034-051MS
Batch: 74146
Analytical Method: 8011

Matrix: Aqueous
Prep Method: 8011
Prep Date: 05/06/2015 1202

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	1.4	0.25	1.6		5	87	60-140	05/08/2015 1343

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		108	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

EDB & DBCP by Microextraction - MSD

Sample ID: QD30034-051MD
Batch: 74146
Analytical Method: 8011

Matrix: Aqueous
Prep Method: 8011
Prep Date: 05/06/2015 1202

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,2-Dibromoethane (EDB)	1.4	0.25	1.6		5	62	4.0	60-140	20	05/08/2015 1406

Surrogate	Q	% Rec	Acceptance Limit
1,1,1,2-Tetrachloroethane		119	57-137

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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

SHEALY ENVIRONMENTAL SERVICES, INC.

Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

Number 48208

Client	BLE
Address	6004 Powders Court
City / State / Zip Code	Greenville / SC / 29615
Project Name	George Southern's Grocery
Project No.	J14-7051-06
P.O. No.	
Report to Contact	Trevor Bardon
Sampler's Signature	X
Printed Name	Reid A. Doherty ; Dan R. Martz
Telephone No. / E-mail	trevor@blecorp.com
Analysis (Attach list if more space is needed)	
Quote No.	
Page	1 of 6
	QD30034

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	Sediment O-Composite	Aqueous	Solid	Non-Aqueous	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnOAc/NaOH		8260B (BTEX + MTBE + Naphthalene)	8011 (EDB)								Remarks / Cooler I.D.
08650-MW01	4/29/15	1005	G	X						6				X	X								
08650-MW02R		0820																					
08650-MW02RDUP		0831																					
08650-MW03		0900																					
08650-MW03R		0920																					
08650-MW04	4/28/15	1310																					
08650-MW06R		1535																					
08650-MW07		1550																					
08650-MW07 DUP		1551																					
08650-MW09	4/29/15	0800																					

Turn Around Time Required (Prior lab approval required for expedited TAT.) ☑ Standard | Rush (Specify)

Sample Disposal ☐ Return to Client ☑ Disposal by Lab

Possible Hazard Identification ☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by	4-30-15	1051	1. Received by	4-30-15	1051
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by	4-30-15	1538	4. Laboratory received by	4/30/15	1538

Note: All Samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on ice (Circle) (Yes) No Ice Pack Receipt Temp. 2 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s), PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 08-01-2014

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

Number 48209

Client	BLE
Address	6004 Panders Court
City / State / Zip Code	Greenville / SC / 29615
Project Name	George Southern's Grocery
Project No.	J14-7051-06
P.O. No.	
Report to Contact	Trevor Benton
Sampler's Signature	X
Printed Name	David A. Doherty; Don R. Metz.
Telephone No. / E-mail	trevor@blecorp.com
Quote No.	
Page	2 of 6
Analysis (Attach list if more space is needed)	

QD30034

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	Grab/Composite	Matrix: Aqueous	Matrix: Solid	Matrix: Non-Aqueous	No of Containers by Preservative Type: Unpres.	H2SO4	HNO3	HCl	NaOH	NaOH/ZnAc	Other	BTEX+MtBE+Naph+1,2-DCA+8-oxy	8011 (EDB)	Remarks / Cooler I.D.
08650-MW09 Dup	4/24/15	0800	G	X						6				X	X	
08650-MW10R	4/23/15	1235														
08650-MW11		1638														
08650-MW12		1410														
08650-MW13R		1538														
08650-MW14R		1135														
08650-MW15R		1503														
08650-MW16		1030														
08650-MW18R		1124														
08650-MW19		1154														

Turn Around Time Required (Prior lab approval required for expedited TAT.) ☑ Standard ☐ Rush (Specify)

Sample Disposal ☐ Return to Client ☑ Disposal by Lab

Possible Hazard Identification ☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by	4-30-15	1051	1. Received by	4-30-15	1051
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by	4-30-15	1535	4. Laboratory received by	4/30/15	1538

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on ice (Circle) Yes No Ice Pack
Receipt Temp. 2.0 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 08-01-2014

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Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

Chain of Custody Record

Number 48210

Client	BLE
Address	6004 Ponders Court
City	Greenville
State	SC
Zip Code	29615
Project Name	George Southers Grocery
Project No.	J14-7051-06
P.O. No.	
Report to Contact	Trevor Boston
Sampler's Signature	X
Printed Name	Reid A. Doherty; Don R. Matz.
Telephone No. / E-mail	trevor@blecorp.com
Quote No.	
Analysis (Attach list if more space is needed)	
Page	3 of 6

QD30034

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	G-Grab C-Composite	Matrix: Aqueous	Solid	Non-Aqueous	No of Containers by Preservative Type: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	8260B (BTEX MNN + 1,2-DCA + 3-OXY)	8011 (EDB)	Remarks / Cooler I.D.
08650-MW20	4/28/15	1226	G	X						6			X	X	
08650-MW21		0850													
08650-MW22		0951													
08650-MW23		0950													
08650-MW24		1325													
08650-MW25		1438													
08650-MW26		1150													
08650-MW27		1510													
08650-MW28		1455													
08650-MW29		1430													

Turn Around Time Required (Prior lab approval required for expedited TAT.)
☑ Standard ☐ Rush (Specify)

Sample Disposal
☐ Return to Client ☑ Disposal by Lab

Possible Hazard Identification
☑ Non Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by	4-30-15	1051	1. Received by	4-30-15	1051
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by	4-30-15	1538	4. Laboratory received by	4/30/15	1538

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on ice (Circle) Yes No Ice Pack Receipt Temp. 2.0 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 08-01-2014

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

Number 48211

Client: BLE
Report to Contact: Trevor Benton
Telephone No. / E-mail: trevor@blecorp.com
Quote No.:
Address: 6004 Panders Court
Sampler's Signature: X
Analysis (Attach list if more space is needed)
Page 4 of 6
City: Greenville | State: SC | Zip Code: 29615
Printed Name: Reid A. Doherty; Dan R. Metz
Project Name: George Southern's Grocery
Project No.: J14-7051-06
P.O. No.:
QD30034

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	G=Grab C=Composite	Matrix: Aqueous	Solid	Air/Vapor	No of Containers by Preservative Type: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: Alk+Cl+SO4+NO3+NO2+PO4 (EPA 300.0-21)	Alk (EPA 310.1)	Remarks / Cooler I.D.
08650-MW30	4/28/15	1041	G	X						6			X	X	
08650-MW31		1054													
08650-MW33		1308													
08650-MW34		1321													
08650-MW35		1005													
08650-MW36		1050													
08650-MW37		0915													
08650-MW38		0820													
08650-MW39		0835													
08650-MW40		1253													

Turn Around Time Required (Prior lab approval required for expedited TAT.): ☑ Standard ☐ Rush (Specify)
Sample Disposal: ☐ Return to Client ☑ Disposal by Lab
Possible Hazard Identification: ☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown
QC Requirements (Specify)

		Date	Time			Date	Time
1. Relinquished by		4-30-15	1051	1. Received by		4-30-15	1051
2. Relinquished by				2. Received by			
3. Relinquished by				3. Received by			
4. Relinquished by		4-30-15	1538	4. Laboratory received by		4/30/15	1538

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on ice (Circle) Yes No Ice Pack
Receipt Temp. 3.0 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 08-01-2014

SHEALY ENVIRONMENTAL SERVICES, INC.

SHEALY ENVIRONMENTAL SERVICES, INC.

Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

Number 48212

Client	BLE
Address	6004 Ponders Court
City	Greenville
State	SC
Zip Code	29615
Project Name	George Southern Grocery
Project No.	J14-7051-06
P.O. No.	
Report to Contact	Trevor Benton
Sampler's Signature	X
Printed Name	Reid A. Doherty; Don R. Matz
Telephone No. / E-mail	Trevor@blacorp.com
Analysis (Attach list if more space is needed)	
Quote No.	
Page	5 of 16
	QD30034

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	G=Grab C=Composite	Matrix: Aqueous	Solid	Non-aqueous	No. of Containers by Preservative Type: Unpres.	H2SO4	HNO3	HCl	NaOH	NaS2O3		BTEX + MTBE + Naphthalene (8260B)	8011 (EDB)	Remarks / Cooler I.D.
08650-MW41	4/27/15	1610	G	X						6				X	X	
08650-MW42	↓	1559	↓	↓						↓				↓	↓	
08650-MW43	↓	1625	↓	↓						↓				↓	↓	
08650-PMW01	4/29/15	0846	↓	↓						↓				↓	↓	
08650-DW01	↓	0921	↓	↓						↓				↓	↓	
08650-DW02	↓	1052	↓	↓						↓				↓	↓	
08650-DW03	4/28/15	1614	↓	↓						↓				↓	↓	
08650-DW04	4/28/15	1414	↓	↓						↓				↓	↓	
08650-DW05	4/29/15	1011	↓	↓						↓				↓	↓	
08650-DW06	4/29/15	1122	↓	↓						↓				↓	↓	

Turn Around Time Required (Prior lab approval required for expedited TAT.)
☑ Standard ☐ Rush (Specify)

Sample Disposal
☐ Return to Client ☑ Disposal by Lab

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by	4-30-15	1051	1. Received by	4-30-15	1051
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by	4-30-15	1538	4. Laboratory received by	4/30/15	1538

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on ice (Circle) Yes No Ice Pack Receipt Temp. 2.0 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 08-01-2014

SHEALY ENVIRONMENTAL SERVICES, INC.

SHEALY ENVIRONMENTAL SERVICES, INC.

SHEALY **Chain of Custody Record**

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

Number 48213

Client	BLE
Address	6004 Ponders Court
City	Greenville
State	SC
Zip Code	29615
Project Name	George Southers Grocery
Project No.	J14-7051-06
P.O. No.	
Report to Contact	Trevor Benton
Sampler's Signature	X
Printed Name	Reid A. Doherty; Don R. Mintz
Telephone No. / E-mail	trevor@blecorp.com
Analysis (Attach list if more space is needed)	
Quote No.	
Page	6 of 6

QD30034

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	# of Containers	Matrix: Aqueous	Solid	Wipe/Sediment	No of Containers by Preservative Type: Unpres.	H2SO4	HNO3	HCl	NaOH	NaS2O3		8260B (BTEX+MTBE+N+Naphthalene)	8011 (EDB)							Remarks / Cooler I.D.
08650-RW01	4/29/15	0950	6	X						6				X	X							
08650-RW02	4/29/15	1130																				
Field Blank 01	4/27/15	1530																				
Field Blank 02	4/28/15	0800																				
Field Blank 03	4/29/15	0730																				
Trip Blank 01	4/27/15	—																				
Trip Blank 02	4/27/15	—																				

Turn Around Time Required (Prior lab approval required for expedited TAT.) ☑ Standard ☐ Rush (Specify)

Sample Disposal ☐ Return to Client ☑ Disposal by Lab

Possible Hazard Identification ☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished by	4-30-15	1051	1. Received by	4-30-15	1051
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by	4-30-15	1538	4. Laboratory received by	4/30/15	1538

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on ice (Circle) Yes No Ice Pack Receipt Temp. 2.0 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 08-01-2014

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
Document Number: F-AD-016
Revision Number: 17

Page 1 of 1
Replaces Date: 11/07/14
Effective Date: 04/30/15

Sample Receipt Checklist (SRC)

Client: BLE Cooler Inspected by/date: mcm /04/30/15 Lot #: QD30034

Means of receipt: ☑ SESI ☐ Client ☐ UPS ☐ FedEx ☐ Airborne Exp ☐ Other			
Yes ☐	No ☑		1. Were custody seals present on the cooler?
Yes ☐	No ☐	NA ☑	2. If custody seals were present, were they intact and unbroken?

Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt:
/2.0/2.0 °C /2.0/2.0 °C / / °C / / °C
Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 5 IR Gun Correction Factor: 0.0°C
Method of coolant: ☑ Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Yes ☐	No ☐	NA ☑	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? PM notified by SRC, phone, note (circle one), other:_____. (For coolers received via commercial courier, PMs are to be notified immediately.)
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☐	No ☐	NA ☑	5a Were samples relinquished by client to commercial courier?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test?
mcm 1130/15 Yes ☑	No ☑		13. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		14. Was adequate sample volume available?
Yes ☐	No ☑		15. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		16. Were any samples containers missing?
Yes ☐	No ☑		17. Were there any excess samples not listed on COC?
Yes ☐	No ☑	NA ☐	18. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes ☐	No ☐	NA ☑	19. Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes ☐	No ☐	NA ☑	20. Were all cyanide and/or sulfide samples received at a pH >12?
Yes ☐	No ☐	NA ☑	21. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	22. Were collection temperatures documented on the COC for NC samples?
Yes ☐	No ☐	NA ☑	23. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc…) correctly transcribed from the COC into the comment section in LIMS?
Yes ☐	No ☑		24. Was the quote number used taken from the container label?

Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)

Sample(s) _____ were received incorrectly preserved and were adjusted accordingly in sample receiving with _____ (H_2SO_4,HNO_3,HCl,NaOH) using SR # _____.

Sample(s) _____ were received with bubbles >6 mm in diameter.

Sample(s) _____ were received with TRC >0.2 mg/L (If #21 is No)

SC Drinking Water Project Sample(s) pH verified to be > 2 by _____ Date: _____
Sample(s) _____ were not received at a pH of <2 and were adjusted accordingly using SR# _____

Sample labels applied by: mcm Verified by: _____ Date: 4/30/15

Comments:
Sample 041 was received w/ one broken vial

APPENDIX D

CONTRACTOR CHECKLIST

Contractor Checklist

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

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

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

Explanation for missing and incomplete information?

Project Verifier (signature) _____

(print name) Trevor J. Benton, P.G.

Date 06/05/2015

D H E C

PROMOTE PROTECT PROSPER

Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

UST DOCKETING 34 Dec

MR GEORGE E SOUTHER
280 GOODJOIN ROAD
CAMPOBELLO SC 29322

JUL 07 2015

Re: **Corrective Action Options**
George Souther's Grocery (former), 280 Goodjoin Road, Campobello, SC
UST Permit #08650
Release reported December 31, 1991
Groundwater Sampling Report received June 25, 2013
Spartanburg County

Dear Mr. Souther:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the referenced report submitted by Bunnell-Lammons Engineering, Inc. on your behalf. The report indicates that active corrective action is necessary at the site to mitigate petroleum impact 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 the petroleum chemicals of concern (CoC) concentrations to site-specific target levels (SSTLs) determined by the UST Division.

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 December 31, 1991, you may choose one of two options as to how to proceed with this requirement: state lead or owner/operator lead.

State Lead Option:

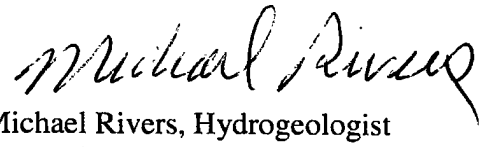
- If you choose the state lead option, the UST Division will procure a certified site rehabilitation contractor to perform corrective action on your behalf. The Agency will enter into an enforceable contract with the awarded contractor. As long as you do not interfere with or prohibit the work at your 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 or Right-of-Entry 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 UST Division will prepare a technical specification package and provide you copies to send to contractors of your choice. In addition, the UST Division 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 UST Division 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 UST Division'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 #08650**. If you have any questions, please contact me by telephone at (803) 898-0671 or by e-mail to RiversMS@dhec.sc.gov.

Sincerely,



Michael Rivers, Hydrogeologist
Corrective Action Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Permission/Right-of-Entry forms
Active Corrective Action Options form

cc: Mr. Trevor J. Benton, P.G., Bunnell-Lammons Engineering, Inc., 6004 Ponders Court, Greenville, SC 29615
Technical file (w/out enc.)

MR/ACAOPTIONS06.30.15

State Lead Option

PERMISSION FORM

UNDERGROUND STORAGE TANK AND PROPERTY OWNER

UST Permit #08650

If you are both the owner of the former or existing underground storage tanks for the release reported on December 31, 1991 and the current property owner, please complete this form.

I, _____, certify that I am the identified legal owner of the abandoned underground storage tanks for the release reported on December 31, 1991 and property 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, and authorize the Agency, or a contractor selected by the Agency, to enter this property at reasonable times only to accomplish these site rehabilitation tasks. 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 Division of Underground Storage Tank Management in writing.

Name of Facility _____ Phone # _____

Street Address of Facility _____

Town, City, District, Suburb _____

Name of nearest intersecting street, road, highway, alley _____

_____ Is this facility within the city limits? (yes or no) _____

Does a public water or sewer utility service this facility? (yes or no) _____, if no, please provide the name and phone number of a person that we can contact that can assist in the location of private water and septic tank lines _____, phone number _____

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 Agency's contractor arrives at the site.

NAME of UST/property owner (Please Print):_____

Phone Number (home)_____ (work)_____

Signature of UST/property Owner:_____

Witness:_____

Date:_____ Month _____ Day_____ Year

State Lead Option

PERMISSION FORM

UNDERGROUND STORAGE TANK OWNER

UST Permit #08650

If you are the owner of the former or existing underground storage tanks for the release reported on December 31, 1991 or are designated as their authorized representative, but do not own the property, please complete this form.

I, _____ certify that I am the legal owner of the former underground storage tanks located at the facility identified below and for the release reported on December 31, 1991 or serve as the authorized representative for the UST owner. I grant permission to the South Carolina Department of Health and Environmental Control (Agency) to secure on my behalf services of a contractor to conduct assessment and corrective action activities, as required. The contractor will be designated as my contractor for only the required environmental site rehabilitation activities. Compensation to the contractor will be from the SUPERB Account and I will have no obligation to pay the contractor. I understand that the Agency or its contractor will be responsible for obtaining right-of-entry from the property owner and 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 Division of Underground Storage Tank Management in writing.

Name of Facility _____ Phone # _____

Street Address of Facility _____

Town, City, District, Suburb _____

Name of nearest intersecting street, road, highway, alley _____

_____ Is this facility within the city limits? (yes or no) _____

Does a public water or sewer utility service this facility? (yes or no) _____, if no, please provide the name and phone number of a person that we can contact that can assist in the location of private water and septic tank lines _____, phone number _____

NAME of UST owner (Please Print):_____

Phone Number (home)_____ (work)_____

Signature of UST Owner:_____

Witness:_____

Date:_____ Month _____ Day_____ Year

State Lead Option

RIGHT-OF-ENTRY FORM

PROPERTY OWNER

UST Permit #08650

If you are the Property Owner or are the authorized representative for that person, but did not own the former or existing underground storage tanks at the time the release was reported, please complete this form.

I, _____, certify that I am the legal owner of the property identified below or serve as the authorized representative for the property owner. I authorize the South Carolina Department of Health and Environmental Control (Agency), or a contractor selected by the Agency, to enter this property at reasonable times only to conduct assessment and corrective action activities, as required. The contractor will be designated as the contractor for the UST owner or operator for only the required environmental site rehabilitation activities. Compensation to the contractor will be from the SUPERB Account and I will have no obligation to pay the contractor. I understand that the Agency or its contractor will notify me of all activities that are necessary prior to their initiation and will promptly provide to me a summary of the data upon request.

Name of Facility _____ Phone # _____

Street Address of Facility _____

Town, City, District, Suburb _____

Name of nearest intersecting street, road, highway, alley _____

_____ Is this facility within the city limits? (yes or no) _____

Does a public water or sewer utility service this facility? (yes or no) _____, if no, please provide the name and phone number of a person that we can contact that can assist in the location of private water and septic tank lines _____, phone number _____

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 Property owner (Please Print):_____

Phone Number (home)_____ (work)_____

Current Mailing Address:_____

Signature of Property Owner:_____

Witness:_____

Date:_____ Month _____ Day_____ Year

Owner/Operator Lead Option

ACTIVE CORRECTIVE ACTION OPTIONS FORM

UST Permit #08650

I, _____, certify that I am the legal owner on record for the underground storage tanks at the facility identified below for the release reported on December 31, 1991 or serve as the authorized representative for the owner. I wish to secure price quotations for corrective action activities as required by the South Carolina Department of Health and Environmental Control (Agency), and to select my own corrective action contractor after price quotation results are received. I understand that the Agency will also advertise for price quotations in the South Carolina Business Opportunities and provide the results to me. **I understand compensation to the contractor will be from the SUPERB Account, but I may have the obligation to pay the contractor for any costs not approved by the Agency. I understand that if the contractor I select does not or cannot complete the required activities, I will be required to find another certified contractor to complete the required activities for the remainder of the existing financial approval amount and that no additional funding from the SUPERB Account may be allowed. I also understand that the Agency will pursue enforcement actions against me if the contractor I select does not make satisfactory progress towards achieving established corrective actions goals.**

NAME of UST owner or authorized representative (Please Print):_____

Phone Number (home)_____ (work)_____

Signature of UST Owner:_____

Date:_____

Witness:_____

Date:_____

Owner/Operator Lead Option

UST DOCKETING 354d

UST mkr JUL 16 2015 PROGRAM

ACTIVE CORRECTIVE ACTION OPTIONS FORM

UST Permit #08650

I, George E. Souther, certify that I am the legal owner on record for the underground storage tanks at the facility identified below for the release reported on December 31, 1991 or serve as the authorized representative for the owner. I wish to secure price quotations for corrective action activities as required by the South Carolina Department of Health and Environmental Control (Agency), and to select my own corrective action contractor after price quotation results are received. I understand that the Agency will also advertise for price quotations in the South Carolina Business Opportunities and provide the results to me. **I understand compensation to the contractor will be from the SUPERB Account, but I may have the obligation to pay the contractor for any costs not approved by the Agency. I understand that if the contractor I select does not or cannot complete the required activities, I will be required to find another certified contractor to complete the required activities for the remainder of the existing financial approval amount and that no additional funding from the SUPERB Account may be allowed. I also understand that the Agency will pursue enforcement actions against me if the contractor I select does not make satisfactory progress towards achieving established corrective actions goals.**

NAME of UST owner or authorized representative (Please Print): George E. Souther

Phone Number (home) (864) 895-3253 (work) (Cell) 864 449 3599

Signature of UST Owner: George E. Souther

Date: July 13, 2015

Witness: Carolyn Souther

Date: July 13, 2015

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

MS BECKY ARMS
295 GOODJOIN RD
CAMPOBELLO SC 29322

JAN 28 2008

Re: **Analytical Report Review**
George Souther's Grocery, 280 Goodjoin Rd., Campobello, SC
UST Permit # 08650; Release reported December 31, 1991
Analytical Report received January 9, 2008
Spartanburg County

Dear Ms. Arms:

On December 17th and 18th, 2007, a comprehensive sampling event was conducted at the George Souther's Grocery and surrounding properties. Monitoring wells previously installed on your property were sampled. Please find enclosed a summary table of the concentrations of chemicals of concern and an area map. The next scheduled activity at the site is an aggressive fluid vapor recovery (AFVR) event to remove free-phase product from MW-5 and RW-1.

I will be the point of contact for this project until a new project manager is hired. Please feel free to contact me at (803) 896-6585 if you have any questions or need additional information.

Sincerely,

Christopher S. Doll, P.G., Manager
Northeastern SC Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management

enc: Map and Data Table

cc: Technical File (w/out enc)

SEB/011408

UST PROGRAM
DOCKETING # 4

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

MR JAMES B WILLIAMS JR
885 GOODJOIN RD
CAMPOBELLO SC 29322

JAN 28 2008

Re: **Analytical Report Review**
George Souther's Grocery, 280 Goodjoin Rd., Campobello, SC
UST Permit # 08650; Release reported December 31, 1991
Analytical Report received January 9, 2008
Spartanburg County

Dear Mr. Williams:

On December 17th and 18th, 2007, a comprehensive sampling event was conducted at the George Souther's Grocery and surrounding properties. Monitoring wells previously installed on your property were sampled. Please find enclosed a summary table of the concentrations of chemicals of concern and an area map. The next scheduled activity at the site is an aggressive fluid vapor recovery (AFVR) event to remove free-phase product from MW-5 and RW-1.

I will be the point of contact for this project until a new project manager is hired. Please feel free to contact me at (803) 896-6585 if you have any questions or need additional information.

Sincerely,

Christopher S. Doll, P.G., Manager
Northeastern SC Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management

enc: Map and Data Table

cc: Technical File (w/out enc)

SEB/011408

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

MS EARLENE P LANCE
207 LAKEWOOD DR
KANNAPOLIS NC 28081

JAN 28 2008

Re: **Analytical Report Review**
George Souther's Grocery, 280 Goodjoin Rd., Campobello, SC
UST Permit # 08650; Release reported December 31, 1991
Analytical Report received January 9, 2008
Spartanburg County

Dear Ms. Lance:

On December 17th and 18th, 2007, a comprehensive sampling event was conducted at the George Souther's Grocery and surrounding properties. Monitoring wells previously installed on your property were sampled. Please find enclosed a summary table of the concentrations of chemicals of concern and an area map. The next scheduled activity at the site is an aggressive fluid vapor recovery (AFVR) event to remove free-phase product from MW-5 and RW-1.

I will be the point of contact for this project until a new project manager is hired. Please feel free to contact me at (803) 896-6585 if you have any questions or need additional information.

Sincerely,

Christopher S. Doll, P.G., Manager
Northeastern SC Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management

enc: Map and Data Table

cc: Technical File (w/out enc)

SEB/011408

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

MARVIN & ALMA GLEN
1250 MT LEBANON RD
CAMPOBELLO SC 29322

JAN 28 2008

Re: **Analytical Report Review**
George Souther's Grocery, 280 Goodjoin Rd., Campobello, SC
UST Permit # 08650; Release reported December 31, 1991
Analytical Report received January 9, 2008
Spartanburg County

Dear Mr. and Mrs. Glen:

On December 17th and 18th, 2007, a comprehensive sampling event was conducted at the George Souther's Grocery and surrounding properties. Monitoring wells previously installed on your property were sampled. Please find enclosed a summary table of the concentrations of chemicals of concern and an area map. The next scheduled activity at the site is an aggressive fluid vapor recovery (AFVR) event to remove free-phase product from MW-5 and RW-1.

I will be the point of contact for this project until a new project manager is hired. Please feel free to contact me at (803) 896-6585 if you have any questions or need additional information.

Sincerely,

Christopher S. Doll, P.G., Manager
Northeastern SC Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management

enc: Map and Data Table

cc: Technical File (w/out enc)

SEB/011408

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

MS ANNIE L FRADY WOLFE
275 GOODJOIN RD
CAMPOBELLO SC 29322

JAN 28 2008

Re: **Analytical Report Review**
George Souther's Grocery, 280 Goodjoin Rd., Campobello, SC
UST Permit # 08650; Release reported December 31, 1991
Analytical Report received January 9, 2008
Spartanburg County

Dear Ms. Wolfe:

On December 17th and 18th, 2007, a comprehensive sampling event was conducted at the George Souther's Grocery and surrounding properties. Monitoring wells previously installed on your property were sampled. Please find enclosed a summary table of the concentrations of chemicals of concern and an area map. The next scheduled activity at the site is an aggressive fluid vapor recovery (AFVR) event to remove free-phase product from MW-5 and RW-1.

I will be the point of contact for this project until a new project manager is hired. Please feel free to contact me at (803) 896-6585 if you have any questions or need additional information.

Sincerely,

Christopher S. Doll, P.G., Manager
Northeastern SC Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management

enc: Map and Data Table

cc: Technical File (w/out enc)

SEB/011408

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

MR S BRUCE JAMES
PO BOX 219
LYMAN SC 29365

JAN 28 2008

Re: **Analytical Report Review**
George Souther's Grocery, 280 Goodjoin Rd., Campobello, SC
UST Permit # 08650; Release reported December 31, 1991
Analytical Report received January 9, 2008
Spartanburg County

Dear Mr. James:

On December 17th and 18th, 2007, a comprehensive sampling event was conducted at the George Souther's Grocery and surrounding properties. Monitoring wells previously installed on your property were sampled. Please find enclosed a summary table of the concentrations of chemicals of concern and an area map. The next scheduled activity at the site is an aggressive fluid vapor recovery (AFVR) event to remove free-phase product from MW-5 and RW-1.

I will be the point of contact for this project until a new project manager is hired. Please feel free to contact me at (803) 896-6585 if you have any questions or need additional information.

Sincerely,

Christopher S. Doll, P.G., Manager
Northeastern SC Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management

enc: Map and Data Table

cc: Technical File (w/out enc)

SEB/011408

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

MS JESSIE C WRIGHT
137 TURNER BARTON RD
LANDRUM SC 29356

JAN 28 2008

Re: **Analytical Report Review**
George Souther's Grocery, 280 Goodjoin Rd., Campobello, SC
UST Permit # 08650; Release reported December 31, 1991
Analytical Report received January 9, 2008
Spartanburg County

Dear Ms. Wright:
On December 17th and 18th, 2007, a comprehensive sampling event was conducted at the George Souther's Grocery and surrounding properties. Monitoring wells previously installed on your property were sampled. Please find enclosed a summary table of the concentrations of chemicals of concern and an area map. The next scheduled activity at the site is an aggressive fluid vapor recovery (AFVR) event to remove free-phase product from MW-5 and RW-1.

I will be the point of contact for this project until a new project manager is hired. Please feel free to contact me at (803) 896-6585 if you have any questions or need additional information.

Sincerely,

Christopher S. Doll, P.G., Manager
Northeastern SC Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management

enc: Map and Data Table

cc: Technical File (w/out enc)

SEB/011408

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

MS CAROLYN SOUTHER
195 GOODJOIN RD
CAMPOBELLO SC 29322

JAN 28 2008

Re: **Analytical Report Review**
George Souther's Grocery, 280 Goodjoin Rd., Campobello, SC
UST Permit # 08650; Release reported December 31, 1991
Analytical Report received January 9, 2008
Spartanburg County

Dear Ms. Souther:

On December 17th and 18th, 2007, a comprehensive sampling event was conducted at the George Souther's Grocery and surrounding properties. Monitoring wells previously installed on your property were sampled. Please find enclosed a summary table of the concentrations of chemicals of concern and an area map. The next scheduled activity at the site is an aggressive fluid vapor recovery (AFVR) event to remove free-phase product from MW-5 and RW-1.

I will be the point of contact for this project until a new project manager is hired. Please feel free to contact me at (803) 896-6585 if you have any questions or need additional information.

Sincerely,

Christopher S. Doll, P.G., Manager
Northeastern SC Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management

enc: Map and Data Table

cc: Technical File (w/out enc)

SEB/011408

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

MR RONNIE JOE SITTON
1310 MT LEBANON RD
CAMPOBELLO SC 29322

JAN 28 2008

Re: **Analytical Report Review**
George Souther's Grocery, 280 Goodjoin Rd., Campobello, SC
UST Permit # 08650; Release reported December 31, 1991
Analytical Report received January 9, 2008
Spartanburg County

Dear Mr. Sitton:

On December 17th and 18th, 2007, a comprehensive sampling event was conducted at the George Souther's Grocery and surrounding properties. Monitoring wells previously installed on your property were sampled. Please find enclosed a summary table of the concentrations of chemicals of concern and an area map. The next scheduled activity at the site is an aggressive fluid vapor recovery (AFVR) event to remove free-phase product from MW-5 and RW-1.

I will be the point of contact for this project until a new project manager is hired. Please feel free to contact me at (803) 896-6585 if you have any questions or need additional information.

Sincerely,

Christopher S. Doll, P.G., Manager
Northeastern SC Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management

enc: Map and Data Table

cc: Technical File (w/out enc)

SEB/011408

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

MR GEORGE SOUTHER
280 GOODJOIN RD
CAMPOBELLO SC 29322

JAN 28 2008

Re: **Analytical Report Review**
George Souther's Grocery, 280 Goodjoin Rd., Campobello, SC
UST Permit # 08650; Release reported December 31, 1991
Analytical Report received January 9, 2008
Spartanburg County

Dear Mr. Souther:

The Underground Storage Tank (UST) Program of the South Carolina Department of Health and Environmental Control has reviewed the referenced analytical report submitted on your behalf by Pace Analytical. The concentrations of chemicals of concern (CoC) in groundwater exceed risk based screening levels established by the State of South Carolina and free-phase product was detected in monitoring wells MW-5 and RW-1. A copy of the results is enclosed for your file.

Aggressive fluid vapor recovery (AFVR) events will be conducted to remove the free-phase product. The UST Program will continue to coordinate site rehabilitation activities on your behalf. Future monitoring reports will be forwarded to you once they have been reviewed.

I will be the point of contact for this project until a new project manager is hired. Please feel free to contact me at (803) 896-6585 if you have any questions or need additional information.

Sincerely,

Christopher S. Doll, P.G., Manager
Northeastern SC Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management

enc: Pace Analytical Report

cc: Technical File (w/out enc)

SEB/011408

Midlands
Environmental
Consultants, Inc.

February 13, 2008

Ms. Susan Block, P.G., Hydrogeologist
Northeastern SC Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

RECEIVED
FEB 13 2008
UNDERGROUND STORAGE
TANK PROGRAM

Subject: Aggressive Fluid Vapor Recovery Report
George Souther's Grocery
Campobello, South Carolina
SCDHEC Site ID # 08650; CA #31550
MECI Project Number 07-1511A

Dear Ms. Block,

Midlands Environmental Consultants, Inc. (MECI) is pleased to submit the attached Aggressive Fluid Vapor Recovery Report for the referenced site. This describes the aggressive fluid vapor recovery activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines.

AGGRESSIVE FLUID VAPOR RECOVERY

MECI personnel conducted an Aggressive Fluid Vapor Recovery (AFVR) event at George Souther's Grocery on February 8, 2008. The event was conducted on monitoring wells MW-29 to reduce dissolved CoC concentrations The event was conducted continuously for eight hours. Free phase petroleum product was not detected in monitoring well MW-29 prior to the AFVR event. The event was conducted by MECI personnel utilizing a MECI vacuum extraction unit.

MECI treated the off gas produced during the AFVR event using an activated carbon filter system. Calculated total petroleum hydrocarbons removed from the wells were 4.09 pounds or approximately 0.71 equivalent gallons. The average rate of removal for the hydrocarbons was calculated to be 0.51 pounds per hour. Concentrations of off gas produced during the event were recorded from 255 parts per million by volume (PPM) to 737 PPM. Measurements were obtained from vapors prior to entering off gas treatment. Vacuum readings were recorded at a range from 15.0 to 20.5 inches of mercury during the event. A complete compilation of measurements recorded is presented in attached Table 1A.

Post Office Box 854, Lexington SC 29071 • 235-B Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

UST PROGRAM
DOCKETING # 5

Differential pressures and groundwater levels were measured and recorded for selected site monitoring wells at regular intervals. This data is summarized in the attached Table 2A. Monitoring well locations are depicted on attached Figure 1.

A total of 20 gallons of liquids were removed from MW-29 during this event. Free phase petroleum product was not observed in the holding tank at the end of the event. The fluids produced were transported to Crandall Corporation of Lexington, S.C. for disposal. A disposal manifest for these fluids is attached at the end of this report.

QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assignment are consistent with those normally employed in enhanced fluid recovery events and waste management projects of this type. Contents of this report are intended for the use by MECI and the South Carolina Department of Health and Environmental Control, under mutually agreed upon terms and conditions. If other parties wish to rely on this report please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

Midlands Environmental appreciates the opportunity to offer our professional environmental related services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.

Brandon T. Guiles
Staff Biologist

William C. McClary P.G.
Senior Geologist

Attachments:

TABLE 1A
AFVR MONITORING DATA
GEORGE SOUTHER'S GROCERY
CAMPOBELLO, SOUTH CAROLINA
MECI PROJECT NUMBER 07-1511A
SCDHEC SITE ID NUMBER 08650

Extraction Well	Date	Time (hh:mm)	Differential Time (hr)	Extraction Well Head Vacuum (in. Hg)	Off Gas Measurements				
					Concentration (PPM)	Offgas Velocity Ft/Min	Flow Rate CFM	Removal Rate Lbs/Hr	Interval Removal Lbs
MW-29	02/08/08	8:30	0.50	15.0	737	****	105.00	0.93	0.46
	02/08/08	9:00	0.50	16.0	513	****	105.00	0.65	0.32
	02/08/08	9:30	0.50	17.5	442	****	105.00	0.56	0.28
	02/08/08	10:00	0.50	16.5	255	****	110.00	0.34	0.17
	02/08/08	10:30	0.50	19.0	335	****	105.00	0.42	0.21
	02/08/08	11:00	0.50	20.0	341	****	105.00	0.43	0.21
	02/08/08	11:30	0.50	20.0	354	****	105.00	0.45	0.22
	02/08/08	12:00	0.50	20.0	345	****	105.00	0.43	0.22
	02/08/08	12:30	0.50	20.0	345	****	105.00	0.43	0.22
	02/08/08	13:00	0.50	20.0	352	****	105.00	0.44	0.22
	02/08/08	13:30	0.50	19.0	356	****	105.00	0.45	0.22
	02/08/08	14:00	0.50	19.0	354	****	105.00	0.45	0.22
	02/08/08	14:30	0.50	20.5	356	****	105.00	0.45	0.22
	02/08/08	15:00	0.50	20.0	346	****	105.00	0.44	0.22
	02/08/08	15:30	0.50	20.0	346	****	105.00	0.44	0.22
	02/08/08	16:00	0.50	20.0	342	****	105.00	0.43	0.22
	02/08/08	16:30	0.50	19.0	364	****	105.00	0.46	0.23
									TOTAL 4.09

Well Data:			Pre AFVR Event			Post AFVR Event			Corrected Depth to Water Change (ft)
Well No.	Diameter (in)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	
MW-29	2"	30	***	25.78	***	***	22.47	***	-3.31

Vacuum Truck Information		Well ID	Stinger Depth
Subcontrator:	MECI	MW-29	26.00
Truck Operator:	B. Kelly		
Stack I.D. (feet)	0.33 feet		

Recovery / Disposal Information		
Hydro carbons Removed (vapor):	4.09	Pounds
Hydro carbons Removed (liquid):	0	Gallons
Total Hydrocarbons Removed:	0.71	Equivalent Gallons
Molecular Weight Utilized:	75	g / mole
Disposal Facility	Crandall Corporation	
Total Liquids Removed:	20	Gallons

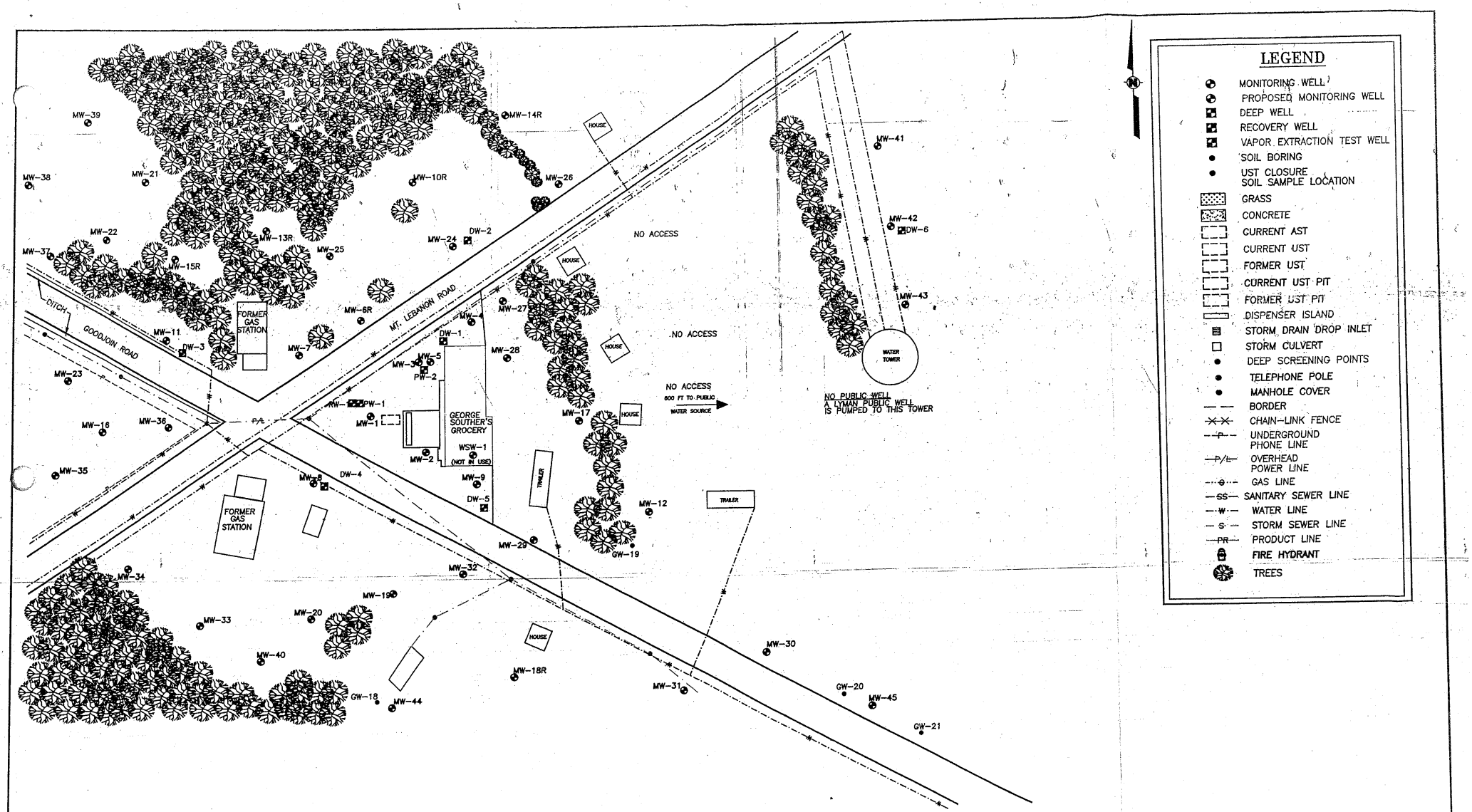
TABLE 2A
DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
GEORGE SOUTHER'S GROCERY
CAMPOBELLO, SOUTH CAROLINA
MECI PROJECT NUMBER 07-1511A
SCDHEC SITE ID NUMBER 08650

DIFFERENTIAL PRESSURE DATA

		Well Designation:		
		MW-2	**MW-32**	**DW-5**
Nearest Extraction Well:		MW-29	MW-29	MW-29
Approximate Distance:		150 ft	80 ft.	56 ft
Time	**Elapsed Time**	**Differential Pressure Readings (inches of water)**		
8:30	0.0	0	0	0
9:00	0.5	0	0	0
9:30	1.0	0	0	0
10:00	1.5	0	0	0
10:30	2.0	0	0	0
11:00	2.5	0	0	0
11:30	3.0	0	0	0
12:00	3.5	0	0	0
12:30	4.0	0	0	0
13:00	4.5	0	0	0
13:30	5.0	0	0	0
14:00	5.5	0	0	0
14:30	6.0	0	0	0
15:00	6.5	0	0	0
15:30	7.0	0	0	0
16:00	7.5	0	0	0
16:30	8.0	0	0	0
Maximum Change:		**0**	**0**	**0**

GROUNDWATER DRAWDOWN DATA

		Well Designation:		
		MW-2	**MW-32**	**DW-5**
Nearest Extraction Well:		MW-29	MW-29	MW-29
Approximate Distance:		150 ft	80 ft.	56 ft
Time	**Elapsed Time**	**Depth to Liquid (feet below of casing):**		
Prior toAFVR		16.86	26.35	24.41
12:30	4 hours	16.86	26.35	24.41
16:30	8 hours	16.86	26.35	24.41
Maximum Change:		0.00	0.00	0.00



CAD FILE: REC 05-02-015ste.dwg

CONSULTECH ENVIRONMENTAL, INC. Environmental Consulting and Engineering © 1999 Delivering innovative solutions to today's environmental concerns	DRAWN: N.C.L.	DATE: 04/28/06
	UST#: 08650	
	PROJECT: GEORGE SOUTHER'S GROCERY	
	PROJECT No.: 05-02-015	
	LOCATION: CAMPOBELLO, SOUTH CAROLINA	

FIGURE 2
SITE PLAN MAP

Crandall

C 123749

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. 18563

2. Page 1 of 1

3. Generator's Name and Mailing Address
Midlands Environmental
1144 Old Two Notch
Lexington, SC 29073

4. Generator's Phone (803) 808-2043

5. Transporter 1 Company Name
Crandall Corporation

6. US EPA ID Number
SCD981864499

A. Transporter's Phone (803) 791-4800

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
Crandall Corporation
100 Rich-Lex Drive
Lexington, SC 29072

10. US EPA ID Number
SCD981864499

C. Facility's Phone (803) 791-4800

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non - Hazardous Waste, Waste Water	01	TT	2400	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
Lowes Grocery B(00720)20gal. Friendly marks A(11693)50gal. Bubbse bait + food(08823)140gal. Austin Moving + storage(04038)80gal. Scoot Newberry A(10492)80gal. Hornes General(12641)150gal. Constan R13(07871)210gal. Chester School bus Shop(02159)100gal. Scoot Newberry B(10492)35gal.

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Bay Creek Villas A(08662)150gal. Bluffport patrol C(01056)20gal. United Oil 1268(06097)600gal. Shelton Food A(00877)140gal. Shelton Food B(00877)800gal. Wicks Corner mart(11369)160gal. Newberry Co Law(15591)160gal. Scoot Newberry C(10492)160gal. Pit Stop 40(07704)120gal. Hughes Well drill(00358)120gal. Newberry Co. Airport(15590)140gal. Cooper Auto Sales(18009)200gal. Pit Stop 23(07837)25gal. Food Chief 47(05419)300gal. George Southers(08650)20gal.

Service Call ID: GLB0118563
Emergency Response: Infotrac - 800-535-5053
Caller must ID Crandall as Registrant

16. 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.

Printed/Typed Name: Korey E Garnett
Signature: Korey E Garnett
Month 02 Day 11 Year 08

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Shawn DeSpain
Signature:
Month 02 Day 11 Year 08

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.

Printed/Typed Name:
Signature:
Month Day Year

GENERATOR COPY

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

FEB 29 2008

MR GEORGE SOUTHER
280 GOODJOIN RD
CAMPOBELLO SC 29322

Re: **AFVR Report Review**
George Souther's Grocery, 280 Goodjoin Rd., Campobello, SC
UST Permit # 08650; Release reported December 31, 1991
AFVR Report received February 13, 2008
Spartanburg County

Dear Mr. Souther:

On February 8, 2008, an Aggressive Fluid Vapor Recovery (AFVR) event took place at the referenced facility on MW-29. A copy of the report is enclosed. After completion of the event, no free product was detected. Additional AFVR events will be conducted on MW-5 and RW-1. Per your signed permission form, the Underground Storage Tank (UST) Program will continue to coordinate rehabilitation activities on your behalf. Future monitoring reports will be forwarded to you once they have been reviewed.

I will be the point of contact for this project until a new project manager is hired. Please feel free to contact me at (803) 896-6585 if you have any questions or need additional information.

Sincerely,

Christopher S. Doll, P.G., Manager
Northeastern SC Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management

enc: AFVR Report

cc: Technical File (w/out enc)

SEB/021908

UST PROGRAM
DOCKETING # 6 tech

Midlands
Environmental
Consultants, Inc.

February 29, 2008

RECEIVED
UNDERGROUND STORAGE TANK PROGRAM

Ms. Susan Block, P.G., Hydrogeologist
Northeastern SC Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

Subject: Aggressive Fluid Vapor Recovery Report
George Souther's Grocery
Campobello, South Carolina
SCDHEC Site ID # 08650; CA #31550
MECI Project Number 07-1511B

Dear Ms. Block,

Midlands Environmental Consultants, Inc. (MECI) is pleased to submit the attached Aggressive Fluid Vapor Recovery Report for the referenced site. This describes the aggressive fluid vapor recovery activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control (SCDHEC) guidelines.

AGGRESSIVE FLUID VAPOR RECOVERY

MECI personnel conducted an Aggressive Fluid Vapor Recovery (AFVR) event at George Souther's Grocery on February 26, 2008. The event was conducted on monitoring wells RW-1 and MW-5 to remove free phase petroleum product and reduce dissolved concentrations of chemicals of concern. The event was conducted continuously for eight hours. Free phase petroleum product was detected in RW-1 at a thickness of 0.54 feet prior to the AFVR event. Free phase petroleum product was not detected in monitoring well MW-5 prior to the AFVR event. The event was conducted by MECI personnel utilizing a MECI vacuum extraction unit. Free phase petroleum product was detected in RW-1 at a thickness of 0.29 feet immediately following the AFVR event.

MECI treated the off gas produced during the AFVR event using an activated carbon filter system. Calculated total petroleum hydrocarbons removed from the wells were 5.08 pounds or approximately 0.88 equivalent gallons. The average rate of removal for the hydrocarbons was calculated to be 0.64 pounds per hour. Concentrations of off gas produced during the event were recorded from 309 parts per million by volume (PPM) to 957 PPM. Measurements were obtained from vapors prior to entering off gas treatment. Vacuum readings were recorded at a range from 11.0 to 17.0 inches of mercury during the event. A complete compilation of measurements recorded is presented in attached Table 1B.

Post Office Box 854, Lexington SC 29071 • 235-B Dooley Road, Lexington, SC 29073
Telephone: (803) 808-2043 • fax: (803) 808-2048

Differential pressures and groundwater levels were measured and recorded for selected site monitoring wells at regular intervals. This data is summarized in the attached Table 2B. Monitoring well locations are depicted on attached Figure 1.

A total of 20 gallons of liquids were removed from RW-1 and MW-5 during this event. Free phase petroleum product was not observed in the holding tank at the end of the event. The fluids produced were transported to Crandall Corporation of Lexington, S.C. for disposal. A disposal manifest for these fluids is attached at the end of this report.

QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assignment are consistent with those normally employed in enhanced fluid recovery events and waste management projects of this type. Contents of this report are intended for the use by MECI and the South Carolina Department of Health and Environmental Control, under mutually agreed upon terms and conditions. If other parties wish to rely on this report please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

Midlands Environmental appreciates the opportunity to offer our professional environmental related services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,
Midlands Environmental Consultants, Inc.

Jeff L. Coleman
Staff Scientist

William C. McClary P.G.
Senior Geologist

Attachments:

TABLE 1B
AFVR MONITORING DATA
GEORGE SOUTHER'S GROCERY
CAMPOBELLO, SOUTH CAROLINA
MECI PROJECT NUMBER 07-1511B
SCDHEC SITE ID NUMBER 08650

Extraction Well	Date	Time (hh:mm)	Differential Time (hr)	Extraction Well Head Vacuum (in. Hg)	Off Gas Measurements: Concentration (PPM)	Offgas Velocity Ft/Min	Flow Rate CFM	Removal Rate Lbs/Hr	Interval Removal Lbs
RW-1	02/26/08	6:45	0.50	11.0	602	1260	113.40	0.82	0.41
MW-5	02/26/08	7:15	0.50	11.0	679	1270	114.30	0.93	0.47
	02/26/08	7:45	0.50	14.0	712	1070	96.30	0.82	0.41
	02/26/08	8:15	0.50	14.0	672	930	83.70	0.67	0.34
	02/26/08	8:45	0.50	17.0	378	1020	91.80	0.42	0.21
	02/26/08	9:15	0.50	17.0	320	1310	117.90	0.45	0.23
	02/26/08	9:45	0.50	17.0	309	1270	114.30	0.42	0.21
	02/26/08	10:15	0.50	17.0	333	840	75.60	0.30	0.15
	02/26/08	10:45	0.50	17.0	389	830	74.70	0.35	0.17
	02/26/08	11:15	0.50	17.0	369	800	72.00	0.32	0.16
	02/26/08	11:45	0.50	17.0	401	800	72.00	0.35	0.17
	02/26/08	12:15	0.50	17.0	851	780	70.20	0.72	0.36
	02/26/08	12:45	0.50	17.0	930	760	68.40	0.76	0.38
	02/26/08	13:15	0.50	17.0	957	750	67.50	0.78	0.39
	02/26/08	13:45	0.50	17.0	848	780	70.20	0.71	0.36
	02/26/08	14:15	0.50	17.0	890	780	70.20	0.75	0.37
	02/26/08	14:45	0.50	17.0	690	770	69.30	0.57	0.29
									TOTAL
									5.08

Well Data: Well No.	Diameter (in)	Total Depth (ft)	Pre AFVR Event: Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Post AFVR Event: Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Corrected Depth to Water Change (ft)
RW-1	4"	30	19.48	20.02	0.54	19.10	19.39	0.29	-0.17
MW-5	2"	19.5	***	18.26	***	***	18.04	***	-0.22

Vacuum Truck Information		Well ID	Stinger Depth
Subcontrator:	MECI	RW-1	20.00
Truck Operator:	R. Garnett	MW-5	10.00
Stack I.D. (feet)	0.33 feet		
Corrected depth to water before AFVR event in RW-1=			19.56

Recovery / Disposal Information		
Hydro carbons Removed (vapor):	5.08	Pounds
Hydro carbons Removed (liquid):	0	Gallons
Total Hydrocarbons Removed:	0.88	Equivalent Gallons
Molecular Weight Utilized:	75	g / mole
Disposal Facility	Crandall Corporation	
Total Liquids Removed:	20	Gallons

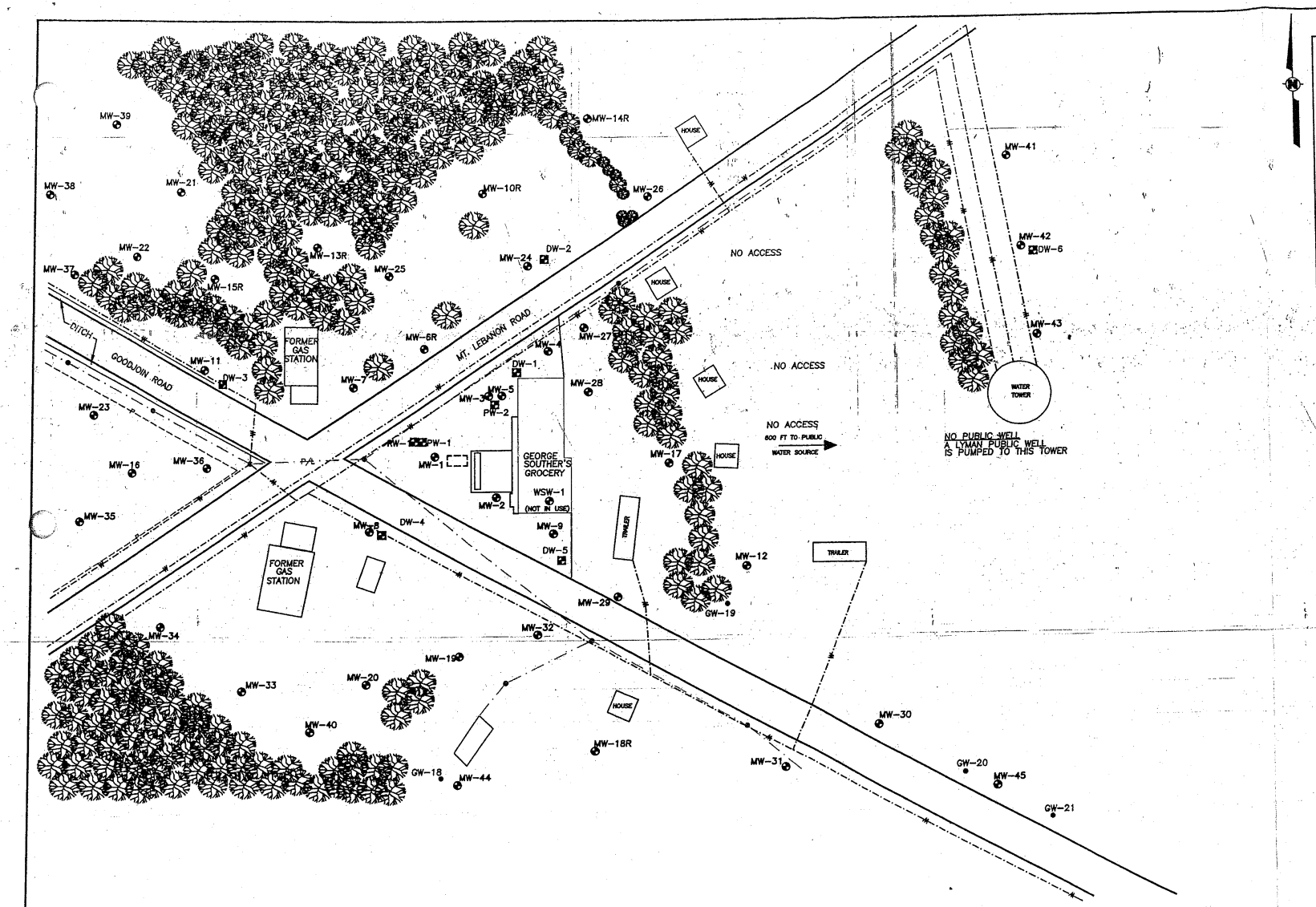
TABLE 1B
DIFFERENTIAL PRESSURE AND GROUNDWATER DRAWDOWN DATA
GEORGE SOUTHER'S GROCERY
CAMPOBELLO, SOUTH CAROLINA
MECI PROJECT NUMBER 07-1511B
SCDHEC SITE ID NUMBER 08650

DIFFERENTIAL PRESSURE DATA

		Well Designation:		
		MW-1	**PW-1**	**PW-2**
Nearest Extraction Well:		RW-1	RW-1	MW-5
Approximate Distance:		30 ft	5 ft.	8 ft
Time	**Elapsed Time**	**Differential Pressure Readings (inches of water)**		
6:45	0.0	0	0	0
7:15	0.5	0	0	0
7:45	1.0	0	0	0
8:15	1.5	0	0	0
8:45	2.0	0	0	0
9:15	2.5	0	0	0
9:45	3.0	0	0	0
10:15	3.5	0	0	0
10:45	4.0	0	0	0
11:15	4.5	0	0	0
11:45	5.0	0	0	0
12:15	5.5	0	0	0
12:45	6.0	0	0	0
13:15	6.5	0	0	0
13:45	7.0	0	0	0
14:15	7.5	0	0	0
14:45	8.0	0	0	0
Maximum Change:		**0**	**0**	**0**

GROUNDWATER DRAWDOWN DATA

		Well Designation:		
		MW-1	**PW-1**	**PW-2**
Nearest Extraction Well:		RW-1	RW-1	MW-5
Approximate Distance:		30 ft	5 ft.	8 ft
Time	**Elapsed Time**	**Depth to Liquid (feet below of casing):**		
Prior toAFVR		16.45	19.78	21.04
10:45	4 hours	16.45	19.80	21.15
14:45	8 hours	16.45	19.84	21.14
Maximum Change:		0.00	-0.06	-0.11



LEGEND

- MONITORING WELL
- PROPOSED MONITORING WELL
- DEEP WELL
- RECOVERY WELL
- VAPOR EXTRACTION TEST WELL
- SOIL BORING
- UST CLOSURE SOIL SAMPLE LOCATION
- GRASS
- CONCRETE
- CURRENT AST
- CURRENT UST
- FORMER UST
- CURRENT UST PIT
- FORMER UST PIT
- DISPENSER ISLAND
- STORM DRAIN DROP INLET
- STORM CULVERT
- DEEP SCREENING POINTS
- TELEPHONE POLE
- MANHOLE COVER
- BORDER
- CHAIN-LINK FENCE
- UNDERGROUND PHONE LINE
- OVERHEAD POWER LINE
- GAS LINE
- SANITARY SEWER LINE
- WATER LINE
- STORM SEWER LINE
- PRODUCT LINE
- FIRE HYDRANT
- TREES

0 100 200

APPROXIMATE SCALE IN FEET

CAD FILE: REC 05-02-015ste.dwg

CONSULTECH ENVIRONMENTAL, INC. Environmental Consulting and Engineering © 1999 Delivering innovative solutions to today's environmental concerns	DRAWN: N.C.L.	DATE: 04/28/06
	UST#: 08650	
	PROJECT: GEORGE SOUTHER'S GROCERY	
	PROJECT No.: 05-02-015	
	LOCATION: CAMPOBELLO, SOUTH CAROLINA	

FIGURE 2
SITE PLAN MAP

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No. 1-9-3-29

2. Page 1 of 1

GENERATOR

3. Generator's Name and Mailing Address
MIDLANDS Environmental
11441 Old Two Notch
Lexington, SC 29073

4. Generator's Phone (803) 808-2043

5. Transporter 1 Company Name
Crandall Corporation

6. US EPA ID Number
SCD981864499

A. Transporter's Phone
(803) 791-4800

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
Crandall Corporation
100 Rich-Lex Dr.
Lexington, SC 29072

10. US EPA ID Number
SCD981864499

C. Facility's Phone
(803) 791-4800

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non-Hazardous Waste, Waste Water	01	TT	2090	G
b.				
c.				
d. Gaffney DOT A(001910) 00gals • Gambrells A(11988) 2100gals • Gaffney DOT B(001910) 00gals • Pfizer Gas mart A(00480) 75gal. • Cracker Box B(18287) 300gals • Minicks Texaco B(07967) 200gal • Richland Co. Landfill A(11808) 1800gal.				

D. Additional Descriptions for Materials Listed Above
Burnett's C(15724) 2000gals • Cooleys Grocery(00420) 800gals • Bay Creek A(18662) 4400gals • Friendly Marks(11693) 800gals • Allendale SCDOT A(00316) 180gal • Mathenevs(00820) 2250gals • Constan 22 A(07871) 1500gals • Lawes Grocery(00420) 00gals • SCDOT Newberry D(10492) 1000gals • SCDOT Newberry E(10492) 1000gals • George Southers B(08650) 200gals

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Service Call ID: GLB0119329
Emergency Response: Infotrac - 800-535-5053
Caller must ID CRANDALL as registrant

16. **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.

Printed/Typed Name | Signature | Month 07 | Day 27 | Year 08

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Shawn DeSpain | Signature | Month 07 | Day 27 | Year 08

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Month | Day | Year

GENERATOR'S COPY

D H E C

PROMOTE PROTECT PROSPER

C. Earl Hunter, Commissioner

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

MR GEORGE SOUTHER
280 GOODJOIN RD
CAMPOBELLO SC 29322

MAR 13 2008

Re: **AFVR Report Review**
George Souther's Grocery, 280 Goodjoin Rd., Campobello, SC
UST Permit # 08650; Release reported December 31, 1991
AFVR Report received March 3, 2008
Spartanburg County

Dear Mr. Souther:

On February 26, 2008, an Aggressive Fluid Vapor Recovery (AFVR) event took place at the referenced facility on wells RW-1 and MW-5. A copy of the report is enclosed. After completion of the event, 0.29 feet of free product was present in RW-1 and no free product was present in MW-5. Additional AFVR events will be conducted. Per your signed permission form, the Underground Storage Tank (UST) Program will continue to coordinate rehabilitation activities on your behalf. Future monitoring reports will be forwarded to you once they have been reviewed.

Also, it has been noted that a water supply well is present at the site, and may no longer be in use. In an effort to assist the Department in monitoring your well, please indicate the usage of your well on the enclosed form. If you are no longer using this well and wish for the Department to have the well properly sealed by a S.C. certified well driller, please indicate this using the attached form. Should you wish to have the well closed, there will be no cost to you. Please return this form to the Department on or before April 15, 2008.

Please feel free to contact me by phone at (803) 896-4078, fax at (803) 896-6245 or email at jaspermj@dhec.sc.gov if you have any questions or need additional information.

Sincerely,

Mike Jaspers, Hydrogeologist
Northeastern SC Corrective Action Section
Assessment and Corrective Action Division
Underground Storage Tank Program
Bureau of Land and Waste Management

enc: AFVR Report
Water Supply Well Information Form

cc: Technical File (w/out enc)

UST PROGRAM
DOCKETING # 8

MJJ/3.12.08

D H E C

PROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

UNDERGROUND STORAGE TANK PROGRAM
BUREAU OF LAND AND WASTE MANAGEMENT
2600 Bull Street
Columbia SC 29201

From: George Souther
195 Goodjoin Rd.
Campobello, SC 29322

RECEIVED
Mike J.
MAR 20 2008
UNDERGROUND STORAGE TANK PROGRAM

WATER SUPPLY WELL INFORMATION FORM

Name of Facility (if appropriate) : Briar Patch

Tax Map Parcel # :

Street Address : 180 Goodjoin Rd

City, State, ZIP : Campobello, SC 29322

Phone number:

1. There is a water supply well located on the above listed property.
   (Yes) No
2. The water supply well is currently in use.
   Yes (No)
3. The water supply well is used as a source of drinking water.
   Yes (No)
4. The water supply well is used for irrigation.
   Yes (No)
5. Is electricity currently connected to the well? Yes (No)
6. The depth of the water supply well is unknown feet.
7. The diameter of the water supply well is unknown inches.

8. Please list any other important information about the water supply well of which the Department should be aware (e.g. well is located in fenced area, pets present, used for filling swimming pool, etc.).
under Building - It is capped

8. I wish to voluntarily have the water supply well properly abandoned (sealed) by a S.C. certified well driller. I understand that this work will be performed at no cost to me. I grant access to SCDHEC and its contractor to conduct this abandonment.
   (Yes) No

Signature: George Souther

Name (please print): George Souther

Witness:

Date: Mar 18, 2008

Permit # : 08650

UST PROGRAM DOCKETING # 9lect